

Intel® Pro Wireless Display

Gen6 PV-Release

Setup & Usage Guide

September 2015

Revision 0.6

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Revision History

Revision Number	Date	Notes
0.1	March 2015	Initial release.
0.2	March 2015	Revised adapter setting details.
0.3	May 2015	Revised adapter setting details, new UI Screens for Windows* 10.
0.4	May 2015	General clean up.
0.5	July 2015	General clean up, revised adapter setting details, new UI Screens.
0.6	September 2015	Revised adapter setting details.

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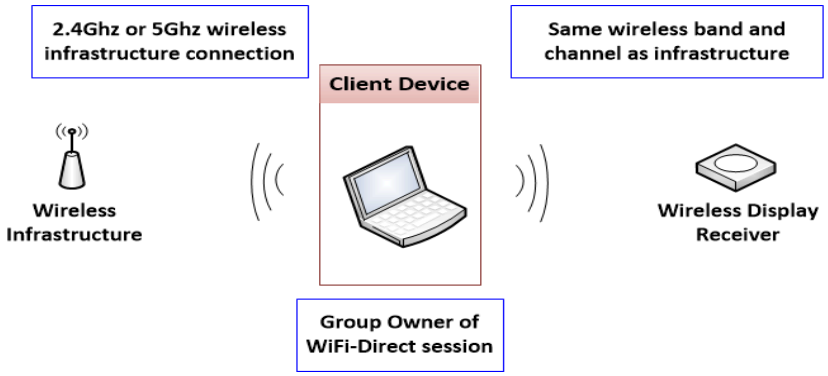
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1 Intel® Pro Wireless Display (WiDi) Overview

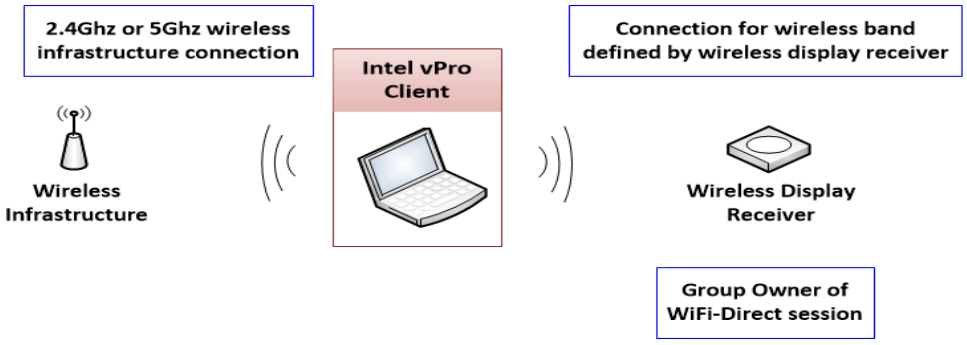
Intel Wireless Display was first introduced for consumer devices. Built upon the WiFi Alliance standard called Miracast, Intel WiDi enabled the use of an HDTV as a second screen via a WiFi Direct connection.

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.

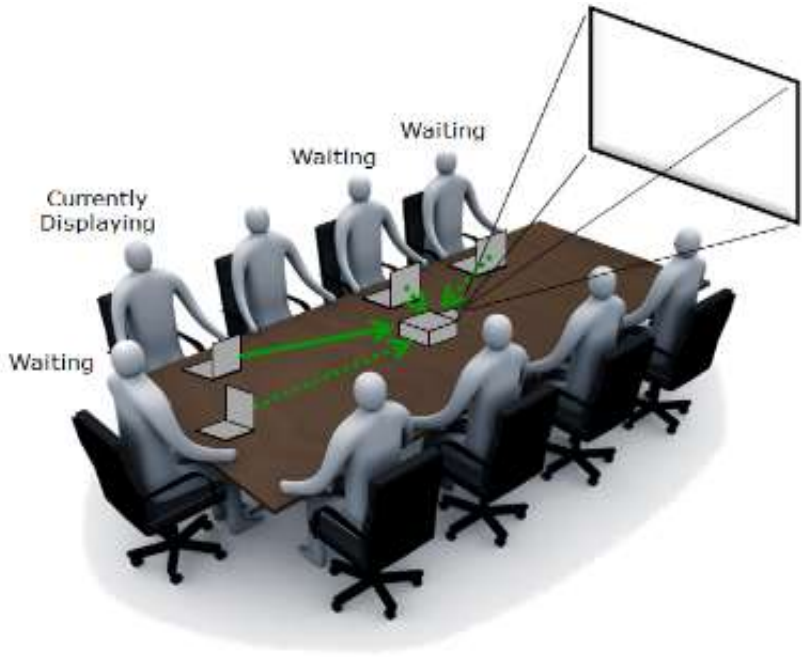
A second important difference in an enterprise environment is that multiple client devices can be connected to the same wireless display Pro receiver device. Instead of sharing the same wireless band and channel as the wireless infrastructure, the Intel Pro WiDi experience for a business enterprise environment 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. A meeting session begins when a client system connects to a Pro WiDi receiver and automatically joins the meeting as a participant. By default, the meeting starts in “Interactive” mode which means any participant can start to present at any time. However, a participant that is currently presenting may also choose to present “Exclusively” by blocking others from presenting. During an “Interactive” session, any vPro participant may choose to become the “Moderator” to manage the meeting. For e.g. designate a participant to become a presenter or stop someone from presenting at any time. A meeting may change between different meeting modes back and forth and ends when all participants are disconnected from the Pro WiDi receiver.



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:

- 6th / 5th or 4th Gen Intel® Core™ and Core™ Mobile Processor with Intel® HD Graphics
    - Intel® Dual Band Wireless 7260/7265 receiver
    - Latest Intel HD Graphics Driver 15.36/15.40 baseline release
    - Latest Intel® PROSet/Wireless Driver build 18.x baseline release
    - Latest Intel WiDi Software 6.x baseline release
    - Latest Microsoft* Windows* 7/8.1/10 and all patches
- Cherry Trail for business with Intel® HD Graphics
    - Intel® Dual Band Wireless 7265
    - Latest Intel HD Graphics Driver 15.38/15.40 baseline release
    - Latest Intel® PROSet/Wireless Driver build 18.x baseline release
    - Latest Intel WiDi Software 6.x baseline release
    - Latest Microsoft* Windows* 8.1/10 and all patches

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

- 6th / 5th or 4th Gen Intel® Core™ and Core™ Mobile Processor with Intel® HD Graphics
    - Intel® Dual Band Wireless 7260/7265/3165 receiver
    - Latest Intel HD Graphics Driver 15.36/15.40 baseline release
    - Latest Intel® PROSet/Wireless Driver build 18.x
    - Latest Intel WiDi Software 6.x baseline release
    - Microsoft* Windows* 7/8.1/10
- Cherry Trail or Braswell with Intel® HD Graphics
    - Intel® Dual Band Wireless 7265 or Broadcom* Wireless BCM4356
    - Latest Intel HD Graphics Driver 15.38/15.40 baseline release
    - Latest Intel® PROSet/Wireless Driver build 18.x baseline release
    - Latest Intel WiDi Software 6.x baseline release

      Latest Microsoft* Windows* 8.1/10 and all patches

The Intel® Pro WiDi Receiver Requirements:

- Actiontec ScreenBeam Pro WiDi Business Addition Receiver running the latest Pro WiDi Firmware 2.11.x or later

3 Intel® Pro WiDi Receiver Setup

This chapter explains the steps to setup the Actiontec ScreenBeam Pro business edition receiver for Intel Pro WiDi.

3.1 Management Interface

The Actiontec ScreenBeam Pro business edition receiver can be managed via local web interface while directly connected or remotely over the network (such as company network) via USB to Ethernet/WLAN dongle. This document provides basic info on the local management web interface. Refer to Actiontec's user's manual for more details on remote management interface if needed.

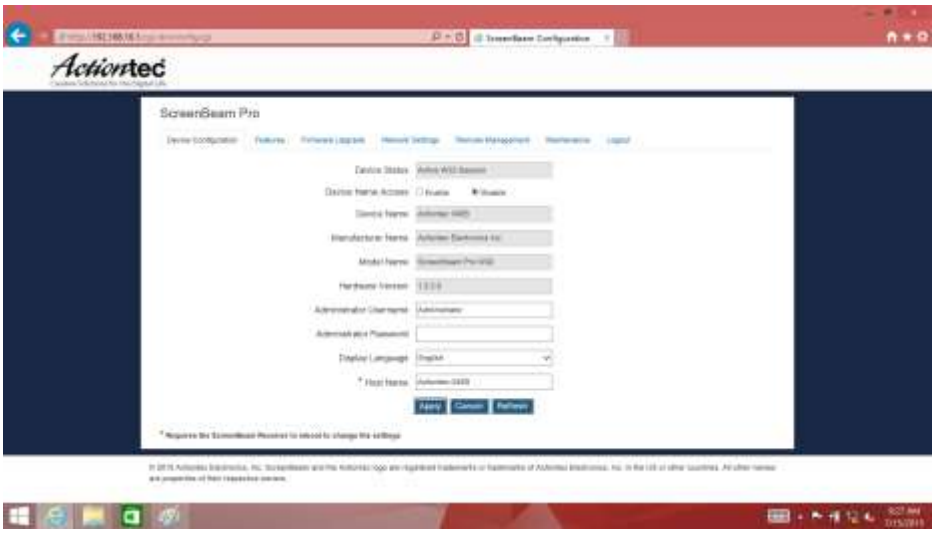
3.1.1 How to Access Local Management Web Interface

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 4.1 for Windows 7 instructions, section 4.2 for Windows 8.1 instructions or section 4.3 for Windows 10 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	N/A	✓	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. **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	ScreenBeam Pro WiDi	✓	
Hardware Version	1.2.2.0	✓	
Administrator Username	Administrator		The user name can be changed, if desired.
Administrator Password	WiDi		The password can be changed, if desired.
Display Language	English		
Host Name	Actiontec-nnnn		
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
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
Managed Meetings Inactive Source Grace Period	10		Set the time (in seconds) the receiver will wait before starting to present automatically when WiDi 6.x application is not available on the connected source PC. Range 1-30

Parameter	Default Value	Read Only	Notes
Managed Meetings Modes Disabled*	Nothing is disabled		Nothing is disabled: Moderated mode is disabled:
Force PIN Pairing on First Connection*	On		On: PIN is required the first time a user connects. Off: Enables PBC (Push Button Configuration). 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/VGA Port Power Management	Always On		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. Display Off: The receiver will stop displaying to the monitor, but is still active.
(Screensaver) Wait Time	180		Idle Time in seconds before the screen saver or blank screen takes effect.
WiDi Lower Bandwidth	Disable		Enable: Reduces WiDi network utilization by reducing quality. Disable: Normal quality.
Force EDID at RTSP M3	Disable		Enable: Enables correct reporting of supported resolutions when using the HDMI-VGA dongle converter.
HDCP Encryption*	Enabled		Enable: Enables support for premium content. Disable: Disables support for premium content.
VGA Compatibility Mode	Disable		Enabled: Enables correct reporting of supported resolutions when using the HDMI-VGA dongle converter. Option to set 1080 or 720 resolution.
USB Local Access	Disabled		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)	25		Set video scaling factor. Range 0-25. “Allow source device to override overscan value” is disabled by default.
Aspect Ratio	16:9		Set display aspect ratio. Other aspect ratios options are 16:10 and 4:3
Horizontal / Vertical Offset	0 / 0		Control offset by entering a number value between -5000 and 5000. Setting only available for aspect ratio 4:3
One Touch Play (HDMI-CEC)	Off		On: Enables CEC One Touch Play Off: Disables CEC One Touch Play
Background Image	Factory		Used for the ready to connect screen. Option to load alternative image.

Parameter	Default Value	Read Only	Notes
Screen Saver Image	Factory		Used for screen saver. Option to load alternative image.
NOTE: *Select the "Apply" button to accept the change. Items marked with * require the receiver to (power cycled) to apply changes.*			

Table 3. Firmware Upgrade Tab

Parameter	Default Value	Read Only	Notes
Firmware Version	2.11.x.x	✓	This information cannot be changed.
Firmware Update	Disabled		Enabled: Allows for remote firmware updates. Disabled Does not allow for remote firmware updates.
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
Show network information on TV screen	Disable		Enable: Show network information on the Ready to connect screen. Disable: Hide network information on the Ready to connect screen.
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.
P2P IP Address	192.168.16.1		Set the P2P IP address.
P2P Subnet Mask	255.255.255.0		Set the Subnet Mask for the P2P interface.
P2P DHCP IP Start	192.168.16.2		Defines the starting IP Address range used for DHCP.
P2P DHCP IP End	192.168.16.254		Defines the Ending IP Address range used for DHCP.
P2P Wireless Network Name (SSID)	DIRECT-xy DDnnnn		SSID suffix (DDnnnn) can be changed.
P2P Wireless Network Password	12345678	✓	This is the password used to connect to the receiver over P2P WiFi connection 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
Channel Number	2.4 GHz (**11**)		(**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**)
NOTE: *Select the "Apply" button to accept the change. The device should be restarted (power cycled) for the changes to take effect.*			

Table 5. Remote Management Tab

Parameter	Default Value	Read Only	Notes
Wireless Connection Property Settings	Network Name Security Type Status		Wireless connection settings for remote management interface. Requires optional USB wireless dongle.
IP Assignment	Auto		Auto: Obtain IP address from network DHCP server. Static: Use static IP address for the remote management interface.
IP Address	<defined value>		Set the IP address for the remote management interface.
Subnet Mask	<defined value>		Set the subnet mask for the remote management interface.
Default Gateway	<defined value>		Set the default gateway for the remote management interface.
DNS Assignment	Auto		Auto: Obtain IP address of DNS server from the network DHCP server. Static: Use static IP address for DNS server.
Preferred DNS Server	<defined value>		Preferred DNS server IP address.
Alternated DNS Server	<defined value>		Alternated DNS server IP address.
CMS Server	aeisbcms		Hostname for the CMS server.
CMS Communication Port	7237		Port setting: Range 5000-65535
NOTE: *The action takes effect after pushing the button and replying to the warning message.*			

Table 6. Maintenance Tab

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

Table 7. Logout Tab

Parameter	Default Value	Read Only	Notes
Are you sure you want to logout now?	N/A		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.

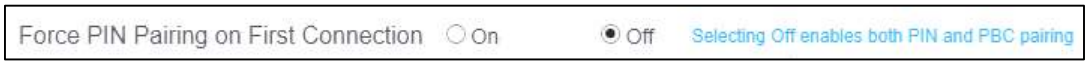
3.1.3.1 Allow Miracast Devices to Connect without Pairing PIN

To simplify the initial pairing process for Microsoft Windows 8.1/10 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.

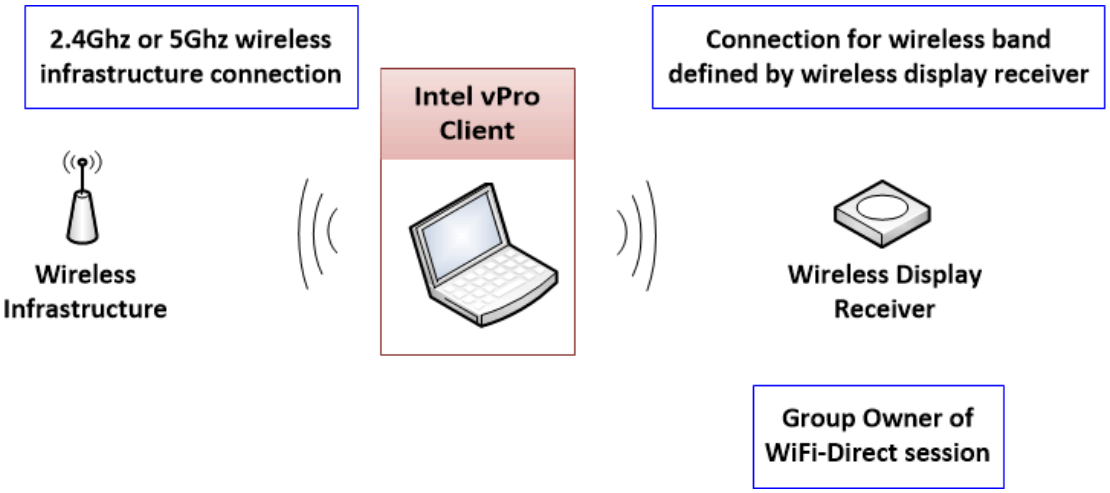
- **Force PIN Pairing on First Connection**: Change this setting to **Off**



3.2 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 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 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 8.1/10 use different interfaces. With Windows 7 the Connection controls are built into the WiDi application. With Windows 8.1/10 the connection controls are built into Windows. This guide provides instructions for both Windows 7 and Windows 8.1/10.

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.

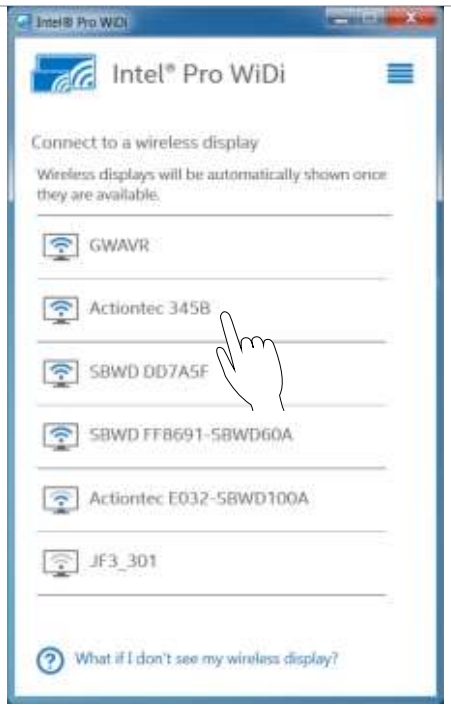
4.1.1 Pairing to a Wireless Display

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** from the list of devices, where XXXX is a unique identifier of numbers.



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.*

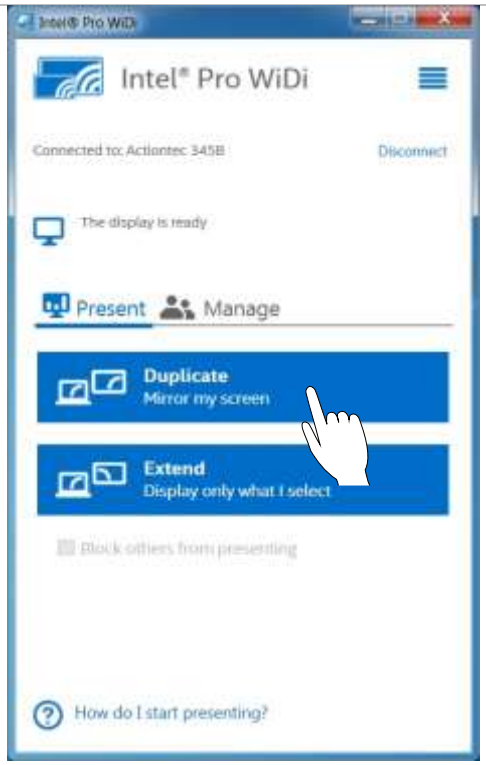




6. Once connected, a **Ready to Present** screen will appear on the remote screen.



7. Click "**Duplicate**" or "**Extend**" to project your system's display to the selected device.
8. Your system's screen starts to show on the remote screen with the selected display mode..



9. When you have finished using the display, Select "**Disconnect"**.
10. You can also stay connected but stop presenting if desired by simply selecting the **"Stop Presenting"** menu option.



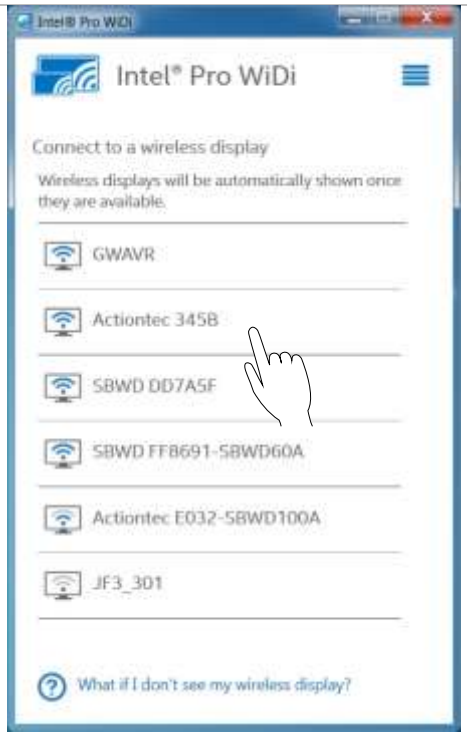
4.1.2 Connecting to a Paired Wireless Display

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.

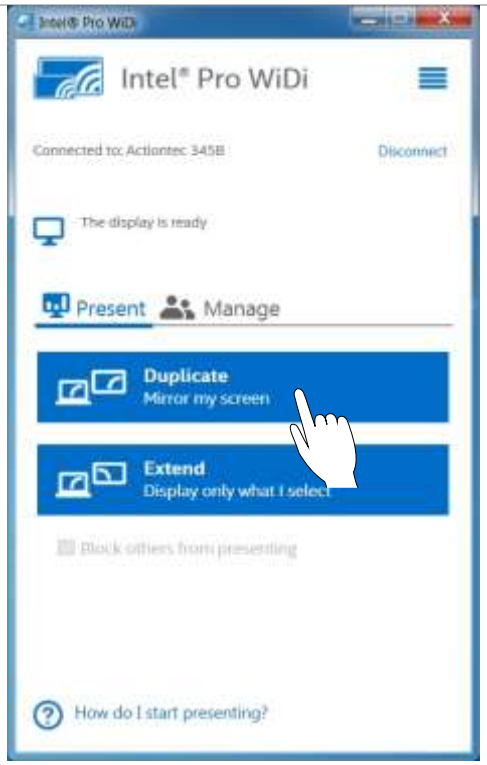




4. Once connected, a **Ready to Present** screen will appear on the remote screen.



5. Click "**Duplicate**" or "**Extend**" to project your system's display to the selected device.
6. Your system's screen starts to show on the remote screen with the selected display mode



7. When you have finished using the display, select "**Disconnect".**



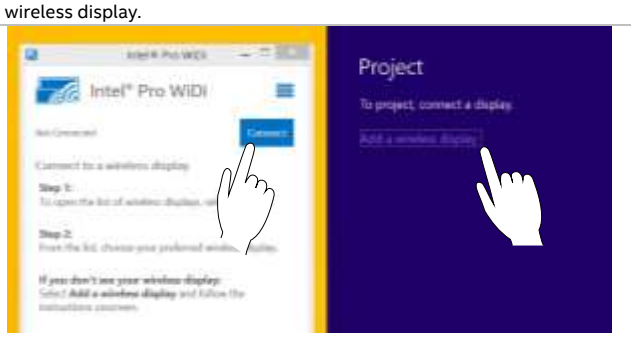
4.2 Connecting to a Wireless Display – Windows 8.1

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.

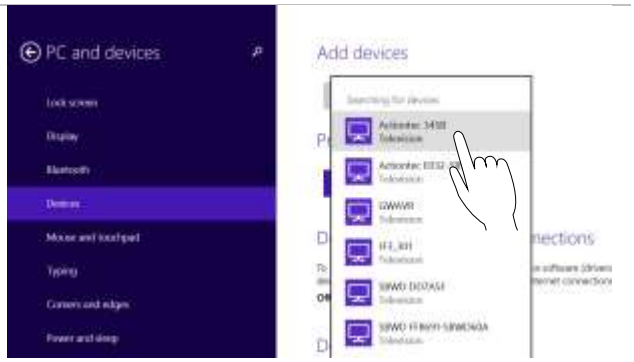
4.2.1 Pairing to a Wireless Display

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

1. Launch the Intel WiDi application and select Connect which will open the **Project menu**
2. In the **Project** menu, select; **"Add a wireless display"**.

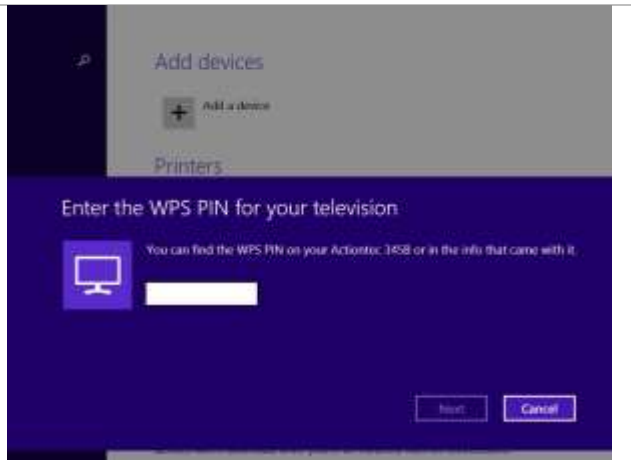


3. In the **Add devices** screen, select the targeted **Actiontec XXXX** from the list of devices, where XXXX is a unique identifier of numbers.



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**.

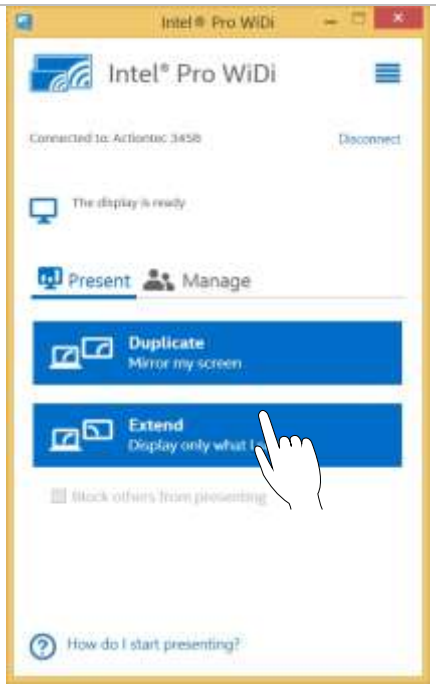
NOTE: *Restart this step if not completed before the pairing session timeout.*



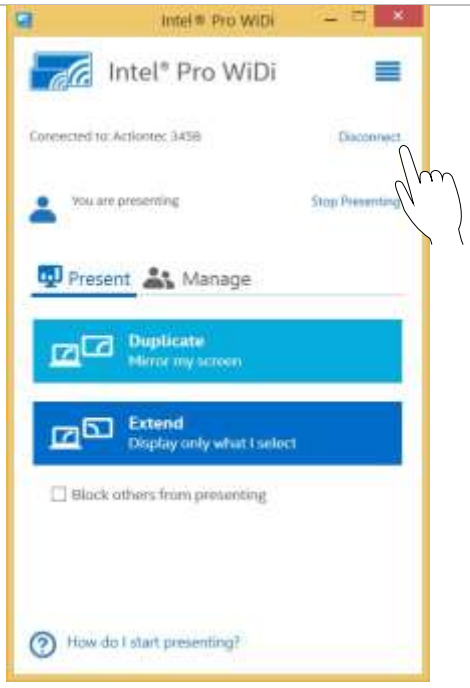
6. Once connected, a **Ready to Present** screen will appear on the remote screen.



7. Press ⊞+D to return to the Desktop mode
8. . Click "**Duplicate**" or "**Extend**" to project your system's display to the selected device.



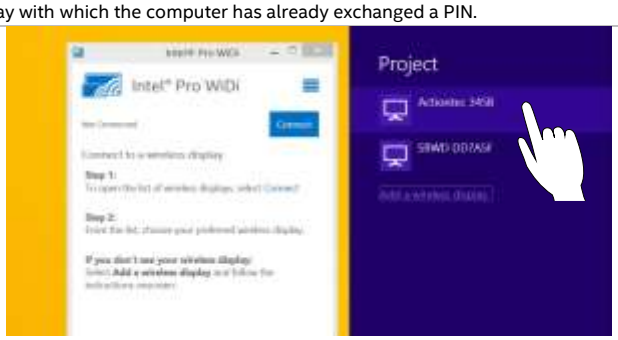
9. When you have finished using the display, press "**Disconnect**" in the Intel WiDi application or press ⊞+P and choose "Disconnect".



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.

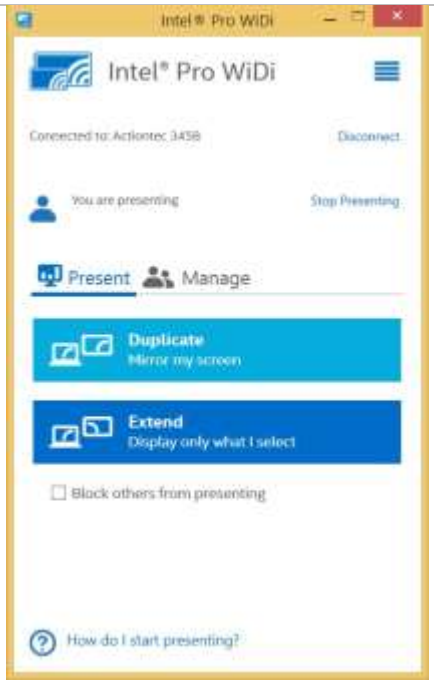
10. Launch the Intel WiDi application and select Connect which will open the **Project menu.**
11. In the Project menu, select **Actiontec XXXX** (the device you paired with in the previous section).



12. Once connected, a **Ready to Present** screen will appear on the remote screen.



13. Click "**Duplicate**" or "**Extend"** to project your system's display to the selected device.
14. Your system's screen starts to show on the remote screen with the selected display mode
15. When you have finished using the display, Select "**Disconnect"**.



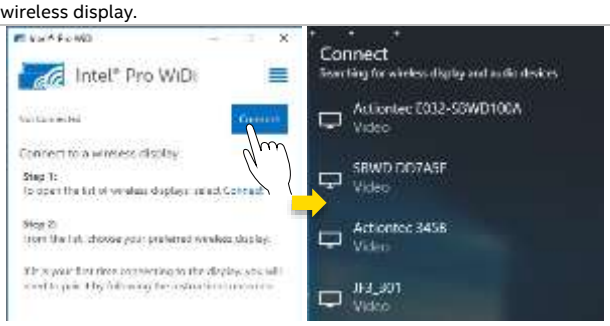
4.3 Connecting to a Wireless Display – Windows 10

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.

4.3.1 Pairing to a Wireless Display

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

1. Launch the Intel WiDi application and select Connect which will open the **Connect** Menu in **Action Center**.

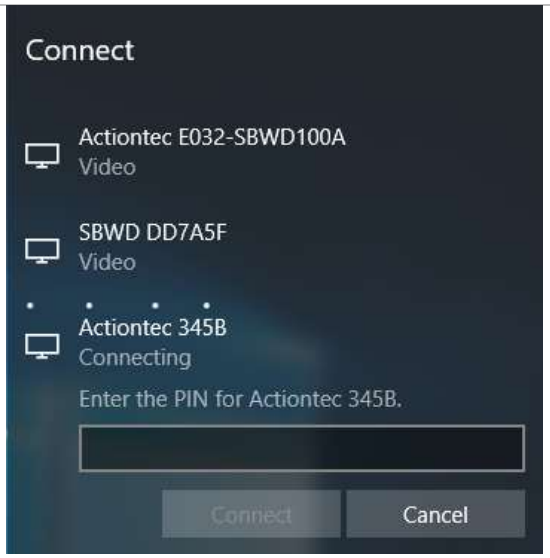


2. In the **Connect** menu, select the targeted **Actiontec XXXX** from the list of devices, where XXXX is a unique identifier of numbers.



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

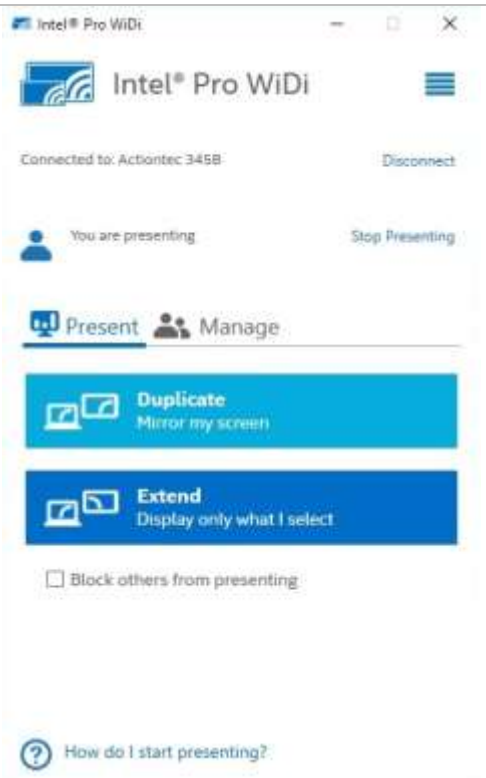
   NOTE: *Restart this step if not completed before the pairing session timeout.*



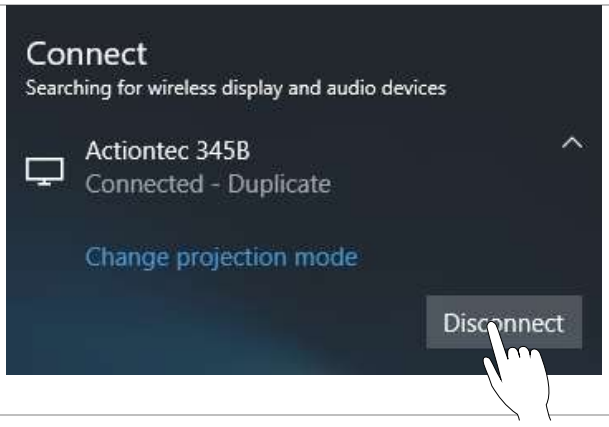
5. Once connected, a **Ready to Present** screen will appear on the remote screen.



6. Click "**Duplicate**" or "**Extend**" to project your system's display to the selected device.



7. When you have finished using the display, press **Disconnect** in the Intel WiDi application or press +K to open the Connect menu and click "**Disconnect**".



4.3.2 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.

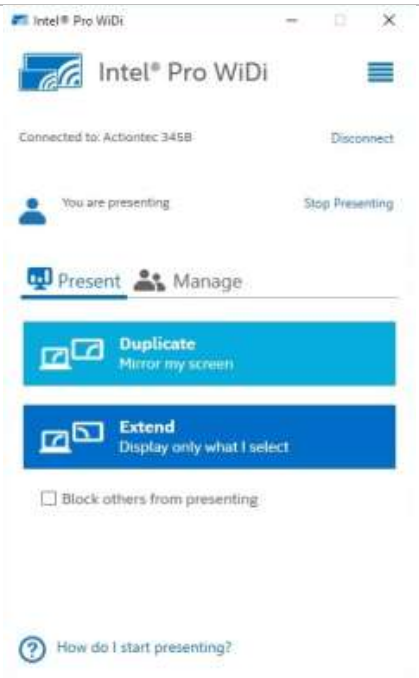
1. Launch the Intel WiDi application and select **Connect** which will open the **Connect** menu in the **Action Center**.
2. In the Media Connect sidebar, select **Actiontec XXXX** (the device you paired with in the previous section).



3. Once connected, a **Ready to Present** screen will appear on the remote screen.



4. Click "**Duplicate**" or "**Extend**" to project your system's display to the selected device.
5. Your system's screen starts to show on the remote screen with the selected display mode.
6. When you have finished using the display, Select "**Disconnect**".



4.4 Using Managed Meetings – Windows* 7 / 8.1 / 10

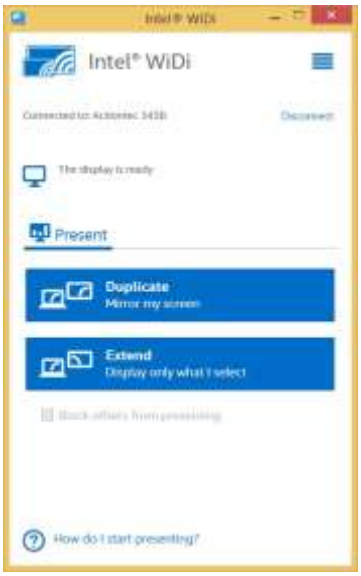
The Managed Meetings feature of Intel Pro WiDi allows meeting participants to transfer the display connection to others in a controlled manner.

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

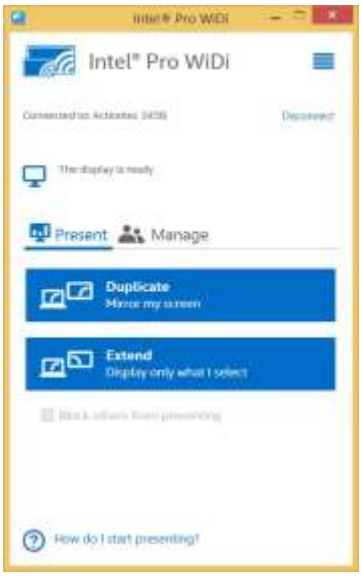
- **(*Mode1 Interactive*) is the default mode.**
- **(*Mode2 Managed*) I can request others to present**.

Note1: Two or more client systems will be required to experience Managed Meeting mode 1 and 2 interactions.

Note2: Mode2 Managed and the "Manage" tab feature are only available on vPro or Cherry Trail for business based systems



UI of non Pro WiDi client system



UI of Pro WiDi client system

Note3: It is not necessary to pair to a receiver before joining an active WiDi session in Interactive or Managed 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



4.4.1 (Default Meeting Mode) is Interactive

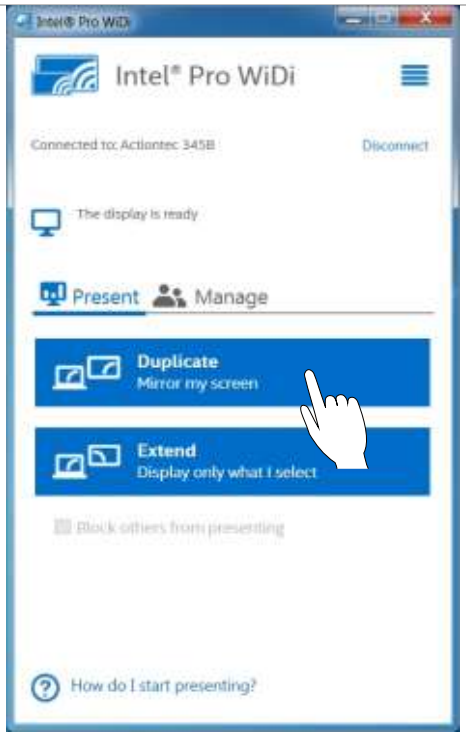
This mode is selected by default when the first user connects to the receiver.

Follow the steps below to use this mode.

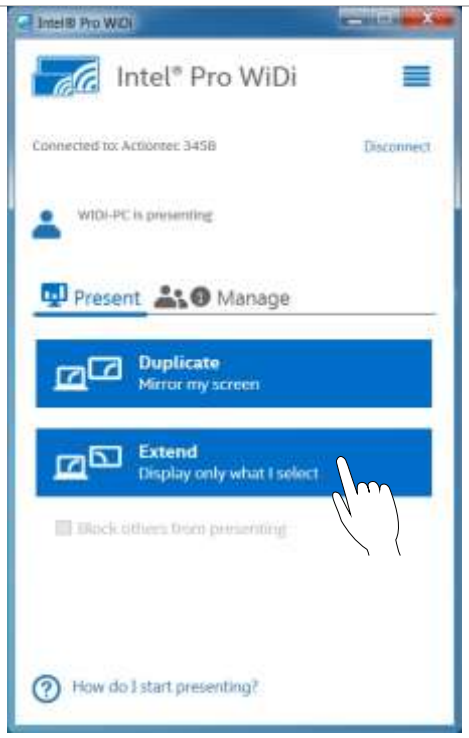
1. Connect to a paired display as explained previously and a **Ready to Present** screen will appear on the remote screen.



2. After the Ready to present screen is shown select "**Duplicate**" or "**Extend**" to start to present.
3. By default, the meeting starts in **interactive mode** which means other meeting participants can connect to the wireless display receiver and can start presenting at any time.



4. Others who are connected will see the screen at right. To start presenting, click "**Duplicate**" or "**Extend**".



4.4.2 (Meeting Mode2) I can request others to present (Managed)

Note: This meeting mode option is only available on a vPro or Cherry Trail for business platforms.

Follow the steps below to use Moderated Mode.

1. Connect to a paired display as explained previously and a **Ready to Present** screen will appear on the remote screen.



2. Open the "**Manage**" tab, check "**Manage the display**" to become the moderator.

   NOTE:
   Any vPro or Cherry Trail for business platform can start to "Manage the display" (become the moderator) at any time for an interactive meeting.

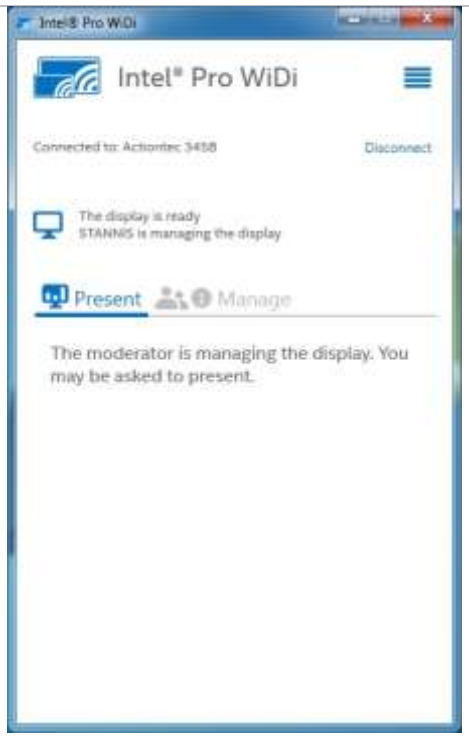
   The number besides the "Manage" tab shows the number of connected participants (initially 0).

   NOTE: *The maximum number of participants is 16.*



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 session, the moderator's can view the participants by selecting the pull-down menu and select which person to become the active presenter.



5. The person that has been given the presenter rights will see the status changed to “You are the presenter” and the “Present” tab becomes available.
6. To start presenting, select “**Duplicate**” or “**Extend**”.

