

WebICE System Specifications Guide

General The specifications herein are intended as a guideline for ensuring optimal performance and the best WebICE experience. It is possible that a WebICE user with red indicators may be able to use WebICE without an issue; however, unexpected behavior may result. There are other factors that may cause degraded performance even if all indicators are green. This is not intended to be an exhaustive list of system specifications and resources that may affect WebICE performance; however, it does include the typical problems users encounter.

Interpreting the red, yellow, and green indicators

In general, the WebICE system specification indicators may be interpreted as detailed below:

- Green: System is capable of delivering optimal performance
- Yellow: Performance may suffer. ICE recommends upgrading any component that falls into this category.
- Red: Performance may suffer and/or WebICE may be inoperable. Upgrade immediately.

	Operating System	Processor (CPU)	Bandwidth Speed Test	Available Memory (RAM)	IWS Bitness	IWS Max Heap % Used	Video Memory (per Screen)	Video Speed Test
Green	Windows 7 Windows 8 Windows 10	Current or previous generation	NA: 3.0+ SA: 1.5+ EUR: 1.5+ APAC: 1.0+	≥2 GB	64-bit	< 50%	≥64 MB	≤ 2 Sec
Yellow	Windows Vista	Older generation	NA: 1.0+ SA: 1.0+ EUR: .75+ APAC: .50+	<2 GB	32-bit	50-75%	<64 MB	2-3 Sec
Red	Windows XP Windows 2000 Windows NT	Older generation	NA: < 1.0 SA: < .50 EUR: < .75 APAC < .50	<1 GB	32-bit	> 75%	< 32 MB	> 3 Sec

Operating System WebICE is JRE-based application and is known to function on a variety of platforms including Windows, Apple (MAC), and Linux-based operating systems. ICE does not test server-based operating systems or deployments using a virtual environment and/or virtualized hardware. **ICE only tests and offers full functionality for dedicated hardware utilizing Windows 7, Windows 8, and Windows 10.**

Processor (CPU) Processor speed and availability play a critical role in processing the messages received through WebICE.

Available Memory (RAM) The amount of memory (RAM) used by WebICE varies based on the individual user's behavior and settings. A typical WebICE session will use 1 GB, however, based on market activity, number of portfolios, viewers, markets viewed, and advanced functions may use up to 2 GB. A WebICE session running the implied engine or Excel-RTD will use more memory than a basic WebICE session. The "Available Memory" statistic is measured after WebICE startup, WebICE may consume up to another 256-512 MB after startup. This value should be measured with all other apps on the system already running.

Implied Engine The WebICE implied engine will require more CPU and memory. The most significant values specifications for running the WebICE implied engine are CPU, IWS Average Used Heap, and Video Speed.

Excel-RTD Excel-RTD will require more CPU and memory.

Bandwidth The WebICE bandwidth test measures the end user's available bandwidth at a specific point in time; bandwidth speed ratings will vary from test to test as conditions such as the aggregate line utilization may be different. For example, if many users are active on the network, or someone is retrieving a large file, this can affect the results of this test. The test is available in the WebICE's Help Menu by clicking on 'Test My Connection Speed'. As WebICE is a real-time, streaming data application a poor result on the speed test is indicative that the ICE trading system experience will be sub-standard.

ICE WebStart (IWS)

ICE Web Start is the new mechanism to launch ICE applications after the Oracle Licensing changes are enforced and Java Web Start was deprecated in March 2019.

ICE Web Start (IWS), our replacement technology for Oracle's Java Web Start (JWS), and subsequently our applications, will use an included JRE. ICE's applications including WebICE and ICE Block will operate exclusively using the ICE-packaged JRE version and will no longer depend on any Oracle Java installation or other third party software on the user's machine.

ICE WebStart (IWS) can be installed on Windows 64-bit, Windows 32-bit and MacOS from the links on www.theice.com/launch

IWS System Requirements

Applicaition	Operating System	Processor	Memory	JRE Version
ICE Web Start	Windows ≥7 MacOS ≥10.4	Current or previous generation	≥2GB	Included in IWS installation

See also: [ICE WebStart System Requirements](#)

IWS JRE Heap WebICE currently allocates a maximum of 1 GB by default to the JRE Heap. That means even if a machine has 2 GB of available memory, Java will still only use 1 GB. The color status bar in the lower right status bar of WebICE indicates current JRE Heap usage. If this bar moves into the orange or red area, more JRE heap memory is required.

IWS JRE Bitness WebICE is optimized for operation on the 64-bit ICE WebStart platform. ICE strongly encourages all of our users to operate WebICE on 64-bit ICE WebStart to ensure optimal performance and ability to leverage complete feature set for functionality supported on the ICE platform.

Video Memory / Video Speed The video speed test will report the number of seconds it takes to draw a series of rectangles on the screen and only runs automatically when you exit your first WebICE session on a PC. You may manually check your video speed by going "Test My Video Speed" option under the WebICE Help menu. The Video Speed is a true indicator of video performance. Slow video speed performance will affect the ability for WebICE to reflect updates on the screen and is indicative that the ICE trading system experience will be sub-standard.

For more information please review the [WebICE Client Guidelines](#) or contact the ICE Helpdesk.

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