Configuring Multiple Displays

Technical Brief

Document Version 1.2

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Chapter 1 Preface

This chapter provides general information about the document.

Intended Audience

This document is targeted at system administrators required to manage Xcalibur Global software and Chip PC thin client devices.

Scope

This document is applicable to the following product versions:

- Xcalibur Global, Version 1.1, Revision 2 + Service Pack 2
- ChipPC client device firmware, Version 6.5.4

Objectives

The objective of this document is to provide the technical knowledge and understanding that is required to correctly and to effectively use multiple display devices on a Chip PC client device.

Prerequisites

This document assumes that the reader has at least a mid-level technical understanding in the following areas:

- Xcalibur Global management in general and the use of Xcalibur Global policies in particular
- Chip PC client device configuration

Reference Materials

- Xcalibur Global - Administrator's Guide, Ref: DG018U
- Image 6.5.x for Chip PC Thin Clients – User Manual, Ref: DM019U

Document Features

Conventions

Bold formatting is used to indicate a product name, required selection or screen text entries.

Caution	Text marked **Caution** contains warnings about possible loss of data.

Important	Text marked **Important** contains information that is essential to completing a task.

Note Text marked **Note** contains supplemental information.

Chapter Overview

This document is divided into the following chapters:

- Chapter 1, “Preface”, provides general information about the document.
- Chapter 2, “Introduction”, introduces the different display types, terminology and video technologies supported by Chip PC client devices.
- Chapter 3, “Multiple Display Options”, describes the various configuration options available on Chip PC client devices that support multiple displays.
- Chapter 4, “Configuring Multiple Display Options”, explains how to configure the multiple display options on the client device and via Xcalibur Global.
- Appendix A, “Plug-in Support for Multiple Displays”, covers the configuration options for multiple displays that are available in the settings of some of the plug-ins.
- Appendix B, “A ‘Quad’ Client with Two Display Devices”, explains the configuration possibilities available when connecting two display devices, each to a separate socket on a “Quad” client.

Chapter 2 Introduction

This chapter introduces the different display types, terminology and video technologies supported by Chip PC client devices.

Video Signals and Display Types

Chip PC client devices support the following types of video signals and their corresponding display types:

- Analog signal – used by CRT screens, analog projectors, etc.
- Digital signal – used by LCD screens, digital projectors, etc.

Note Some digital devices can also work with an analog signal.

Display Sockets

Two types of display sockets are used on the Chip PC client devices:

- VGA – this is the standard socket for connecting Analog display devices.
- DVI - this is the standard socket for connecting Digital display devices.

VGA Connector

DVI Connector

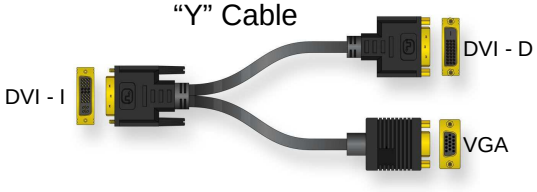
DVI Socket types

DVI sockets are capable of integrating an additional Analog signal together with the standard Digital signal.

- DVI sockets that only support a Digital signal are referred to as **DVI-D** sockets.
- DVI sockets that integrate both a Digital and an Analog signal are referred to as **DVI-I** sockets.

Connecting Two Display Devices to a Single DVI-I Socket

Due to the nature of the DVI-I socket, it is possible to connect two display devices to a single DVI-I socket. This is achieved with the help of a special “Y” cable that splits the DVI-I into two separate DVI-D and VGA sockets.



Dual & Quad Client Devices

Chip PC client devices supporting multiple displays are available in two categories:

- “Dual” client devices support up to two displays.
- “Quad” client devices support up to four displays

Working with Multiple Displays

When using multiple displays, there are two primary “display behavior” modes:

- Mirror – Each display duplicates, “mirrors”, the behavior of the other display.
- Append – The screens are combined into one long extended screen. Each display is appended to the right edge or the previous display.

It is possible to configure multiple screens to use a combination of the above methods.

Desktops

When appending displays the first desktop on the left will be the primary desktop. The second display, appended to the right edge of the primary desktop will be the secondary desktop.

- Primary desktop – By default plug-ins, system dialog boxes, system messages, and icons will appear in this display.
- Secondary desktop – Some of the device settings support the option of redirecting system messages and dialogs to the secondary desktop. Some plug-ins can also be configured to open in the secondary desktop.
- Additional desktops – these may be available appended to the right edge of the secondary desktop.

It is possible to drag windows across the desktops and some plug-ins can be expanded over all the desktops.

Supported Product Models

The following table lists the currently available Chip PC products that support multiple displays:

Chip PC Client Devices Supporting Multiple Displays			
Model	**Type**	**Connectors**	**Notes**
Jack PC EFI 6900	Dual	Single DVI-I	Can use a “Y” cable to split the DVI-I socket into two sockets: one DVI-D socket and one VGA socket.
Xtreme PC NG 6500	Dual	One DVI-D & One VGA	Cannot use a “Y” cable. Display devices are connected directly to the client sockets.
Xtreme PC NG 6600	Quad	Two DVI-I	Can use “Y” cables to split the DVI-I sockets. Each DVI-I can be split into two sockets: one DVI-D socket and one VGA socket. A maximum of four display devices can be connected.

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Chapter 3 Multiple Display Options

This chapter describes the various configuration options available on Chip PC client devices that support multiple displays.

The following table lists available configuration options and acceptable values:

Multiple Display Configuration Options	
Option	**Values**
Monitor Settings (This option is used to determine the operation mode/behavior of the display/displays)	Single Monitor Single Monitor (cross) Dual Monitor Dual Monitor (cross) Clone Mode Horizontal Span Quad Spread (Analog Primary) Quad Spread (Digital Primary)
Reposition dialog boxes on (This option determines the location of system dialog windows when using the “Horizontal Span” monitor setting)	No Repositioning Move to primary Move to secondary
Second Display Properties (these options cannot be modified and appear for reference purpose only)	N/A

Monitor Settings

The **Monitor Settings** configuration option is used to determine the operation-mode/behavior of the displays connected to the Chip PC client device.

The effect of the **Monitor Settings** option and the legitimate values for this option, vary between “Dual” client devices and “Quad” client devices. Following are explanations regarding the use of this setting on each type of device.

The “Dual” Client Device

“Dual” client devices can support one analog and one digital display devices. “Dual” client devices may appear in one of the following configurations:

1. One VGA (analog) and one DVI-D (digital) socket (Xtreme PC NG 6500).
2. One DVI-I socket that can be split into separate VGA (analog) and DVI-D (digital) sockets with a “Y” cable (Jack PC 6900).

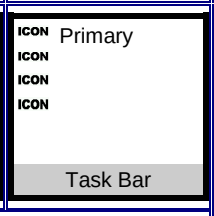
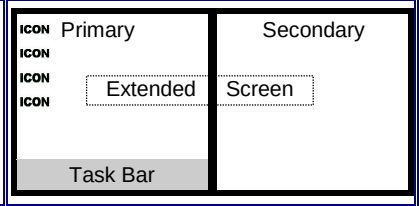
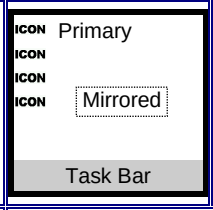
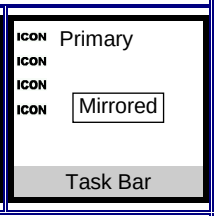
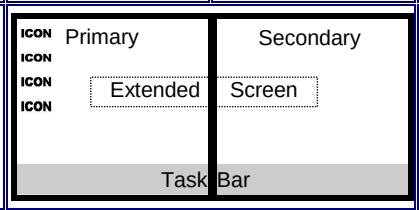
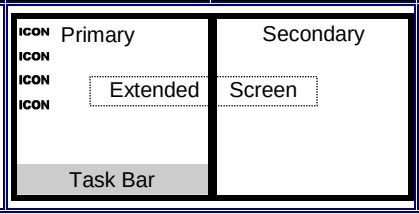
The following table describes the effect of the **Monitor settings** values on “Dual” client device:

Effect of Monitor Settings on “Dual” Client Device		
Monitor Settings	**Maximum Resolution**	**Effect**
Single Monitor	1600x1200 x24	Only the **analog** display is active, the **digital** display is **disabled**.
Single Monitor (cross)	1600x1200 x24	Only the **digital** display is active, the **analog** display is **disabled**.
Dual Monitor	1024x768 x16	**One extended screen** composed of two displays: The **analog** display is the left half of the screen and functions as the **primary** desktop. The **digital** display is the right half of the screen and functions as the **secondary** desktop.

Effect of Monitor Settings on "Dual" Client Device (continued)		
Monitor Settings	**Maximum Resolution**	**Effect**
Dual Monitor (cross)	1024x768 x16	**One extended screen** composed of two displays: The **digital** display is the left half of the screen and functions as the **primary** desktop. The **analog** display is the right half of the screen and functions as the **secondary** desktop.
Clone Mode	1600x1200 x24	The **analog** display and the **digital** display "mirror' each other and both function as the **primary** desktop
Horizontal Span	1024x768 x16	**One extended desktop** composed of two displays. The desktop (including the task bar) is spanned across the two displays: The **analog** display is the left half of the desktop and functions as the **primary** desktop. The **digital** display is the right half of the desktop and functions as the **secondary** desktop
Quad Spread (Analog Primary)	N/A	N/A
	N/A	N/A
Quad Spread (Digital Primary)	N/A	N/A
	N/A	N/A

Note The options of "Quad Spread" and "Quad Spread (cross)" are not available on a "Dual" client device. If such a device receives an Xcalibur Policy configuring it to one of these options, the setting on the device will appear as "Horizontal Span" but will behave as "Clone Mode". This discrepancy between the appeared setting and the actual behavior is "by design" and intended as an indicator of an inapplicable policy.

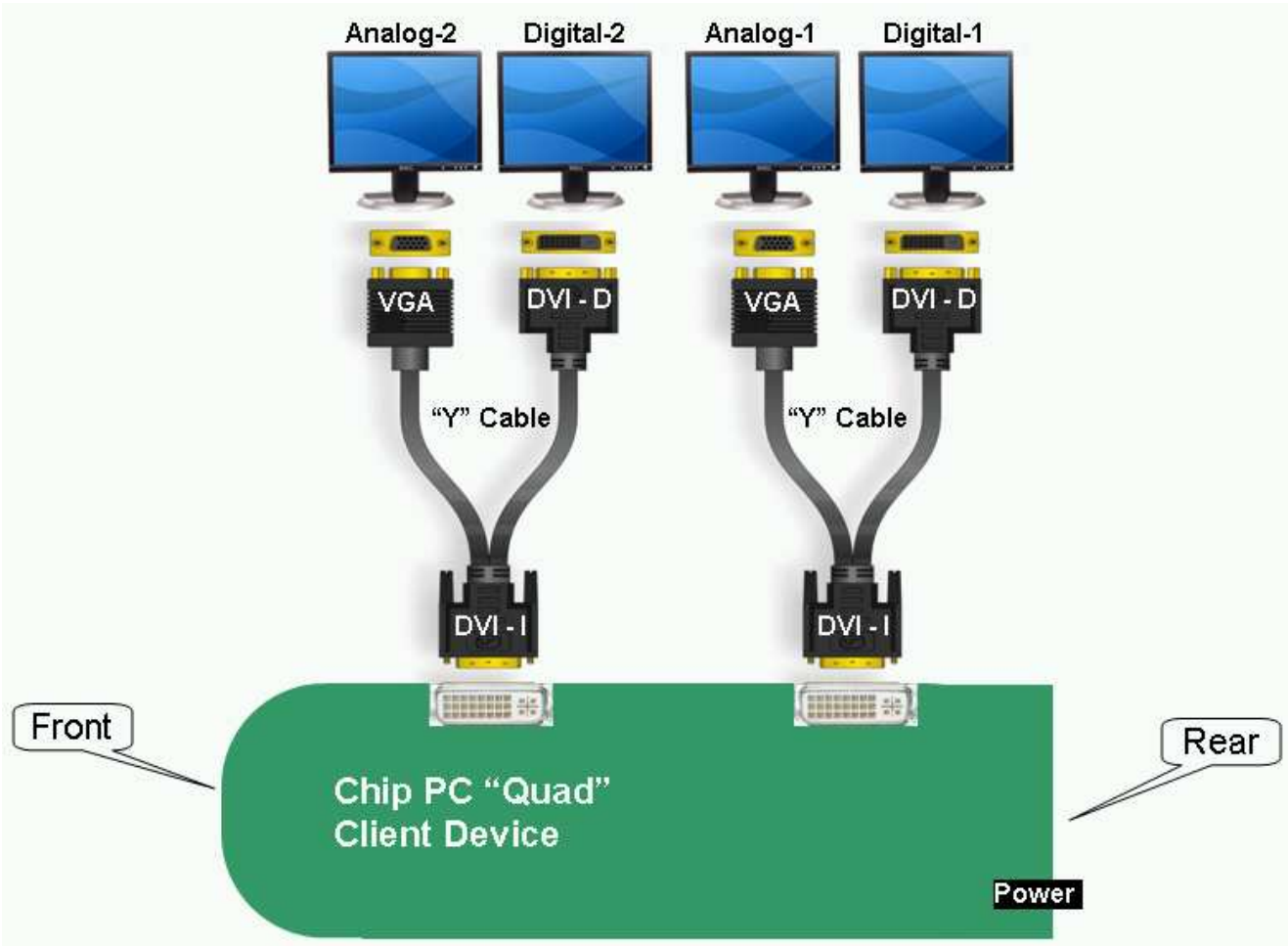
The following table illustrates the effect of **Monitor Settings** on a “Dual” Client device:

Illustration of the effect of Monitor Settings on a “Dual” Client Device				
Monitor Settings	**Analog**	**Digital**		
Single Monitor				
Single Monitor (cross)				
Dual Monitor				
Clone Mode				
Horizontal Span				
Monitor Settings	**Digital**	**Analog**		
Dual Monitor (cross)				

The “Quad” Client Device

“Quad” client devices are fitted with two DVI–I sockets. With the help of a “Y” Cable, each DVI-I socket can be split into one VGA and one DVI-D socket, as illustrated below. All together, a maximum of two analog and two digital display devices can be attached to a “Quad” device. The following naming conventions are used to distinguish between the different displays:

1. **Analog-1** and **Digital-1** refer to the VGA and DVI-D sockets that are split from the DVI-I socket near the **rear** of the client device.
2. **Analog-2** and **Digital-2** refer to the VGA and DVI-D sockets that are split from the DVI-I socket near the **front** of the client device.



The following table describes the effect of the **Monitor settings** values on "Quad" client device:

Effect of Monitor Settings on a "Quad" Client Device		
Monitor Settings	**Maximum Resolution**	**Effect**
Single Monitor	1600x1200 x24	Only the **Analog-1** display is active, the remaining displays are disabled.
Single Monitor (cross)	1600x1200 x24	Only the **Digital-1** display is active, the remaining displays are disabled.
Dual Monitor	1600x1200 x24	**Two extended screens** each composed of two displays. The two extended screens "mirror" each other: Screen 1: The **Analog-1** display is the **left** half of the screen and functions as the **primary** desktop. The **Analog-2** display is the **right** half of the screen and functions as the **secondary** desktop. Screen 2: The **Digital -A** display is the **left** half of the screen and functions as the **primary** desktop. The **Digital -B** display is the **right** half of the screen and functions as the **secondary** desktop.

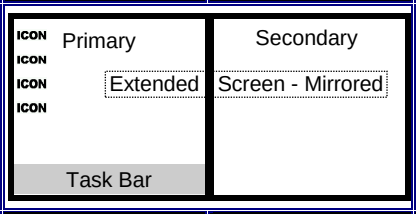
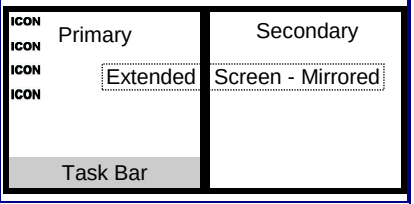
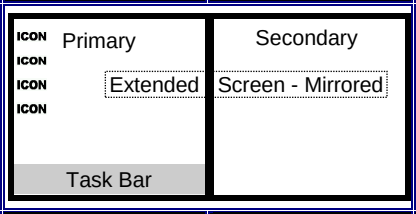
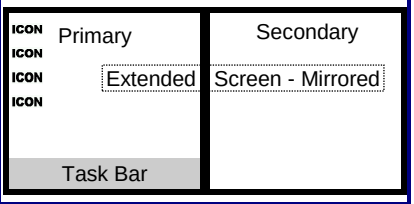
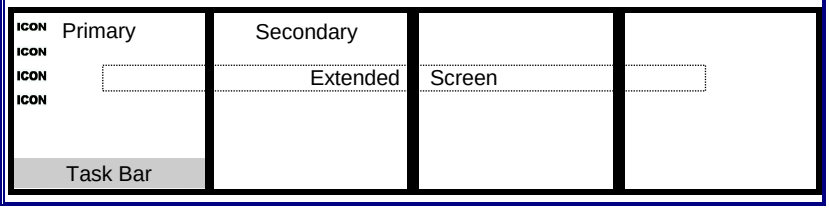
Effect of Monitor Settings on a "Quad" Client Device (continued)		
Monitor Settings	**Maximum Resolution**	**Effect**
Dual Monitor (cross)	1600x1200 x24	**Two extended screens** each composed of two displays. The two extended screens "mirror" each other: Screen 1: The **Analog-2** display is the **left** half of the screen and functions as the **primary** desktop. The **Analog-1** display is the **right** half of the screen and functions as the **secondary** desktop. Screen 2: The **Digital-2** display is the **left** half of the screen and functions as the **primary** desktop. The **Digital-1** display is the **right** half of the screen and functions as the **secondary** desktop.
Clone Mode	1600x1200 x24	The **Analog-1** display and the **Digital-1** display "mirror" each other and both function as the **primary** desktop. The remaining displays are disabled.
Horizontal Span	1024x768 x16	**One extended screen** composed of four displays. The displays are appended to each other in the following order, from left to right: First, the **Analog-1** display that functions as the **primary** desktop. Second, the **Digital-1** display which is appended to the right edge of the Analog-1 display and which functions as the **secondary** desktop. Third, the **Analog-2** display which is appended to the right edge of the Digital-1 display. Fourth, the **Digital-2** display which is appended to the right edge of the Analog-2 display. In addition, the **Analog-1** display and the **Digital-1** display are merged into **one extended desktop** with the task bar spanned across both displays.

Effect of Monitor Settings on a "Quad" Client Device (continued)		
Monitor Settings	**Maximum Resolution**	**Effect**
Quad Spread (Analog Primary)	1024x768 x16	**One extended screen** composed of four displays. The displays are appended to each other in the following order, from left to right: First, the **Analog-1** display that functions as the **primary** desktop. Second, the **Digital-1** display which is appended to the right edge of the Analog-1 display and which functions as the **secondary** desktop. Third, the **Analog-2** display which is appended to the right edge of the Digital-1 display. Fourth, the **Digital-2** display which is appended to the right edge of the Analog-2 display.
Quad Spread (Digital Primary)	1024x768 x16	**One extended screen** composed of four displays. The displays are appended to each other in the following order, from left to right: First, the **Digital-1** display that functions as the **primary** desktop. Second, the **Analog-1** display which is appended to the right edge of the Analog-1 display and which functions as the **secondary** desktop. Third, the **Digital-2** display which is appended to the right edge of the Digital-1 display. Fourth, the **Analog-2** display which is appended to the right edge of the Analog-2 display.

The following table illustrates the effect of **Monitor Settings** on a “Quad” Client device:

Illustration of the effect of Monitor Settings on a “Quad” Client Device				
Monitor Settings	**Analog-1**	**Digital-1**	**Analog-2**	**Digital-2**
Single Monitor	ICON ICON ICON ICON Primary Task Bar			
Clone Mode	ICON ICON ICON ICON Primary Mirrored Task Bar	ICON ICON ICON ICON Primary Mirrored Task Bar		
Horizontal Span	ICON ICON ICON ICON Primary	Secondary Extended	Screen	
		Task Bar		
Quad Spread (Analog Primary)	ICON ICON ICON ICON Primary	Secondary Extended	Screen	
	Task Bar			

Note Notice that in each table header the various displays appear in a different order.

Illustration of the effect of Monitor Settings on a "Quad" Client Device				
Monitor Settings	**Analog-1**	**Analog-2**	**Digital-1**	**Digital-2**
Dual Monitor				
Monitor Settings	**Analog-2**	**Analog-1**	**Digital-2**	**Digital-1**
Dual Monitor (cross)				
Monitor Settings	**Digital-1**	**Analog-1**	**Digital-2**	**Analog-2**
Single Monitor (cross)				
Quad Spread (Digital Primary)				

Reposition dialog boxes on

The **Reposition dialog boxes on** configuration option determines the location of system dialog windows when using the “Horizontal Span” monitor setting.

Effect of Reposition dialog boxes on	
Value	**Effects**
No Repositioning	This is the default value. All system dialog boxes are opened in the center of the Extended Desktop. Half of the dialog box appears on the left display and half on the right display.
Move to primary	The dialog boxes appear on the primary desktop.
Move to secondary	The dialog boxes appear on the secondary desktop.

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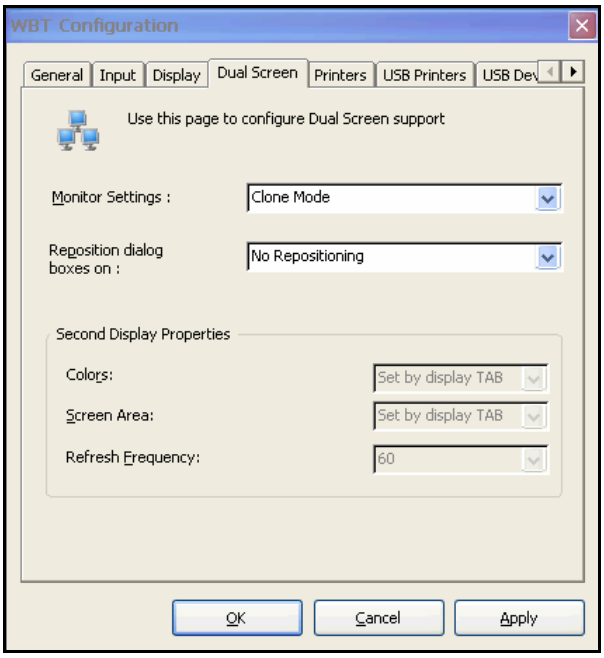
Chapter 4 Configuring Multiple Display Options

This chapter explains how to configure the multiple display options on the client device and via Xcalibur Global.

Configuring on the Client Device

Perform the following tasks on the client device:

1. From the desktop, open the **WBT Configuration** window by selecting: **Start \ Settings \ Device**
2. In the WBT Configuration, access the multiple display options by selecting the **Dual Screen** tab.



3. In the Dual Screen tab, select values for the **Monitor Settings** field and for **the Reposition dialog boxes on** field. Refer to the previous chapter for information regarding these settings.
4. In the Dual Screen tab, click on the **OK** button to save your settings are exit the WBT Configuration window. The **Settings Changed** window will now appear.

5. In the Settings Changed window, click on the **OK** button to restart the client device. This is required for the settings to take effect.

Configuring via Xcalibur Global

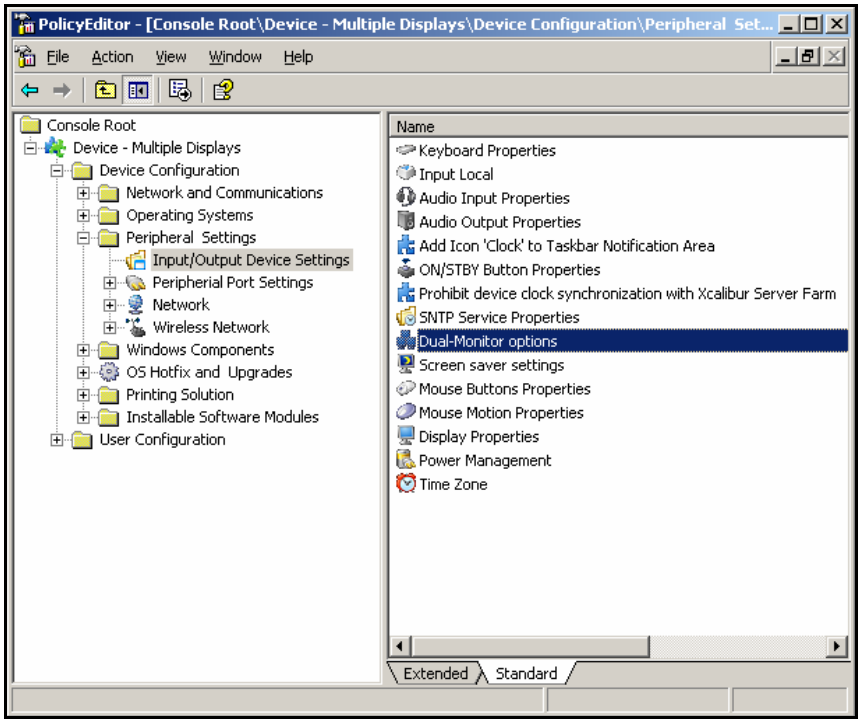
When using Xcalibur Global, the multiple display options are configured via an Xcalibur Policy.

Note For additional information on Xcalibur Policies, consult the Reference Materials.

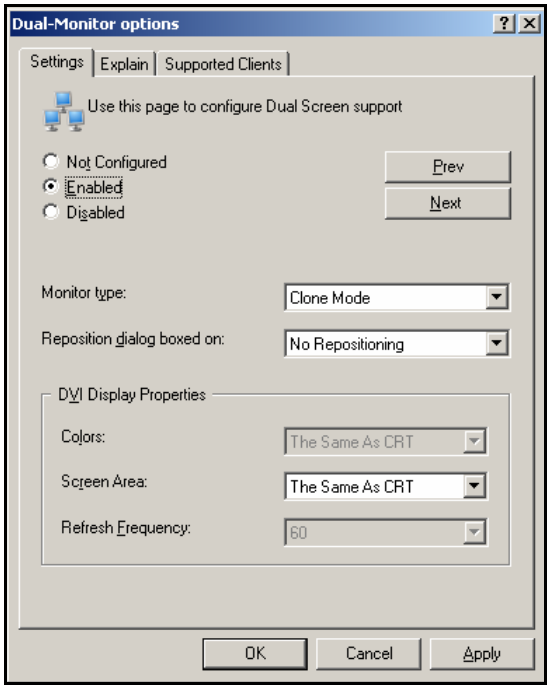
Perform the following tasks in Xcalibur Global:

1. Create an Xcalibur
2. In the Xcalibur Global policy editor, expand the following path, as illustrated:

   <policy *name*> \ Peripheral Settings \ Input/Output Device Settings



3. Double click on the **Dual-Monitor options** to open the Dual-Monitor options window.



4. In the Dual-Monitor options window, select values for the **Monitor Settings** field and for **the Reposition dialog boxes on** field. Refer to the previous chapter for information regarding these settings.
5. In the Dual-Monitor options window, click on the **OK** button to save your settings are exit the Dual-Monitor options window.

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Appendix A Plug-in Support for Multiple Displays

This appendix covers the configuration options for multiple displays that are available in the settings of some of the plug-ins.

The following plug-ins have special configuration settings for multiple displays:

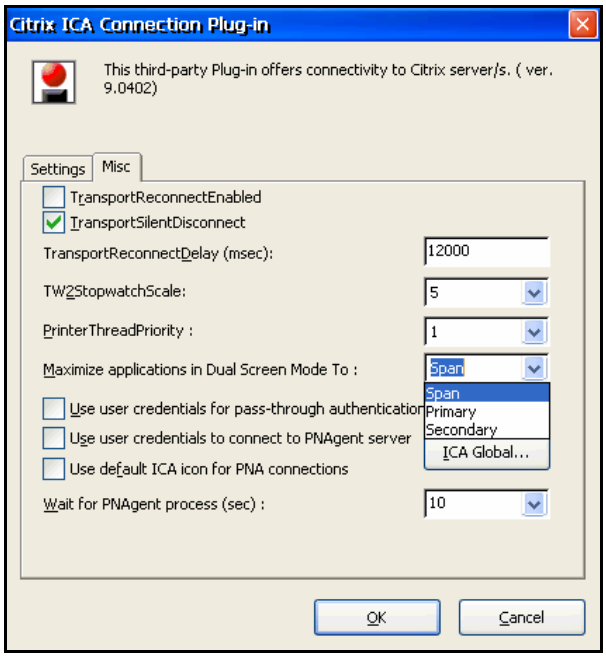
1. Citrix ICA
2. Microsoft RDP
3. Microsoft Internet Explorer
4. Pericom Terminal Emulation

Citrix ICA

Configuring the Plug-in on the Client Device

To configure the multiple display settings for the Citrix ICA plug-in, on the client device, perform the following procedure:

1. From the client device desktop, open the **Plugins** tab within the **WBT Configuration** window by selecting: **Start \ Settings \ Plugins…**
2. From the Plugins tab, open the **Citrix ICA Connection Plug-in** window by selecting the **Citrix ICA Connection** in the list of **Available Plug-ins**, and then clicking the **Configure…** button.
3. From the Citrix ICA Connection Plug-in window, open the **Misc** tab by clicking on it.
4. In the Misc tab, select one of the following values for the field **Maximize applications in Dual Screen Mode to:**
   - 4.1 Span – when maximized, the application window spans across the displays.
   - 4.2 Primary – the application window will maximize on the primary display.
   - 4.3 Secondary – when maximized, the application window spans across the displays.



5. In the Misc tab, click **OK** to save your settings and return to the WBT Configuration window.
6. In the WBT Configuration window, click **OK** to save your settings and return to the client desktop.
7. In the client device desktop, a new dialog window will appear requesting a restart of the client device. Click **OK** to confirm and restart the device.

Configuring the Plug-in via Xcalibur Global

When configuring via Xcalibur Global an Xcalibur Policy is used. To configure the multiple display settings for the Citrix ICA plug-in, via Xcalibur Global, perform the following procedure:

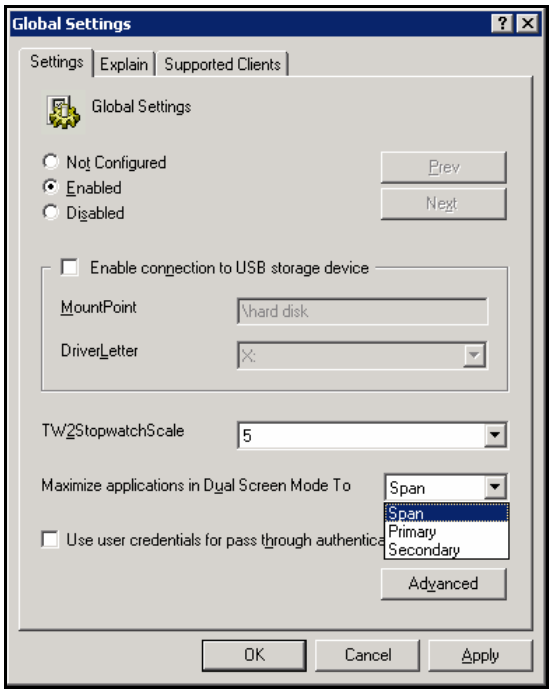
1. Open the relevant Xcalibur Policy with the policy editor.
2. In the Xcalibur Global policy editor, expand the following path:

   <policy name> \ Device Configuration \
   Installable Software Modules \ Connections \
3. From within the **Connection** branch, open the **Global Settings** window by right clicking on the **Custom ICA *X.XX* Connection** and selecting the **properties** option from the drop down menu.
4. From the Global Settings window, select Enabled and select one of the following values for the field **Maximize applications in Dual Screen Mode to:**

   4.1 Span – when maximized, the application window spans across the displays.

   4.2 Primary – the application window will maximize on the primary display.

   4.3 Secondary – when maximized, the application window spans across the displays.



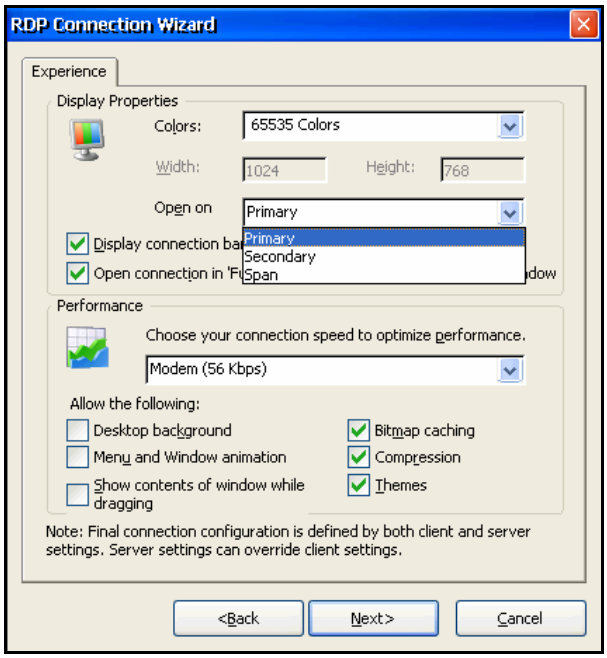
5. In the Global Settings window, click **OK** to save your settings and return to the policy editor window.
6. Exit the policy editor by selecting **File \ Exit** from the menu.

Microsoft RDP

Configuring the Plug-in on the Client Device

To configure the multiple display settings for the Microsoft RDP plug-in, on the client device, perform the following procedure:

1. From the client device desktop, open the **My Connections Manager** window by selecting **Start \ My Connections**.
2. From the My Connections Manager window, create a new RDP connection or open the properties of an existing RDP connection.
3. In the **RDP Connection Wizard** window (new connection) or in the **RDP Connection Setup** (existing connection), open the **Experience** tab.
4. In the Experience tab, in the **Display Properties** section, select one of the following values for the **Open on** field:
   - 4.1 Span – the application window is spanned across the displays. This option is only available if the device is configured to Horizontal Span mode.
   - 4.2 Primary – the application window will appear on the primary display.
   - 4.3 Secondary – the application window will appear on the secondary display



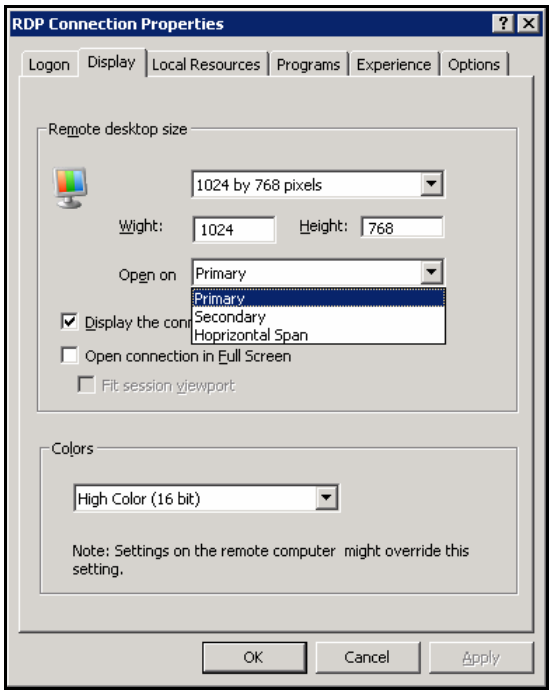
5. Complete the RDP Connection Wizard (new connection) or click OK to exit the RDP Connection Setup (existing connection).

Configuring the Plug-in via Xcalibur Global

When configuring via Xcalibur Global an Xcalibur Policy is used. To configure the multiple display settings for the Microsoft RDP plug-in, via Xcalibur Global, perform the following procedure:

1. Open the relevant Xcalibur Policy with the policy editor.
2. In the Xcalibur Global policy editor, expand the following path:

   <*policy name*> \ Device Configuration \
   Installable Software Modules \ Connections \
3. In the **Connections** branch, select the **Remote Desktop Connection**.
4. Create a new RDP Connection or use an existing connection.
5. From the right pane, open the ***<connection name>*** **Properties** window by right clicking on the desired RDP Connection and selecting **Properties** from the drop down menu.
6. From the <*connection name*> Properties window, open the **Display** tab.
7. From the Display tab, in the **Remote desktop size** section, select one of the following values for the **Open on** field:
   - 7.1 Horizontal Span – the application window is spanned across the displays.
   - 7.2 Primary – the application window will appear on the primary display.
   - 7.3 Secondary – the application window will appear on the secondary display



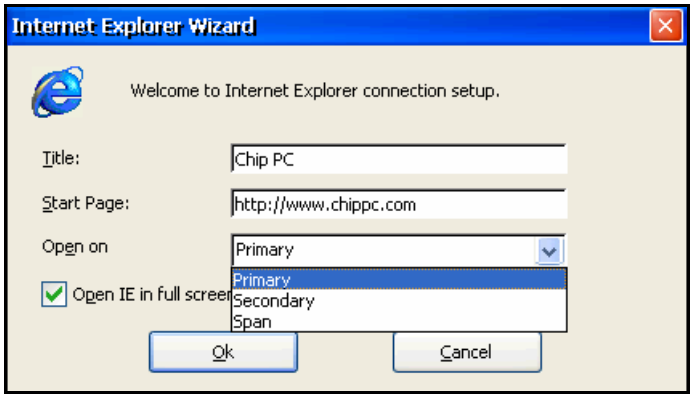
8. In the <*connection name*> Properties window, click **OK** to save your settings and return to the policy editor window.
9. Exit the policy editor by selecting **File \ Exit** from the menu.

Microsoft Internet Explorer

Configuring the Plug-in on the Client Device

To configure the multiple display settings for the Microsoft Internet Explorer plug-in, on the client device, perform the following procedure:

1. From the client device desktop, open the **My Connections Manager** window by selecting **Start \ My Connections**.
2. From the My Connections Manager window, create a new Internet Explorer connection or open the properties of an existing Internet Explorer connection.
3. In the **Internet Explorer Wizard** window (new connection) or in the **Internet Explorer Setup** (existing connection), select one of the following values for the **Open on** field:
   - 3.1 Primary – the application window will appear on the primary display.
   - 3.2 Secondary – the application window will appear on the secondary display
   - 3.3 Span – the application window is spanned across the displays. This option is only available if the device is configured to Horizontal Span mode.



4. Click OK to save the settings and return to the client desktop.

Configuring the Plug-in via Xcalibur Global

When configuring via Xcalibur Global an Xcalibur Policy is used. To configure the multiple display settings for the Microsoft Internet Explorer plug-in, via Xcalibur Global, perform the following procedure:

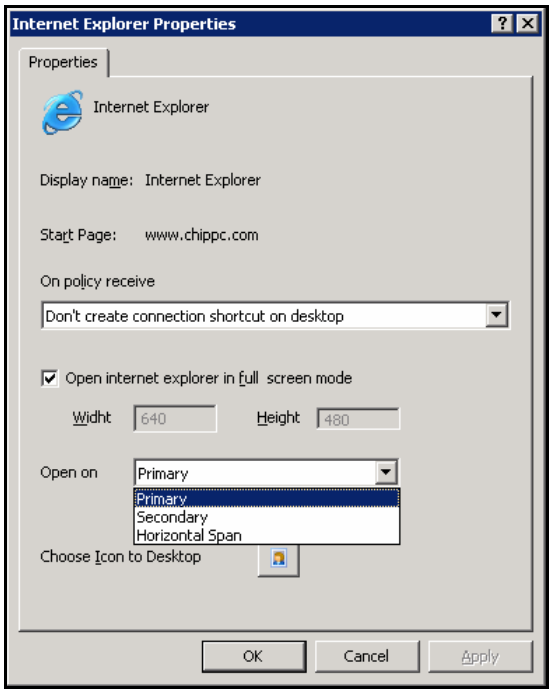
5. Open the relevant Xcalibur Policy with the policy editor.
6. In the Xcalibur Global policy editor, expand the following path:

   <policy name> \ Device Configuration \
   Installable Software Modules \ Connections \
7. In the **Connections** branch, select the **Microsoft Internet Explorer**.
8. Create a new internet Explorer Connection or use an existing connection.
9. From the right pane, open the ***<connection name>* Properties** window by right clicking on the desired Microsoft Internet Explorer Connection and selecting **Properties** from the drop down menu.
10. From the *<connection name>* Properties window, select one of the following values for the **Open on** field:

    10.1 Primary – the application window will appear on the primary display.

    10.2 Secondary – the application window will appear on the secondary display

    10.3 Horizontal Span – the application window is spanned across the displays.



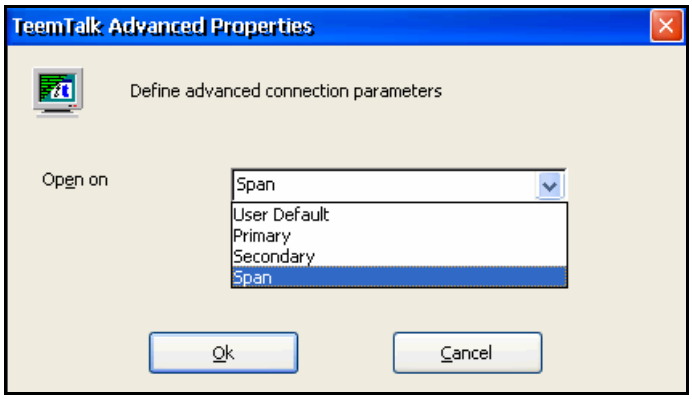
11. In the *<connection name>* Properties window, click **OK** to save your settings and return to the policy editor window.
12. Exit the policy editor by selecting **File \ Exit** from the menu.

Pericom Terminal Emulation

Configuring the Plug-in on the Client Device

To configure the multiple display settings for the Pericom Terminal Emulation plug-in, on the client device, perform the following procedure:

1. From the client device desktop, open the **My Connections Manager** window by selecting **Start \ My Connections**.
2. From the My Connections Manager window, create a Terminal Emulation.
3. From the My Connections Manager, open the **TeamTalk Advanced Properties** windows by right clicking on the desired Terminal Emulation connection and selection **Advanced…** from the drop down menu.
4. In the TeamTalk Advanced Properties window, select one of the following values for the **Open on** field:
   - 4.1 User Default – uses the default device setting.
   - 4.2 Primary – the application window will appear on the primary display.
   - 4.3 Secondary – the application window will appear on the secondary display
   - 4.4 Span – the application window is spanned across the displays. This option is only available if the device is configured to Horizontal Span mode.



5. Click OK to save the settings and return to the client desktop.

Configuring the Plug-in via Xcalibur Global

When configuring via Xcalibur Global an Xcalibur Policy is used. To configure the multiple display settings for the Pericom Terminal Emulation plug-in, via Xcalibur Global, perform the following procedure:

1. Open the relevant Xcalibur Policy with the policy editor.
2. In the Xcalibur Global policy editor, expand the following path:

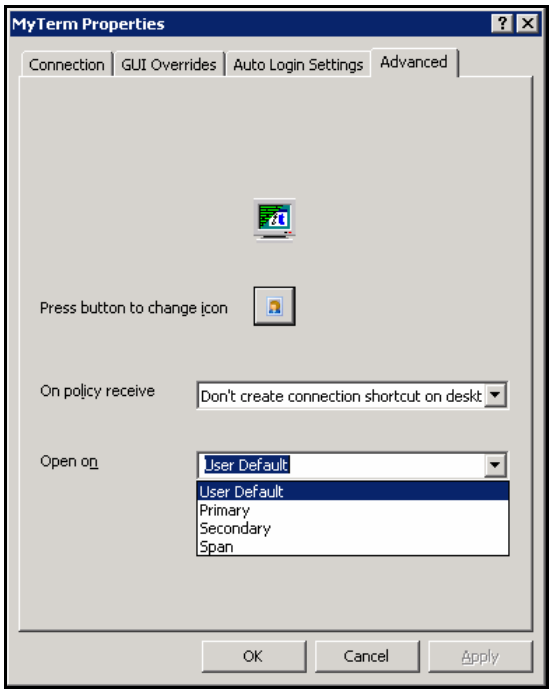
   <*policy name*> \ Device Configuration \
   Installable Software Modules \ Connections \
3. In the **Connections** branch, select the **Pericom Connection**.
4. Create a new Pericom Connection or use an existing connection.
5. From the right pane, open the ***<connection name>*** **Properties** window by right clicking on the desired Pericom Connection and selecting **Properties** from the drop down menu.
6. From the <*connection name*> Properties window, open the **Advanced** tab and select one of the following values for the **Open on** field:

   6.1 User Default – uses the default device setting.

   6.2 Primary – the application window will appear on the primary display.

   6.3 Secondary – the application window will appear on the secondary display

   6.4 Span – the application window is spanned across the displays.



7. In the <*connection name*> Properties window, click **OK** to save your settings and return to the policy editor window.
8. Exit the policy editor by selecting **File \ Exit** from the menu.

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Appendix B A “Quad” client with two display devices

This appendix will explain how to work with the following display and client device configuration:

1. A “Quad” client device.
2. Two display devices that are each connected to a separate socket.

Note For the purpose of this appendix, there is no significance to the type of the connected displays (digital/analog).

Monitor Settings

When configuring the **Dual Screen** properties (on the local device or via Xcalibur Global) the following values are relevant for the field of **Monitor Settings:**

- Clone Mode
- Single Monitor
- Single Monitor (cross)
- Dual Monitor
- Dual Monitor (cross)

When selecting the Clone Mode or one of the Single Monitor settings, the behavior of application windows is the normal behavior found in any regular single display configuration.

The following section will explain the details regarding the special behavior of application windows in the Dual Monitor settings.

Application Windows Behavior in Dual Monitor Settings

In a Dual Monitor setting, the exact behavior of an application window depends on the type of the application.

We will focus on the following two applications:

- Citrix ICA
- Microsoft RDP

Citrix ICA

The following table describes the various window behaviors that are available when using ICA and their relevant settings:

Window Behavior	ICA mode	ICA plug-in setting	Comments
Maximize	Desktop	N/A	Window is spanned across both displays.
	Published Application – Full Screen	N/A	Window is spanned across both displays.
	Published Application – Seamless Window	Secondary / Span	Window is spanned across both displays.
	Published Application – Seamless Window	Primary	Window will maximize in the Primary display even if resized and moved to the secondary display.
Resize / Minimize	Desktop	N/A	Cannot be resized or minimized.
	Published Application – Full Screen	N/A	Cannot be resized or minimized.
	Published Application – Seamless Window	N/A	Can be resized and minimized. Can be resized across displays.
Drag window between displays	Desktop	N/A	Cannot be dragged between displays
	Published Application – Full Screen	N/A	Cannot be dragged between displays
	Published Application – Seamless Window	N/A	Can be dragged between displays

Microsoft RDP

The following table describes the various window behaviors that are available when using RDP and their relevant settings:

Window Behavior	RDP Connection Settings	Comments
Maximize	Open on: Primary	Window is maximized on the Primary display.
	Open on: Secondary	Window is maximized on the Secondary display.
Resize / Minimize	Display connection bar – enabled Open connection in 'Full Screen' - enabled	Cannot resize. Can minimize.
	Display connection bar – enabled Open connection in 'Full Screen' - disabled	Cannot resize. Can minimize.
	Display connection bar – disabled Open connection in 'Full Screen' - enabled	Cannot resize. **Cannot** minimize.
	Display connection bar – disabled Open connection in 'Full Screen' - disabled	Cannot resize. Can minimize.

Window Behavior	RDP Connection Settings	Comments
Drag window between displays	Display connection bar – enabled Open connection in 'Full Screen' - enabled	Cannot drag window between displays.
	Display connection bar – enabled Open connection in 'Full Screen' - disabled	Cannot drag window between displays.
	Display connection bar – disabled Open connection in 'Full Screen' - enabled	Cannot drag window between displays.
	Display connection bar – disabled Open connection in 'Full Screen' - disabled	**Can** drag window between displays.