

Connect Plus Minimum and Recommended Specifications

The following outlines the minimum specification of the equipment needed to use the Connect Plus (C+) system.

Warning: Failure to meet the minimum specification may result in the software blocking you from delivering tests

Website Browsers

The table lists the **minimum** supported browser version for use with Connect Plus websites. Cookies and JavaScript need to be enabled.

	Internet Explorer	Firefox	Chrome
Test Centre & Test Sitting Websites	11	46 or later	49 or later

Hardware

Specifications apply to Test Sitting Administrator computer (TSA) and Candidate Workstation computer (CW) unless otherwise specified.

	Minimum Specification	Recommended Specification
Screen Resolution	1024x768 Only one monitor, no multi-monitor setup	1920x1080 Only one monitor, no multi-monitor setup
Operating System	Windows 7 SP1, 8.1, 10 Version with 24 November 2015 patch	Windows 7 SP1, 8.1, 10 latest available patch
Framework	.NET 4.5.2	.NET 4.6.1
Memory (RAM)	TSA & CW: 2GB (32-bit) or 3 GB (64-bit)	TSA & CW: 4 GB
Processor	TSA & CW: PassMark CPU benchmark score of 1600 or higher Click here for help with finding your score	TSA & CW: PassMark CPU benchmark score of 4000 or higher
Free Disk space	5GB	10GB
Peripherals	CW: Mouse, keyboard, headphones if required	Same as minimum

Software

Specifications apply to TSA and CW.

	Required Specification
Windows System privilege	Connect Plus is installed with Windows Administrator level permissions
Virus Scanner	All C+ executable files within the C+ folder (typically C:\Programs Files\Connect Plus\) are white listed
Imaging/Ghosting software	Connect Plus directory excluded from rollback policies (typically C:\Programs Files\Connect Plus\)
Windows Update*	Latest Windows updates installed and automatic updates disabled during tests Windows Update FAQs
Virtual Machines	C+ installations are not supported on virtual machines or thin clients

Network

Specifications apply to TSA and CW unless otherwise specified.

	Minimum Specification	Recommended Specification
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Internet Connection	Internet bandwidth: <ul style="list-style-type: none"> Download 512 Kbps per 50 candidates Upload 512 Kbps per 50 candidates 	Internet bandwidth: <ul style="list-style-type: none"> Download >2 Mbps per 50 candidates Upload >1 Mbps per 50 candidates Internet connection maintained during test
Network Connection	TSA: Wired connection: 100 Mbps LAN CW: Wireless/shared bandwidth: 54 Mbps 802.11 g, n, ac or equivalent	TSA & CW: Wired connection: 100 Mbps LAN
Firewall	Access over ports 80 and 443 to domains <ul style="list-style-type: none"> https://integration.connectplus.rm.com/ https://rmcpluslivetests.blob.core.windows.net/ CW: Access to TSAs IP over ports 8080 to 8090	Same as minimum
Install count per network	TSA: Minimum 1, maximum 5. CW: Maximum 300	TSA: 1 TSA for every 100 CWs, + 1 spare CW: 5% of CW count spare
CW:TSA ratio	Maximum ratio 100 CW to 1 TSA per network	Same as minimum
Connection	Tests are administered with CWs connected to a TSA (CWs should only connect directly to the Central System if the TSA and spare TSA cannot be used)	Same as minimum
Moving workstations	Click here for help with moving computers between networks	Workstation computers should not be moved between LANs/VLANs without uninstalling software first

Locations

	Required Specification
TSA Location	Optional
CW Location	Specified
Test sitting Location	Specified – must match Location assigned to CWs that will be used to deliver Test Sitting

Preparation*

	Minimum Specification	Recommended Specification
Familiarisation Test	Carry out a successful Familiarisation Test at every Location no more than 7 days before your next session. <i>or</i> Ensure that you have completed a successful "live" test session no more than 7 days before your next session.	<ul style="list-style-type: none"> Run another Familiarisation Test if any of your computers or network setup have changed significantly since the last test. Run the Familiarisation test on all computers that will be used for testing

Acronyms

* – Asterisk denotes updated requirement	GB - Giga Bytes
C+ - Connect Plus	Mbps - Megabits per second
TSA – Test Sitting Administrator Workstation	Kbps - Kilobits per second
CW – Candidate Workstation	GHz - Gigahertz
LAN - Local Area Network	VLAN - Virtual Local Area Network