
citrix

ICA settings reference

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About this document

This document provides information on:

- Sections where each of the ICA setting parameters belongs to
- Information on each of the ICA setting parameters

Please note that the information in this document is updated gradually. The remaining parameters of the ICA settings will be updated in the coming days.

ICA settings reference – section

Server

- ClientAudio
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- EnableAudioInput
- EnableUDPAudio
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Wfclient

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Graphics

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Thinwire 3.0

- DesiredColor
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- TwRedundantImageItems
- PrimaryMonitor
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ICA settings reference – parameters

Audio parameters

ClientAudio

Specifies whether to enable client audio mapping or not.

Use this policy to control how sound effects and music produced by remote applications or desktops are directed to the client computer. When this policy is enabled, the "Enable audio" check box can be used to completely disable client audio mapping. This does not affect the client to server audio data, which is controlled through the "Remoting client devices" policy. It is also possible to control the audio quality.

Three quality levels are supported: low, medium, and high. This setting affects both server to client and client to server audio quality. Note that the bandwidth requirements for high quality audio could make this setting unsuitable for many deployments.

Section	Server
Feature	Audio
Attribute Name	INI_CAM
Data Type	Boolean
Access Type	Read
UNIX Specific	No

Values

Value	Description
False	Disables client audio mapping - Default
True	Enables client audio mapping

INI location

INI File	Section
Module.ini	VirtualDriver
All_Regions.ini	Virtual Channels\Audio

AudioBandwidthLimit

Specifies the audio bandwidth limit and, by extension, the audio quality for the connection. Higher audio quality requires more bandwidth. The bandwidth requirements for high quality audio might make this setting unsuitable for many deployments.

Section	Server
Feature	Audio
Attribute Name	INI_AUDIOBANDWIDTHLIMIT
Data Type	Integer
Access Type	Read
UNIX Specific	No

Values

Value	Description
1	Medium quality audio
2	Low quality audio
0	High quality audio - Default

INI location

INI File	Section
All_Regions.ini	Virtual Channels

EnableAudioInput

Enables access to audio capture devices. Use this policy to enable and restrict the remote application or desktop access to local audio capture devices (microphones).

Section	Server
Feature	Audio
Attribute Name	INI_AUDIOINPUTENABLE
Data Type	Boolean
Access Type	Read
UNIX Specific	No

Values

Value	Description
True	Allow use of audio capture devices (microphone).
False	Disallow use of audio capture devices (microphone).

INI location

INI File	Section
All_Regions.ini	Virtual Channels\Audio

EnableUDPAudio

Specifies whether to enable UDP audio or not.

UDP audio can improve the quality of phone calls made over the Internet. It uses User Datagram Protocol (UDP) instead of Transmission Control Protocol (TCP).

Section	Server
Feature	Audio
Attribute Name	INI_AUDIOENABLEUDP
Data Type	Boolean
Access Type	Read
UNIX Specific	No

Values

Value	Description
True	Enables UDP audio.
False	Disables UDP audio. This is the default value set.

INI location

INI File	Section
All_Regions.ini	Virtual Channels\Audio

UDPAudioPortLow

Specifies the minimum port numbers for UDP audio traffic.

By default, ports 16500–16509 are used.

Section	Server
Feature	Audio
Attribute Name	INI_UDPAUDIOPORTLOW
Data Type	Integer
Access Type	Read
UNIX Specific	No

Values

Value	Description
Port value	By default, port 16500 is used

INI location

INI File	Section
All_Regions.ini	Virtual Channels\Audio

UDPAudioPortHigh

Specify the maximum port numbers for UDP audio traffic. By default, ports 16500–16509 are used.

Section	Server
Feature	Audio
Attribute Name	INI_UDPAUDIOPORTHIGH
Data Type	Integer
Access Type	Read
UNIX Specific	No

Values

Value	Description
Port value	By default, port 16509 is used

INI location

INI File	Section
All_Regions.ini	Virtual Channels\Audio

EnableUDPThroughGateway

Specifies whether to enable or disable UDP audio through Citrix Gateway.

Section	Server
Feature	Audio
Attribute Name	INI_UDPTHROUGHGATEWAYENABLE
Data Type	Boolean
Access Type	Read
UNIX Specific	No

Values

Value	Description
True	Enables UDP audio through Citrix Gateway.
False	Disable UDP audio through Citrix Gateway. Default value.

INI location

INI File	Section
All_Regions.ini	Virtual Channels\Audio

AudioLatencyControlEnabled

Enables latency control.

Section	Server
Feature	Audio
Attribute Name	INI_AUDIO_LATENCY_CONTROL_ENABLED
Data Type	Boolean
Access Type	Read
UNIX Specific	No

Values

Value	Description
True	Reduces audio latency - default value.

INI location

INI File	Section
All_Regions.ini	Virtual Channels\Audio

AudioMaxLatency

Sets the maximum latency in milliseconds(ms) before trying to discard audio data. Default=300 ms

Section	Server
Feature	Audio
Attribute Name	INI_AUDIO_MAX_LATENCY
Data Type	Integer
Access Type	Read
UNIX Specific	No

Values

Value	Description
300 ms	Maximum audio latency in audio. By default, the value is 300 ms.

INI location

INI File	Section
All_Regions.ini	Virtual Channels\Audio

AudioLatencyCorrectionInterval

Defines how often to correct the latency (in ms). Default=300 ms

Section	Server
Feature	Audio
Attribute Name	INI_AUDIO_LATENCY_CORRECTION_INTERVAL
Data Type	Integer
Access Type	Read
UNIX Specific	No

Values

Value	Description
300 ms	Define audio latency correction interval. By default, the value is 300 ms.

INI location

INI File	Section
All_Regions.ini	Virtual Channels\Audio

AudioTempLatencyBoost

Sets the higher latency band (in ms) above the lower PlaybackDelayThresh band. Default=300 ms.

Section	Server
Feature	Audio
Attribute Name	INI_AUDIO_TEMP_LATENCY_BOOST
Data Type	Integer
Access Type	Read
UNIX Specific	No

Values

Value	Description
300 ms	Audio latency boost interval. By default, the value is 300 ms.

INI location

INI File	Section
All_Regions.ini	Virtual Channels\Audio

GSTAudioSrcName

Defines audio source name of Gstreamer.

Section	Server
Feature	Audio
Attribute Name	INI_CAM_AUDIOSRC_NAME
Data Type	String
Access Type	Read
UNIX Specific	No

Values

Value	Description
autoaudiosrc	Gstreamer audio source name. By default, the value is “autoaudiosrc”.

INI location

INI File	Section
All_Regions.ini	Virtual Channels\Audio

GSTAudioSinkName

Defines audio sink name of Gstreamer.

Section	Server
Feature	Audio
Attribute Name	INI_CAM_AUDIOSINK_NAME
Data Type	String
Access Type	Read
UNIX Specific	No

Values

Value	Description
autoaudiosink	Gstreamer audio sink name. By default, the value is “autoaudiosink”.

INI location

INI File	Section
All_Regions.ini	Virtual Channels\Audio

GSTSpeexBufferingLatency

Defines Gstreamer buffering latency for speex.

Section	Server
Feature	Audio
Attribute Name	INI_GST_SPEEX_BUFFERING_LATENCY
Data Type	Integer
Access Type	Read
UNIX Specific	No

Values

Value	Description
50 ms	Gstreamer buffering latency for speex. By default, the value is 50 ms.

INI location

INI File	Section
All_Regions.ini	Virtual Channels\Audio

GSTVorbisBufferingLatency

Defines Gstreamer buffering latency for Vorbis.

Section	Server
Feature	Audio
Attribute Name	INI_GST_VORBIS_BUFFERING_LATENCY
Data Type	Integer
Access Type	Read
UNIX Specific	No

Values

Value	Description
150 ms	Gstreamer buffering latency for Vorbis. By default, the value is 150 ms.

INI location

INI File	Section
All_Regions.ini	Virtual Channels\Audio

Webcam parameters

AllowAudioInput

Enables webcam redirection.

Section	wfclient
Feature	Webcam redirection
Attribute Name	INI_AUDIOINPUTENABLE
Data Type	Boolean
Access Type	Read
UNIX Specific	Yes

Values

Value	
False	Disables webcam redirection.
True	Enables webcam redirection. Default value.

INI location

INI File	Section
Wfclient.ini	~/ICAClient/wfclient.ini

HDXWebCamDevice

Selects the default webcam. You can also use it to set another capture video as default.

Section	Wfclient
Feature	Webcam redirection
Attribute Name	INI_WEBCAM_DEVICE
Data Type	String
Access Type	Read
UNIX Specific	Yes

Values

Value	
HDXWebCamDevice=<path to a different device path>. ex. HDXWebCamDevice=/dev/video2.	
For example, add HDXWebCamDevice=/dev/video2 to set the webcam mapped to /dev/video2 in a system.	

INI location

INI File	Section
All_Regions.ini	Virtual Channels\HDXRealTime

HDXWebCamWidth

Sets the width value of the resolution for the webcam.

Section	Wfclient
Feature	Webcam redirection
Attribute Name	INI_WEBCAMP_WIDTH
Data Type	Integer
Access Type	Read
UNIX Specific	Yes

Values

Value	
Width value. HDXWebCamWidth=<width value>. ex. HDXWebCamWidth=480	

INI location

INI File	Section
All_Regions.ini	Virtual Channels\HDXRealTime

HDXWebCamHeight

Sets the height value of the resolution for the webcam.

Section	Wfclient
Feature	Webcam redirection
Attribute Name	INI_WEBCAM_HEIGHT
Data Type	Integer
Access Type	Read
UNIX Specific	Yes

Values

Value	
Height value. HDXWebCamHeight=<height value> ex. HDXWebCamHeight=720	

INI location

INI File	Section
All_Regions.ini	Virtual Channels\HDXRealTime

HDXWebCamFramesPerSec

Sets the numerator value of the frame rate for the webcam.

Section	Wfclient
Feature	Webcam redirection
Attribute Name	INI_WEBCAM_ FRAMEPERSEC
Data Type	Integer
Access Type	Read
UNIX Specific	Yes

Values

Value	
Frames per second - numerator value HDXWebCamFramesPerSec=<numerator value>. ex. HDXWebCamFramesPerSec=30	

INI location

INI File	Section
All_Regions.ini	Virtual Channels\HDXRealTime

HDXWebCamFramesPerSecDenominator

Sets the denominator value of the frame rate for the webcam.

Section	Wfclient
Feature	Webcam redirection
Attribute Name	INI_WEBCAM_FRAMEPERSECDENOMINATOR
Data Type	Integer
Access Type	Read
UNIX Specific	Yes

Values

Value	
Frames per second denominator value. HDXWebCamFramesPerSecDenominator=<denominator value>. ex. HDXWebCamFramesPerSecDenominator=1	

INI location

INI File	Section
All_Regions.ini	Virtual Channels\HDXRealTime

HDXWebCamDebug

Debug mode creates the following files that contains the encoded frames depending on the encoder used:

- /tmp/file_mode_buffers.h264
- /tmp/file_mode_buffers.theora

This file allows comparison between the video rendering on the VDA side and the actual buffers that the encoder produces on the client side. It allows to test the entire pipeline.

Section	Wfclient
Feature	Webcam redirection
Attribute Name	INI_WEBCAM_DEBUG
Data Type	Boolean
Access Type	Read
UNIX Specific	Yes

Values

Value	
False	Disables the debug mode. Default value.
True	Sets the debug mode.

INI location

INI File	Section
All_Regions.ini	Virtual Channels\HDXRealTime

HDXH264InputEnabled

Enables H264 encoder configuration.

Section	Wfclient
Feature	Webcam redirection
Attribute Name	INI_WEBCAM_H264_ENABLED
Data Type	Boolean
Access Type	Read
UNIX Specific	Yes

Values

Value	
False	Disables H264 encoder. Default value.
True	Enables H264 encoder.

INI location

INI File	Section
All_Regions.ini	Virtual Channels\HDXRealTime

Graphics parameters

LocalDisplayNames

Specifies whether to use X server shared memory or not.

Section	Server and Thinwire 3.0
Feature	Graphics
Attribute Name	LocalDisplayNames
Data Type	String
Access Type	Read
UNIX Specific	Yes

Values

Value	Description
:unix	Use the default unix socket.
:0	Use X server shared memory extension.

INI location

INI File	Section	Value
All_Regions.ini	[Virtual Channels\Thinwire Graphics]	

EnableAtomicDisplay

Enables atomic display. This parameter is only effective if you are using Presentation server 4.5 or later.

Section	Server and Thinwire 3.0
Feature	Graphics
Attribute Name	EnableAtomicDisplay
Data Type	Boolean
Access Type	Read
UNIX Specific	No

Values

Value	Description
False	Disabled atomic display.
True	Enables atomic display. This is the default value.

INI location

INI File	Section	Value
All_Regions.ini	[Virtual Channels\Thinwire Graphics]	*

UserVisualID

Specifies a visual ID. If not specified, use the default from X11 API DefaultVisual.

Section	Server and Thinwire 3.0
Feature	Graphics
Attribute Name	UserVisualID
Data Type	Number
Access Type	Read
UNIX Specific	No

Values

Value	Description
-1	Use default from X11 API DefaultVisual.
<Number>	Specify a visual ID.

INI location

INI File	Section	Value
All_Regions.ini	[Virtual Channels\Thinwire Graphics]	

DesiredColor

Specifies the preferred color depth for a session. In general, low color depths give better performance over low bandwidth. However, some of the compression technologies available can only be used with full color. So, the effective performance depends on the individual application and usage pattern. The server might choose not to honor the color depth setting chosen because higher color depths result in heavy memory usage on the servers.

256 or greater colors are supported only for Linux clients.

Section	Server and Thinwire 3.0
Feature	Graphics
Attribute Name	INI_DESIREDCOLOR
Data Type	String
Access Type	Read
UNIX Specific	No

Values

Value	Description
1	16 colors - default
2	256 colors
4	high color
8	true color

INI location

INI File	Section	Value
All_Regions.ini	[Virtual Channels\Thinwire Graphics]	*

ApproximateColors

Specifies whether to use color approximation or not. If not present, the default value from [Thinwire3.0] is used.

Section	Server and Thinwire 3.0
Feature	Graphics
Attribute Name	ApprixmateColors
Data Type	Boolean
Access Type	Read
UNIX Specific	No

Values

Value	Description
False	Do not use color approximation. This is the default value.
True	Use the color approximation.

INI location

INI File	Section	Value
All_Regions.ini	[Virtual Channels\Thinwire Graphics]	*

DesiredHRES=640

Specifies the default value of horizontal window size. The default value is 640.

Section	Server and Thinwire 3.0
Feature	Graphics
Attribute Name	DesiredHRES
Data Type	Number
Access Type	Read
UNIX Specific	No

Values

Value	Description
640	The default value is number 640.

INI location

INI File	Section	Value
All_Regions.ini	[Virtual Channels\Thinwire Graphics]	

DesiredVRES=480

Specifies the default value of vertical window size. The default value is 480.

Section	Server and Thinwire 3.0
Feature	Graphics
Attribute Name	DesiredVRES
Data Type	Number
Access Type	Read
UNIX Specific	No

Values

Value	Description
480	The default value is 480.

INI location

INI File	Section	Value
All_Regions.ini	[Virtual Channels\Thinwire Graphics]	

UseFullScreen=false

Specifies whether to start a session as full screen or not.

Section	Server and Thinwire 3.0
Feature	Graphics
Attribute Name	UseFullScreen
Data Type	Boolean
Access Type	READ
UNIX Specific	No

Values

Value	Description
False	Do not start session in full screen.
True	Starts session in full screen.

INI location

INI File	Section	Value
All_Regions.ini	[Virtual Channels\Thinwire Graphics]	

NoWindowManager

Disables scroll bars around client and window manager frame is removed.

Section	Server and Thinwire 3.0	
Feature	Graphics	
Attribute Name	NoWindowManager	
Data Type	Boolean	
Access Type	READ	
UNIX Specific	No	

Values

Value	Description
False	Disables scroll bars around client and window manager frame is removed. This is the default value.
True	Enables scroll bars around client and window manager frame is present.

INI location

INI File	Section	Value
All_Regions.ini	[Virtual Channels\Thinwire Graphics]	*

ResizeSession

Specifies whether to use resizable session or to use scroll bars.

Section	Server and Thinwire 3.0
Feature	Graphics
Attribute Name	ResizeSession
Data Type	Boolean
Access Type	Read
UNIX Specific	No

Values

Value	Description
False	The session window is not resizable. It is recommended to use the scroll bar.
True	The session window is resizable. This is the default value.

INI location

INI File	Section	Value
All_Regions.ini	[Virtual Channels\Thinwire Graphics]	

ScreenPercent

Specifies the size of the ICA session as a percentage of total screen size.

If DesiredWinType is set to 5, this parameter is used to specify the size of the ICA session as a percentage of total screen size.

Section	Server	
Feature	Core	
Attribute Name	INI_SCREENPERCENT	
Data Type	Integer	
Access Type	Read and Write	
UNIX Specific	No	

Values

Value	Description
75	Default screen size when the setting is enabled.
0	Disables the setting.

INI location

INI File	Section	Value
All_Regions.ini	[Virtual Channels\Thinwire Graphics]	*

TWIDesiredIconColor

Specifies icon color depth in bitsPerPixel. The values are: 4, 8, 16, 24, 32.

Section	Server and Thinwire 3.0
Feature	Graphics
Attribute Name	TWIDesiredIconColor
Data Type	Number
Access Type	Read
UNIX Specific	No

Values

Value	Description
Number	normal values: 4, 8, 16, 24, 32

INI location

INI File	Section	Value
All_Regions.ini	[Virtual Channels\Thinwire Graphics]	*

TW2StopwatchMinimum

Sets a minimum return value for TW2 stopwatch timers.

TW2's stopwatch timers can return meaningless results when the underlying graphics system is not synchronous, for example X11 on Unix. This option allows an implementation to set a minimum value that is returned for a stopwatch timer period. The minimum value used is taken from the configuration files and scaled by the size of the last image copy.

Section	Thinwire3.0
Feature	Graphics
Attribute Name	INI_TW2_STOPWATCH_MINIMUM
Data Type	String
Access Type	Read
UNIX Specific	No

Values

Value	Description
0	This is the default value.

INI location

INI File	Section	Value
All_Regions.ini	[Virtual Channels\Thinwire Graphics]	*

EnableOSS

Specifies whether to enable Off Screen Surface (OSS) or not. Enables the server to command the creation and use of X pixel maps for off-screen drawing.

Reduces bandwidth in 15-bit and 24-bit color at the expense of X server memory and processor time.

Section	Server
Feature	Graphics
Attribute Name	INI_ENABLE_OSS
Data Type	Boolean
Access Type	Read
UNIX Specific	No

Values

Value	Description	
False	Enable OSS. This is the default value.	
True	Disable OSS.	

INI location

INI File	Section	Value
All_Regions.ini	[Virtual Channels\Thinwire Graphics]	*

WinSetting

Decides which display settings must be used for a window.

Section	Server and Thinwire 3.0
Feature	Graphics
Attribute Name	WinSetting
Data Type	Number
Access Type	Read
UNIX Specific	No

Values

Value	Description
0	Prefer full screen.
1	Prefer fixed width and height window.
2	Prefer percentage window.

INI location

INI File	Section	Value
All_Regions.ini	[Virtual Channels\Thinwire Graphics]	*

TwRedundantImageItems

Conditionally compiled mechanism for eliminating redundant bitmap drawing. The value is the number of screen rectangles to track. The number zero means disable the parameter.

Section	Server and Thinwire 3.0
Feature	Graphics
Attribute Name	TwRedundantImageItems
Data Type	Number
Access Type	Read
UNIX Specific	No

Values

Value	Description
Number	Number of screen rectangles to track. The number zero means disable.

INI location

INI File	Section	Value
All_Regions.ini	[Virtual Channels\Thinwire Graphics]	*

PrimaryMonitor

Defines the primary monitor. Default value is zero, meaning the first monitor is the primary monitor.

Section	Server and Thinwire 3.0
Feature	Graphics
Attribute Name	PrimaryMonitor
Data Type	Number
Access Type	Read
UNIX Specific	No

Values

Value	Description
<Number>	Default value is zero, meaning the first monitor is the primary monitor.

INI location

INI File	Section	Value
All_Regions.ini	[Virtual Channels\Thinwire Graphics]	*

PreferredLaunchMonitor

Prefer to launch session into which monitor.

Section	Server and Thinwire 3.0
Feature	Graphics
Attribute Name	PreferredLaunchMonitor
Data Type	Number
Access Type	Read
UNIX Specific	No

Values

Value	Description
<number>	0=Primary Monitor, 1=Secondary Monitor

INI location

INI File	Section	Value
All_Regions.ini	[Virtual Channels\Thinwire Graphics]	*

FontSmoothingType

Improves the quality of displayed fonts beyond the available quality through traditional font smoothing or anti-aliasing.

Specifies the font smoothing type for the session. The value is only set at connection time whether it's for a new connection or for a reconnection.

Section	Server
Feature	FontSmoothing
Attribute Name	INI_FONTSMOOTHINGTYPE
Data Type	Integer
Access Type	Read
UNIX Specific	No

Values

Value	Description
0	The local preference on the device is used. The FontSmoothingTypePref setting defines this value.
1	No smoothing
2	Standard smoothing
3	ClearType (horizontal subpixel) smoothing
Note: Both standard smoothing and ClearType smoothing can increase Citrix Workspace app's bandwidth requirements.	

INI location

INI File	Section	Value
All_Regions.ini	[Virtual Channels\Thinwire Graphics]	*

H264Enabled

Enables or disables H.264-based compression codec support.

Section	Server and Thinwire 3.0
Feature	Graphics
Attribute Name	H264Enabled
Data Type	Boolean
Access Type	Read
UNIX Specific	Yes

Values

Value	Description
False	Disables H.264-based compression codec support.
True	Enables H.264-based compression codec support. This is the default value.

INI location

INI File	Section	Value
All_Regions.ini	[Virtual Channels\Thinwire Graphics]	*

TextTrackingEnabled

Enables or disables deep compression codec support and text tracking.

Section	Server and Thinwire 3.0
Feature	Graphics
Attribute Name	TextTrackingEnabled
Data Type	Boolean
Access Type	Read
UNIX Specific	No

Values

Value	Description
False	Disables deep compression codec support and text tracking.
True	Enables deep compression codec support and text tracking. This is the default value.

INI location

INI File	Section	Value
All_Regions.ini	[Virtual Channels\Thinwire Graphics]	*

SmallFramesEnabled

Enables or disables small frames in full H.264 mode.

Section	Server and Thinwire 3.0
Feature	Graphics
Attribute Name	SmallFramesEnabled
Data Type	Boolean
Access Type	Read
UNIX Specific	No

Values

Value	Description
False	Disables small frames in full H.264 mode. This is the default value.
True	Enables small frames in full H.264 mode.

INI location

INI File	Section	Value
All_Regions.ini	[Virtual Channels\Thinwire Graphics]	*

FontSmoothingTypePref

Determines the local preference. This parameter is used to express client font-smoothing preference.

Section	Server and Thinwire 3.0
Feature	Graphics
Attribute Name	FontSmoothingTypePref
Data Type	Number
Access Type	Read
UNIX Specific	No

Values

Value	Description
0	No smoothing
1	No smoothing
2	Standard smoothing
3	ClearType (horizontal subpixel) smoothing. This is the default value.

INI location

INI File	Section	Value
All_Regions.ini	[Virtual Channels\Thinwire Graphics]	*