

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)	Java Bitness	Java Version	Java 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	≥1.8.0_45	< 50%	≥64 MB	≤ 2 Sec
Yellow	Windows Vista	Older generation	NA: 1.0+ SA: 1.0+ EUR: .75+ APAC: .50+	<2 GB	32-bit	<1.8.0_45	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	<1.8.0_45 ≥1.9.0	> 75%	< 32 MB	> 3 Sec

Operating System WebICE is java-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, Java 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.

Java

Java Heap WebICE currently allocates a maximum of 1 GB by default to the Java 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 Java Heap usage. If this bar moves into the orange or red area, more Java heap memory is required.

Java Version ICE begins testing of new Java releases as they become publically available. To ensure a stable platform and user experience, ICE will not certify a version until it has been thoroughly tested. Many versions will work well with WebICE, the below list shows versions which have been CERTIFIED by ICE. Additionally, we have listed versions reported by our users as problematic as NOT RECOMMENDED.

Please be aware that from April 9 2017, the minimum supported version of Java will change. For more information please see the notification here: <https://www.theice.com/alerts/markets#110000081509>

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

< Java 1.8.0_45 (incl. Java 7)	NOT RECOMMENDED
≥ Java 1.9.0 (all Java 9)	NOT RECOMMENDED
Java 1.8.0_45	CERTIFIED and RECOMMENDED
Java 1.8.0_51,60,66,131,144,151	CERTIFIED
Java 1.8.0_91,101,111,112,121	CERTIFIED - See Note below*

*Oracle has confirmed a bug exists in these versions that impacts very small subset of WebICE users. The issue prevents WebICE from starting up correctly and the workaround is to install one of the above versions of Java that are not impacted by this bug.

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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