

Intel® Pro Wireless Display (Preproduction)

PV-Release

Setup & Usage Guide

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Revision 1.1

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Revision History

Revision Number	Date	Notes
0.8	August 2014	Initial release.
0.9	September	PC test build release
1.0	October	PC Release Revised WEB interface access IP address ranges for Auto GO and Non-Auto GO Revised default settings with new 2.2.8.1 and later firmware releases Revised test cases to add direction to switch between 2.4/5GHz bands for all test cases.
1.1	October	Moved test cases to the WiDi 5.1 excel test plans
1.2	November	Removed It Admin Tool overview.

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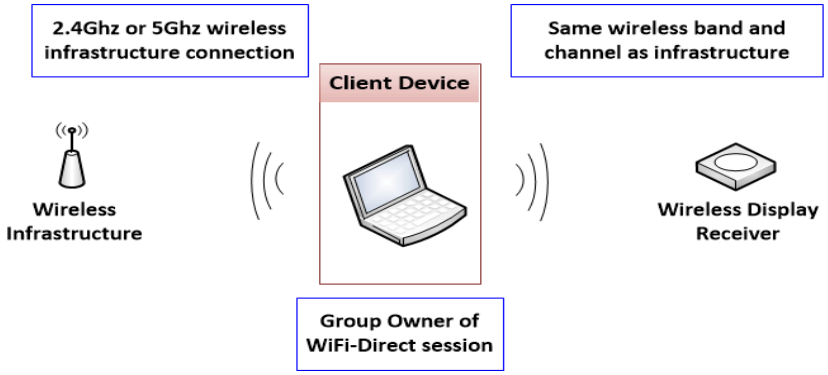
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1 Intel® Pro Wireless Display (WiDi) Overview

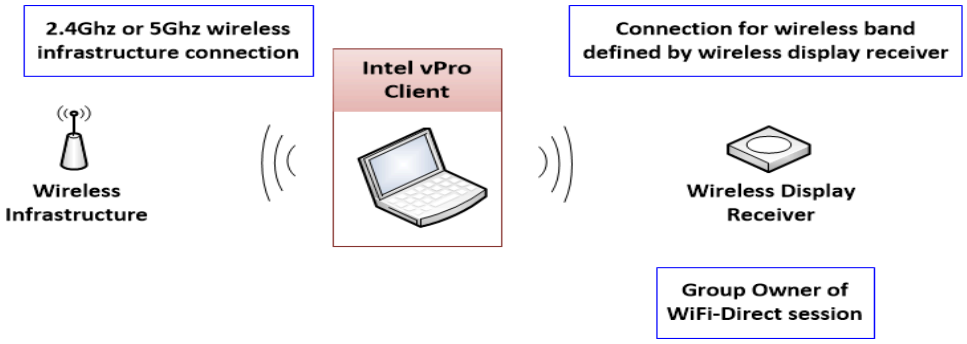
Intel Wireless Display was first introduced for consumer devices. Built upon the WiFi Alliance standard called Miracast, Intel WiDi enabled the use of an HDTV as a second screen via a WiFi Direct connection.

The consumer version shared the same wireless band and channel used for infrastructure communications. The architectural summary as shown below is often appropriate for home or simple wireless infrastructure configurations.



For an enterprise business environment, one immediate difference is that multiple wireless infrastructure access points often exist across multiple wireless channels to provide a seemingly always connected experience for mobile systems. Unlike a consumer wireless environment, an enterprise wireless infrastructure has access to a larger number of wireless channels in the 5 GHz spectrum, including Dynamic Frequency Selection (DFS) channels which are restricted in a Direct WiFi usage model. The Intel Pro WiDi solution accommodates these additional requirements.

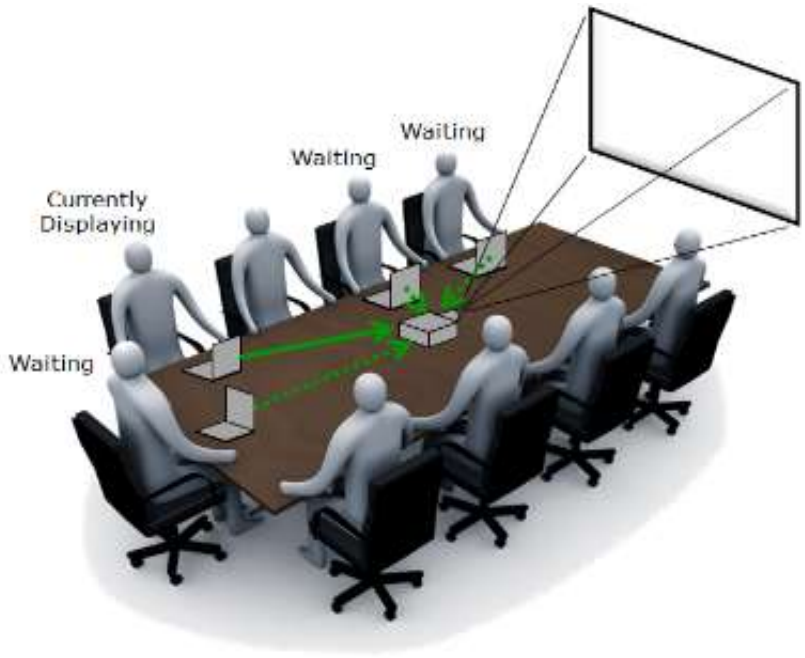
A second important difference in an enterprise environment is that multiple client devices can be connected to the same wireless display Pro receiver device. Instead of sharing the same wireless band and channel as the wireless infrastructure, the Intel Pro WiDi experience for a business enterprise environment enables the wireless display receiver to be the WiFi-Direct group owner, commonly referred to as Autonomous Group Owner (AGO). In this model, the client system must support Different Channel Mode (DCM) to allow two connections on separate wireless bands and channels.



Separately from the wireless connectivity changes, Intel Pro WiDi provides improved security and manageability for Enterprise IT environments. The security enhancements include isolation between infrastructure (i.e. Wireless LAN) and WiFi-Direct (i.e. Wireless PAN) connections and ensuring only wireless display communications are occurring on the WiFi-Direct session. Manageability enhancements includes access to specific settings within the wireless display receiver to customize specific to the target environment.

1.1 Managed Meetings Overview

In a conference room setting with multiple wireless display client systems, Intel Pro WiDi enables a controlled transition of the session from one client PC device to the next. The first Intel vPro client system to connect is designated as the meeting owner and the other wireless display clients devices are meeting participants.



2 Intel® Pro WiDi Requirements

This chapter defines the overall requirements for implementing Intel Pro WiDi. Additional detailed requirement information may be included in the setup sections for individual components.

2.1 Conference Room or Lab

The requirements for the conference room are listed below.

- **Projector or TV/display with VGA or HDMI input ports**: The Actiontec Pro business addition receiver for Intel Pro WiDi connected to the display unit via VGA (using the dongle provided) or directly through HDMI.

2.2 Intel® Pro WiDi Client System and Pro Receiver Requirements

The Intel® vPro™ Technology client system must meet the following requirements for Intel Pro WiDi:

- 5th or 4th Gen Intel® Core™ and Core™ Mobile Processor with Intel® HD Graphics
- Intel® Dual Band Wireless 7260/7265 receiver
- Intel HD Graphics Driver 15.36.9.3995or later release
- *Intel® PROSet/Wireless Driver Test build 17.13 TIC0727 or later release*
- *Intel WiDi Software PV build 5.1.20.0 or later*
- Microsoft* Windows* 7 or 8.1

The Intel® non vPro™ Technology client system must meet the following requirements:

- 5th or 4th Gen Intel® Core™ and Core™ Mobile Processor with Intel® HD Graphics
- Intel® Dual Band Wireless 7260/7265 receiver
- Intel HD Graphics Driver 15.36.9.3995or later release
- *Intel® PROSet/Wireless Driver Test build 17.13 TIC0727 or later release*
- *Intel WiDi Software PV build 5.1.20.0 or later*
- Microsoft* Windows* 7 or 8.1

The Intel® Pro WiDi Receiver Requirements:

- ActionTec ScreenBeam Pro WiDi Business Addition Receiver running the latest Pro WiDi Firmware 2.2.70.0 or later

3 Intel® Pro WiDi Receiver Setup

This chapter explains the steps to setup the Actiontec Screen Beam Pro business addition receiver for Intel Pro WiDi.

3.1 Management Interface

For the purposes of the Beta release, the Local Management access will occur after establishing a wireless display session. An alternative approach not covered in the Beta release is to connect via an Ethernet cable using a USB-to-LAN interface attached to the Actiontec receiver.

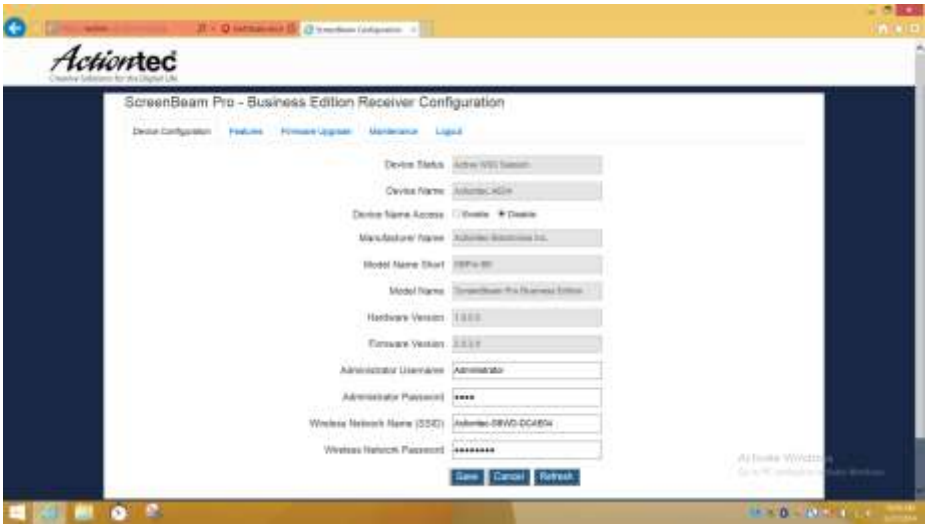
3.1.1 How to Access Local Management Web Interface

1. Power on the Actiontec receiver and connect to a display device. As needed, refer to section 2.1 for Conference Room or test environment requirements.
2. Establish a wireless display session to the device. Refer to section 5 for Windows 7 instructions or section 5.2 for Windows 8.1 instructions.
3. Once connected, open a browser window and type the following IP address range based on Auto GO settings
   - Auto GO Enabled> http://192.168.16.1 (Tip: Auto GO is enabled by Default)
   - Auto GO Disabled> http://192.168.51.1
4. If a Certificate Error warning dialog occurs, select "Continue (not recommended)"

   Login to the Web Interface using the following case sensitive username and password.

   Username: Administrator

   Password: WiDi





3.1.2 Intel Pro WiDi Receiver Management Settings

The tables below summarizes other settings available via the local management interface. Some fields may change on future production releases of the firmware.

Some changes may require the receiver to be restarted for the setting to take effect.

Table 1. Device Configuration Tab

Parameter	Default Value	Read Only	Notes
Device Status	Idle	✓	Idle: No devices are connected Active WiDi Session: One or more devices are connected
Device Name Access	Disable		Enable: Prevents changes to the Device Name. Disable: Allows the Device Name to be changed.
Device Name	Actiontec nnnn		Device name displayed on the WiDi monitor. Acceptable characters include letters, numbers, and most symbols. Symbols not allowed include apostrophe (') and dash (-). **Note:** A best practice is to change the device name to match the conference room name or number and floor where the receiver is located. For example, for conference room HF3 123, the device name might be HF3 123 projector.
Manufacturer Name	Actiontec Electronics Inc.	✓	
Model Name Short	SB Pro BE	✓	
Model Name	ScreenBeam Pro Business Edition	✓	
Hardware Version	1.0.0.0	✓	
Administrator Username	Administrator		The user name can be changed, if desired.
Administrator Password	WiDi		The password can be changed, if desired.
Display Language	English		
NOTE: *Select the "Apply" button to accept the change. The device should be restarted (power cycled) for the changes to take effect.*			

Table 2. Features Tab

Parameter	Default Value	Read Only	Notes
Autonomous Group Owner (AGO)	Enable		Enable: Receiver becomes the group owner, not the client. Required for IT to manage the WiDi channel and frequency. Disable: Client will be the Group Owner. WiDi frequency and channel will be set by the client WiFi connection. If no WiFi connection the default is 2.4 GHz Channel 11.
Managed Meetings*	Enabled		Enabled: Managed Meetings capability is enabled Disabled: Managed Meeting capability is disabled.
Managed Meetings Port*	Port 33033		Port Setting: Range 1024-65535
Require PIN Always**	Disabled		Enabled: Force users to enter a PIN on every connection. Disabled: Defers to "Force PIN Pairing on First Connection" setting.
Force PIN Pairing on First Connection	On		On: PIN is required the first time a user connects. Off: Enables PBC (Push Button Control). Not recommended for Office use. The client will connect automatically without a PIN.
PIN Generation Method	Random		Random: PIN varies each time it is displayed. Static: IT can set a static PIN.
Static PIN	<defined value>		If Static PIN is selected, the administrator can select the first 7 digits of the PIN.
HDMI Port Power Management	HDMI Off after 3minutes		Always On: The receiver will always display the splash screen. Screen Saver: After the wait time is reached floating text will be displayed until a client connects to the receiver. HDMI Off: The receiver will stop displaying to the monitor, but is still active.
Screensaver Wait Time	15 Seconds		Idle Time before the screen saver or blank screen takes effect. Options: 15 / 30 / 45 / 60 seconds or 2 / 10 / 30 minutes
WiDi Lower Bandwidth	Disable		Enable: Reduces WiDi network utilization by reducing quality. Disable: Normal quality.
USB Local Access	Enabled		Enable: Allow USB access. Only Allow Firmware Update: FW updates only Disable: Disable the local USB port
User Input Back Channel (UIBC)	Disable		Enable: Enable USB devices (Cannot be enabled if UoIP is enabled) Disable: Disable USB devices
USB Over IP (UoIP)	Disable		Enable: Enable USB over IP (Cannot be enabled if UIBC is enabled) Disable: Disable USB over IP
TV Screen Size (Overscan Settings)	15		Set video scaling factor. Range 0-15. 15 is the normal setting.
NOTE: *Select the "Apply" button to accept the change. The device should be restarted (power cycled) for the changes to take effect.*			

Note: * Available only when AGO=Enabled. ** Available only when AGO=Disabled.



Table 3. Firmware Upgrade Tab

Parameter	Default Value	Read Only	Notes
Firmware Version	2.1.x.x	✓	This information cannot be changed.
Firmware Update	Disabled	✓	Remote FW update not available
NOTE: *Select the "Apply" button to accept the change. The device should be restarted (power cycled) for the changes to take effect.*			

Table 4. Network Settings Tab

Parameter	Default Value	Read Only	Notes
IP Address	192.168.1.1		Set the Ethernet IP address used for local manageability when using a wired connection. The wired connection is made using a USB NIC.
Subnet Mask	255.255.255.0		Set the Subnet Mask for a wired connection for local manageability.
Channel Bandwidth	20 MHz		20 MHz 40 MHz
Channel Number	2.4 GHz (**40**)		(**2.4 GHz**) 1, 2 , 3, 4, 5, 6, 7, 8,9,10,11 (**5 GHz**) 36, 40, 44, 48, 149, 157, 161, 165 (**<Non DFS Channels**)
Wireless Network Name (SSID)	DIRECT-xy DDnnnn	✓	SSIS suffix (DDnnnn) can be changed. **NOTE:** This setting option is deprecated and will be removed in the release product
Wireless Network Password	12345678		This is the password used to connect to the receiver over WiFi to access the manageability interface. Once connected, IT can use a browser to log in. The Administrator name and password are used to log into the manageability interface. **NOTE:** This setting option is deprecated and will be removed in the release product
NOTE: *Select the "Apply" button to accept the change. The device should be restarted (power cycled) for the changes to take effect.*			

Table 5. Maintenance Tab

Parameter	Default Value	Read Only	Notes
Reboot Receiver	Yes		Select Yes to reboot the receiver
Reset Settings to Factory	Yes		Select Yes to restore the default settings
NOTE: *The action takes effect after pushing the button and replying to the warning message.*			

Table 6. Logout Tab

Parameter	Default Value	Read Only	Notes
Are you sure you want to logout now?	Yes		Select Yes to log out.
NOTE: *The action takes effect immediately after pushing the button. There is no warning message.*			

3.1.3 Example Settings and Configurations

For the purposes of becoming familiar with the local management interface, the following subsections summarize commons settings changes made to the receiver. Start by accessing the Local Management capabilities of the receiver. If a setting or configuration prevents further testing, use the receiver reset button to restore factory defaults.

3.1.3.1 Keep the Display Active

The factory default settings will cause the Actiontec HDMI port to turn off after 15 seconds by design if there is no active wireless display session. If you prefer to see the Actiontec splash screen even when you're not in a WiDi session, perform these steps.

Under the ***Features*** tab, apply the following changes:

- **HDMI Port Power Management**: For ease of use change the setting to either ***Always on*** or ***Screen Saver***.
- **Screensaver Wait Time**: For ease of use change this setting to a value greater than 3 minutes.

After changing a setting click **Apply.**



Click **Refresh** to view the updated data.

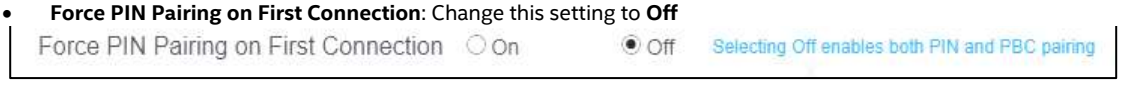
3.1.3.2 Allow Miracast Devices to Connect without Pairing PIN

To simplify the initial pairing process for Microsoft Windows 8.1 clients, perform the steps noted below.

> **NOTE:** If the client device is connected to wireless infrastructure, you may need to disconnect to allow the wireless display session to occur.

Under the ***Features*** tab, apply the following changes: After changing a setting click **Apply.** Click **Refresh** to view the updated data.

- **Force PIN Pairing on First Connection**: Change this setting to **Off**



3.1.3.3 Allow Specific Devices to Pair

When a wireless display session is not active, the default settings allow any device to attempt to pair with the receiver with the pairing PIN shown on the screen. In certain environments, the owner of the wireless display receiver may not want other devices to connect. This setting applies a static PIN.

Under the ***Features*** tab, apply the following changes:

- **Force PIN Pairing on First Connection**: Ensure this setting is **On**
- **PIN Generation Method:** Change to Static and enter a 7-digit value

The Static PIN will appear with an 8 digit generated. The full 8-digit PIN must be entered by any additional devices which attempt to pair with the receiver



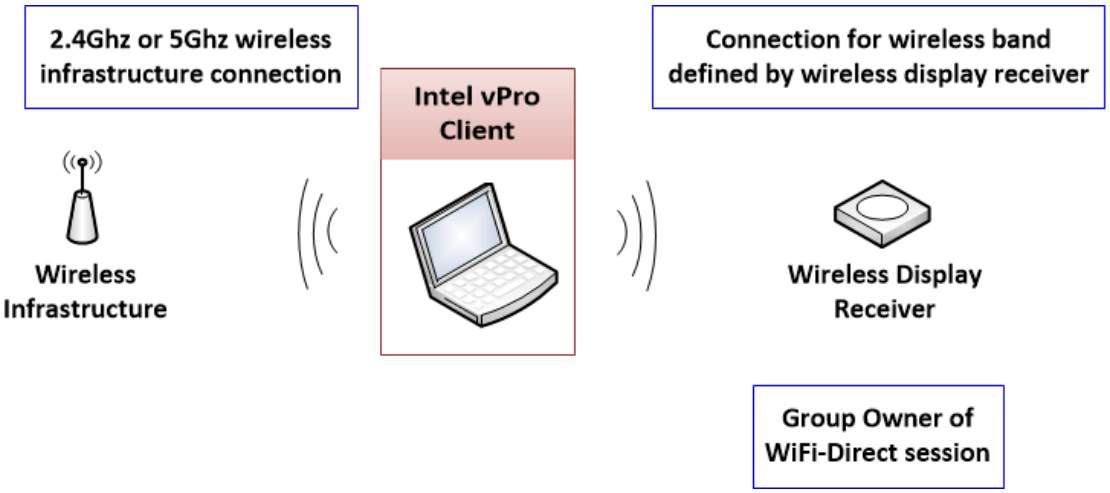
After changing a setting click **Apply.**

Click **Refresh** to view the updated data.

3.2 Different Channel Mode (DCM)

Miracast and Intel WiDi sessions commonly used in a consumer environment will share the same wireless band and channel as used by the infrastructure. A consumer environment often has only one wireless access point with a designated channel. In contrast, a business enterprise environment will commonly have a higher number of wireless client devices associated to a single access point. In addition, a robust enterprise wireless environment will have multiple access points, utilize multiple wireless channels and bands, and even have access to wireless channels not available in a consumer wireless environment. The enterprise only environment may include regulated channels in the 5 GHz band referred to as Dynamic Frequency Selection (DFS). Per regulations, DFS channels cannot be used for WiFi-Direct communications such as Miracast or Intel WiDi.

Due to the higher wireless congestion and overall usage of an enterprise environment, and to enable features such as Managed Meetings, an Intel Pro WiDi enterprise solution supports Different Channel Mode (DCM). DCM allows the client device to maintain two wireless sessions that may occur on different channels in the environment as summarized in the diagram below.





3.2.1 Intel® Pro WiDi Channel Management

In connection with DCM, the Pro WiDi receiver provides the capability to set the wireless frequency and channel that clients must use when they connect to a given wireless display receiver, thereby allowing the IT organization to manage the traffic on their infrastructure. IT can also set the channel bandwidth used by WiDi clients and receivers. It is important to note that channel management is only available if the receiver's Autonomous Group Owner (AGO) setting is "ENABLED" (see the tables in section 3.1.2).

Use the Channel Bandwidth and Channel Number settings to manage the WiDi connections for each receiver (see the tables in section 3.1.2). Try to avoid putting all receivers on one channel which could cause bandwidth issues depending on your WiFi infrastructure. As the bandwidth on a channel becomes saturated, the QoS feature of WiDi will force the WiFi traffic on that channel to throttle back. A good practice is to limit the number of WiDi receivers on a single channel to no more than 3 or 4 devices within a cluster of conference rooms.

4 Intel Pro WiDi User Instructions

WiDi for Windows 7 and Windows 8.1 use different interfaces. With Windows 7 the Connection controls are built into the WiDi application. With Windows 8.1 the connection controls are built into Windows. This guide provides instructions for both Windows 7 and Windows 8.1.

4.1 Connecting to a Wireless Display – Windows 7

The first time you connect to a wireless display, you must "pair" your computer to a wireless display by exchanging a PIN. The second and subsequent connections use the stored pairing information to connect more quickly.

4.1.1 Pairing to a Wireless Display

Use this procedure the first time a computer is connected to a wireless display.

1. **In the Windows 7 Desktop,** double-click the Intel® WiDi icon to launch the Intel® WiDi app.



2. Wait while the Intel® WiDi app scans for available devices.
3. When the scan completes, select the **Actiontec XXXX-SBWD100A** from the list of devices, where XXXX is a unique identifier of numbers and letters found on the device as SBWD-DDXXXX.



4. When prompted, enter the WPS PIN displayed on the target device you are connecting to (i.e., the screen you wish to display on).
5. Click **Continue**.

   NOTE: *Restart this step if not completed before the pairing session timeout.*



The wireless display connects with your computer.

6. When you have finished using the display, click **End Meeting**.

Note: The Meeting Mode options are only available when the WiDi session is established with a vPro enabled system.



4.1.2 Connecting to a Paired Wireless Display

Use these steps for subsequent connections to a wireless display with which the computer has already exchanged a PIN.

1. In the Windows 7 Desktop, double-click the Intel® WiDi icon to launch the Intel® WiDi app.

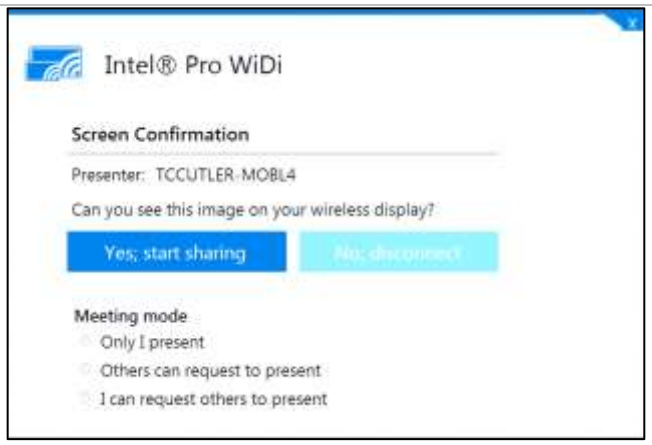


2. Wait while the Intel® WiDi app scans for available devices.
3. When the scan completes, select the desired device.



4. Once connected, a Screen Confirmation window will appear.
5. Click “Yes, start sharing” to project your system’s display to the selected device.
6. The wireless display connects with your computer.

   Note: This screen is only are only available when the WiDi session is established with a vPro enabled system.



7. When you have finished using the display, click **End Meeting**.



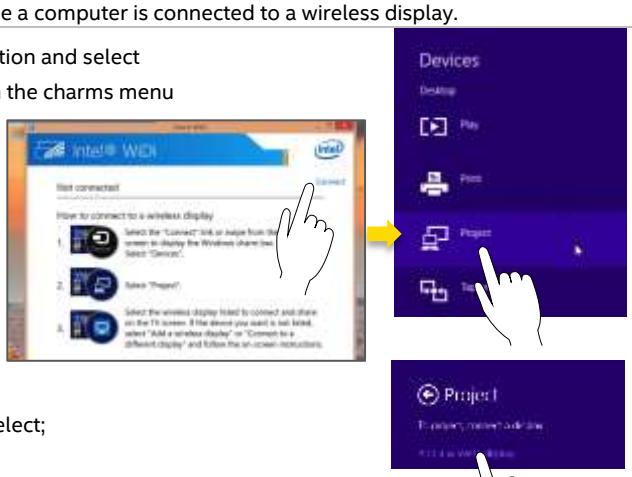
4.2 Connecting to a Wireless Display – Windows 8.1

The first time you connect to a wireless display, you must "pair" your computer to a wireless display by exchanging a PIN. The second and subsequent connections use the stored pairing profile information to quickly connect.

4.2.1 Pairing to a Wireless Display

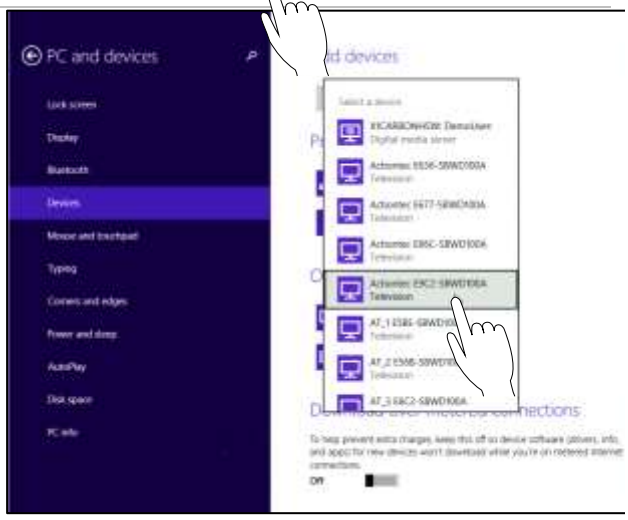
Use this procedure the first time a computer is connected to a wireless display.

1. Launch the WiDi application and select Connect which will open the charms menu and then select **Project**



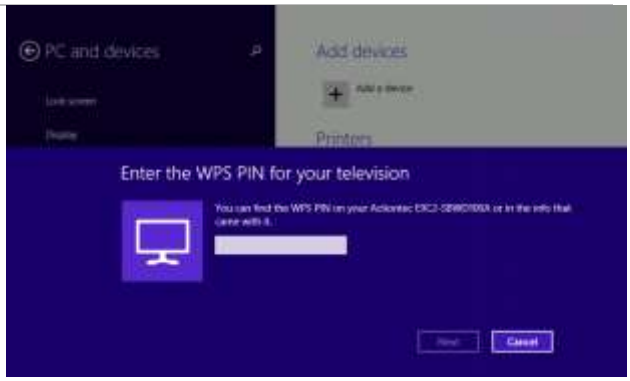
2. In the **Project** sidebar, select; **Add a wireless display**.

3. In the **Add devices** screen, select the targeted **Actiontec XXXX-SBWD100A** from the list of devices, where XXXX is a unique identifier of numbers and letters found on the device as SBWD-DDXXXX.



4. When prompted, enter the WPS PIN displayed on the target device you are connecting to (i.e., the screen you wish to display on).
5. Click **Next**.

   NOTE: *Restart this step if not completed before the pairing session timeout.*



6. **The wireless display connects with your computer.**
7. **At the Screen Confirmation, select "Yes; start sharing"**

   Note: This screen is only displayed on Intel vPro enabled system.

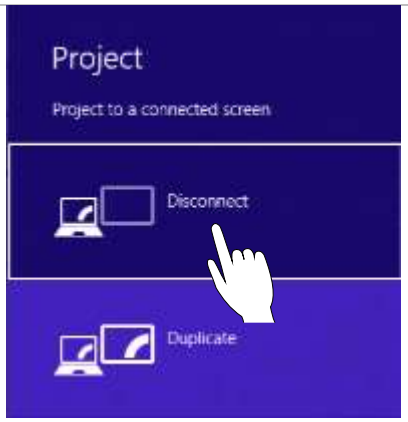


8. Press ⊞+D to return to the Desktop mode
9. The Intel Pro WiDi application opens when an open session is detected.

Note: The Meeting mode screen is only displayed on Intel vPro enabled system.



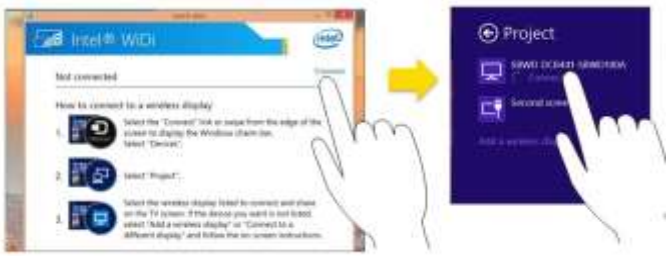
10. When you have finished using the display, press **End Meeting** in the Intel Pro WiDi application or press ⊞+P.
11. On the Project charms bar click **Disconnect**.



4.2.2 Connecting to a Paired Wireless Display

Use these steps for subsequent connections to a wireless display with which the computer has already exchanged a PIN.

12. Launch the WiDi application and select Connect which will open the charms menu and then select **Project**
13. In the Project sidebar, select **Actiontec XXXX-SBWD100A** (the device you paired with in the previous section).



14. Once connected, a Screen Confirmation window will appear.
15. Select “Yes, start sharing” to project your system’s display to the selected device.

Note: This screen is only displayed on Intel vPro enabled system.



16. When you have finished using the display, click **End Meeting**.



5 Using Managed Meetings – Windows* 7 & 8.1

The Managed Meetings feature of Intel Pro WiDi allows meeting participants to transfer the display connection to others in a controlled manner.

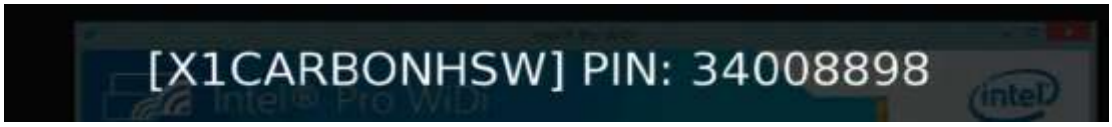
Managed Meetings gives you three modes of connecting to a display:

- **(*Mode1 Exclusive*) Only I present**: only you, the initial connector, can use the display until you disconnect from the display or select a different mode.
- **(*Mode2 Interactive*) Others can request to present**: once others connect to the display, they can request control of the display, which the initial connector can accept or reject.
- **(*Mode3 Moderated*) I can request others to present**: the initial connector becomes the moderator of the display, and can invite others (by computer name) to take control of the display; the moderator can also take back control of the display at any time.

Note1: Two or more client systems will be required for a Managed Meeting mode 2 and 3.

Note2: Only a vPro enabled system can start Meeting modes 2 and 3. Non vPro with WiDi 5.1 systems can join/participate in a session.

Note: It is not necessary to pair to a receiver before joining an active WiDi session in Interactive or Moderated Mode. When pairing during an active session the PIN will appear as an overlay at the top of the wireless display screen. The following is an example



5.1.1 (Mode1) Only I present (Exclusive)

This mode is selected by default when the first user connects to the receiver. The first user to connect is the only one that can select another display mode for that session. In this mode no other users can Pair or connect to the receiver.

Note: Only vPro enabled systems have the ability to select modes. Non vPro systems will automatically connect in Mode1 with no option to change the meeting mode.

5.1.2 (Mode 2) Others can request to present (Interactive)

Follow the steps below to use this mode.

1. Connect to a paired display as explained previously.
2. At the Screen Confirmation, select **Others can request to present**

Note: This screen is only displayed on Intel vPro enabled system.



3. Once connected, the Intel WiDi application will show the Meeting Mode. Other meeting participants can connect to the wireless display receiver.

   NOTE: *The first person to connect has control of the display.*

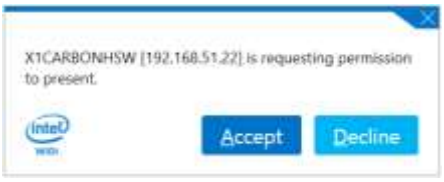


4. Others who are connected will see the screen at right. To request control of the display, click the **Request permission to present** button.



5. The current presenter is shown the request dialog, and can accept or decline the request.

NOTE: If using Windows 8.1 client, the prompt is shown only in Desktop mode.



6. Once the request is accepted, the initial presenter is shown the Request Control screen, and can request control from the current presenter.



7. When finished, the user currently presenting clicks **End Meeting**.
8. All clients will be disconnected from session.



5.1.3 (Mode3) I can request others to present (Moderated)

Follow the steps below to use Moderated Mode.

1. Connect to a paired display as described above.

2. At the Screen Confirmation, choose **I can request others to present** for Meeting mode.

   NOTE: *The first person to connect has initial control of the display and is the Moderator for the entire session. When the Moderator disconnects, all participants are disconnected as well.*

   Once the moderator is connected, the screen shows the number of connected participants (initially 0).

   NOTE: *A maximum of 12 participants can join with the Beta software and firmware.*

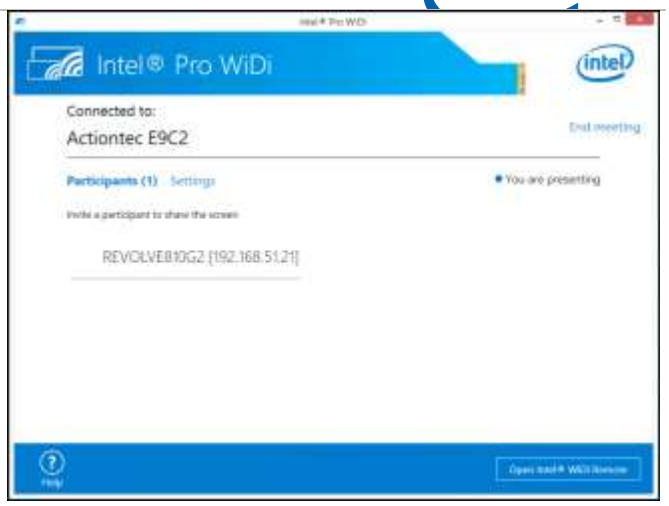
   

3. When other users connect, they will see a screen indicating a managed meeting and current device presenting.

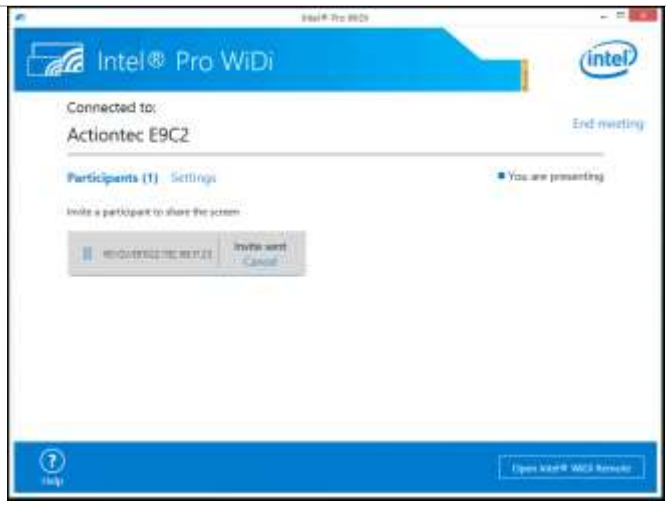
   NOTE: *Other participants cannot request control in Moderated mode. The moderator must invite them to present.*

4. When others join the moderated presentation, the moderator's screen shows the number of participants.



5. To invite another participant to present, the moderator clicks the participant's computer name.



6. The invited participant will see prompt to **Accept** or **Decline**.

   NOTE: If using Windows 8.1 client, the prompt is shown only in Desktop mode.



7. When the invited participant starts sharing, the moderator's screen shows which participant is currently sharing, indicated by a blue dot next to that participant's computer name.

   To retrieve control of the display, the moderator simply clicks **Start Presenting** at top right.

   NOTE: *The moderator can invite another participant to display while a given participant is displaying.*



8. When the moderator selects **End Meeting**, all participants are disconnected as well.

