



Ivanti Connect Secure Supported Platforms Guide
22.5R2.1-22.1R1

Copyright Notice

This document is provided strictly as a guide. No guarantees can be provided or expected. This document contains the confidential information and/or proprietary property of Ivanti, Inc. and its affiliates (referred to collectively as "Ivanti") and may not be disclosed or copied without prior written consent of Ivanti.

Ivanti retains the right to make changes to this document or related product specifications and descriptions, at any time, without notice. Ivanti makes no warranty for the use of this document and assumes no responsibility for any errors that can appear in the document nor does it make a commitment to update the information contained herein. For the most current product information, please visit www.lvanti.com.

Copyright © 2023, Ivanti, Inc. All rights reserved.

Protected by patents, see <https://www.ivanti.com/patents>.

Contents

Copyright Notice	3
Revision History	5
Introduction	6
Hardware	8
Virtual Appliances Support	8
Windows Supported Platforms	9
Mac OS Supported Platforms	20
Java Supported Platforms	23
Linux Supported Platforms	25
ISA VA Supported Platforms	26
Pulse Secure Installer Service	33
Cross-Platform Features	34
Pulse Secure Application Launcher (PSAL) Support	35
Ivanti Secure Access Client	36
Platform Support for Device Onboarding	37
MDM Solutions	38
Platform Support for AAA	41
Third-Party Applications	44

Revision History

The following table lists the revision history for this document:

Date	Revision	Description
August 2023	22.5R2.1	Updated with build numbers.
June 2023	22.4R2.1	Updated with Advanced HTML5 qualification
April 2023	22.4R2 and 22.4R1	Updated with new qualification
November 2022	22.3R1	Updated with new qualification
April 2022	22.1R1	Updated with new qualification and Compatibilities.
February 2022	21.12R1	Updated ISA Virtual Appliances Platforms details
January 2022	21.12R1	Updated GCP details
October 2021	21.9R1	New Release

Introduction

This document describes the client environments and IT infrastructure that are compatible with this release.

In this document, we identify compatibility testing for this release with the following terminology:

- Qualified (Q) -Indicates that the item was systematically tested by QA for this release.
- Compatible (C)-Indicates that the item was not tested for this release, but based on testing done for previous releases, we support it.

Ivanti supports all items listed as qualified or compatible.

Build Details for 22.5R2.1

- ICS 22.5R2.1 Build 2035
- ISAC 22.3R3 Build 19959

Build Details for 22.4R2.1

- ICS 22.4R2.1 Build 1725
- ISAC 22.3R2 Build 19787

Build Details for 22.4R2

- ICS 22.4R2 Build 1531
- ISAC 22.3R1 Build 18209

Build Details for 22.4R1

- ICS 22.4R1 Build 1439
- ISAC 22.3R1 Build 18209

Build Details for 22.3R1

- ICS 22.3R1 Build 1647
- ISAC 22.3R1 Build 18209

Build Details for 22.2R1

- ICS 22.2R1 Build 657
- PDC 9.1R15 Build 15819
- ISAC 22.2R1 Build 1295

Build Details for 22.1R6

- ICS 22.1R6 Build 575

Build Details for 22.1R1

- ICS 22.1R1 Build 421
- PDC 9.1R14 Build 13525

Hardware

You can install and use Release 22.x software on the following platforms.

- ISA6000 and ISA8000 Appliance with ICS 22.x is supported.

Virtual Appliances Support

- Virtual Appliances (ISA-V) on ESXi, Microsoft Azure, Amazon AWS, Hyper-V, OpenStack KVM, Nutanix, and Google Cloud Platform (GCP).

For more information, refer to ["ISA VA Supported Platforms" on page 26](#).

Windows Supported Platforms

The following table lists the **Supported Windows Platforms vs ICS features**:

Windows Platforms for 22.5R2.1

Windows Platform	Browsers and Java Versions	Admin UI	BY OD	Advanced HTML 5	Host Checker	Cross Platform Features	PS AL	PS IS	Terminal Services	JSA M
Windows 11 : 22H2 (OS Build 22623)	Edge : Version 114.0.18 23.51 (Official build) (64-bit) Chrome : Version 114.0.57 35.134 (Official Build) (64-bit) Fire fox : 102.12.0 esr (32- bit)	Q	Q	Q	Q	Q	Q	Q	Q	Q
Windows 10 : 22H2 (OS Build 19045)	Edge : Version 114.0.18 23.51 (Official build) (64-bit)	Q	Q	Q	Q	Q	Q	Q	Q	Q

Windows Platform	Browsers and Java Versions	Admin UI	BYOD	Advanced HTML5	Host Checker	Cross Platform Features	PSAL	PSIS	Terminal Services	JSAM
	Chrome : Version 114.0.57 35.134 (Official Build) (64-bit) Fire fox : 102.12.0 esr (32- bit)									
Windows 11 : 22H2 (OS Build 23419) (ARM Based)	Edge : Version 114.0.18 23.51 (Official build) (64-bit) Chrome : Version 114.0.57 35.134 (Official Build) (64-bit) Fire fox : 102.12.0 esr (32- bit)	Q	Q	Q	Q	Q	Q	Q	Q	Q

Windows Platform	Browsers and Java Versions	Admin UI	BYOD	Advanced HTML5	Host Checker	Cross Platform Features	PSAL	PSIS	Terminal Services	JSAM
Windows 11 21H2 Professional, 64 bit	Edge 103.0.1264.49 (Official build) (64-bit) Google Chrome 103.0.5060.114 Firefox ESR 78 91.11.0esr (32-bit) Oracle JRE 8 Update 331	C	C	C	C	C	C	C	C	C
Windows 10 21H1 (OS build 10.0.19043.1110) Professional, 64 bit	Edge Google Chrome Firefox ESR 78 Oracle JRE 8 update 321	C	C	C	C	C	C	C	C	C
Windows 10 Version 20H2	Edge Google Chrome Firefox ESR 78	C	C	C	C	C	C	C	C	C

Windows Platform	Browsers and Java Versions	Admin UI	BY OD	Advanced HTML 5	Host Checker	Cross Platform Features	PS AL	PS IS	Terminal Services	JSA M
(OS build 10.0.1904 2.572) Professional, 64 bit	Oracle JRE 8, 9 and 10 update 251									

Windows Platforms for 22.4R2.1, 22.4R2 and 22.4R1

Windows Platform	Browsers and Java Versions	Admin UI	BY OD	Advanced HTML 5	Host Checker	Cross Platform Features	PS AL	PS IS	Terminal Services	JSA M
Windows 11 : 22H2 (OS Build 22623)	Edge : Version 111.0.1661.44 (Official build) (64-bit) Chrome : Version 111.0.5563.65 (Official Build) (64-bit) Fire fox : 102.9.0esr (32-bit)	Q	Q	Q	Q	Q	Q	Q	Q	Q

Windows Platform	Browsers and Java Versions	Admin UI	BYOD	Advanced HTML5	Host Checker	Cross Platform Features	PSAL	PSIS	Terminal Services	JSAM
Windows 10 : 22H2 (OS Build 19045)	Edge : Version 111.0.1661.44 (Official build) (64-bit) Chrome : Version 111.0.5563.65 (Official Build) (64-bit) Fire fox: 102.9.0esr (32-bit)	Q	Q	Q	Q	Q	Q	Q	Q	Q
Windows 11 : 22H2 (OS Build 23419) (ARM Based)	Edge: 111.0.1661.54 (Official build) (64-bit) Chrome: Version 111.0.5563.111 (Official Build) (32-bit)	Q	Q	Q	Q	Q	Q	Q	Q	Q

Windows Platform	Browsers and Java Versions	Admin UI	BYOD	Advanced HTML5	Host Checker	Cross Platform Features	PSAL	PSIS	Terminal Services	JSAM
	Firefox: 102.9.0esr (32 bit)									
Windows 11 21H2 Professional, 64 bit	Edge 103.0.1264.49 (Official build) (64-bit) Google Chrome 103.0.5060.114 Firefox ESR 78 91.11.0esr (32-bit) Oracle JRE 8 Update 331	C	C	C	C	C	C	C	C	C
Windows 10 21H1 (OS build 10.0.19043.1110) Professional, 64 bit	Edge Google Chrome Firefox ESR 78 Oracle JRE 8 update 321	C	C	C	C	C	C	C	C	C

Windows Platform	Browsers and Java Versions	Admin UI	BYOD	Advanced HTML5	Host Checker	Cross Platform Features	PSAL	PSIS	Terminal Services	JSAM
Windows 10 Version 20H2 (OS build 10.0.19042.572) Professional, 64 bit	Edge Google Chrome Firefox ESR 78 Oracle JRE 8, 9 and 10 update 251	C	C	C	C	C	C	C	C	C

Windows Platforms for 22.3R1

Windows Platform	Browsers and Java Versions	Admin UI	BYOD	Advanced HTML5	Host Checker	Cross Platform Features	PSAL	PSIS	Terminal Services	JSAM
Windows 11 : 22H2 (OS Build 22623)	Edge : Version 107.0.1418.26 (Official build) (64-bit) Chrome : Version 107.0.5304.88 (Official Build) (64-bit)	Q	Q	Q	Q	Q	Q	Q	Q	Q

Windows Platform	Browsers and Java Versions	Admin UI	BYOD	Advanced HTML5	Host Checker	Cross Platform Features	PSAL	PSIS	Terminal Services	JSAM
	Firefox : 102.4.0esr (32-bit) Java 8 update 351									
Windows 10 : 22H2 (OS Build 19045)	Edge : Version 107.0.1418.26 (Official build) (64-bit) Chrome : Version 107.0.5304.88 (Official Build) (64-bit) Firefox : 102.4.0esr (32-bit) Java 8 update 351	Q	Q	Q	Q	Q	Q	Q	Q	Q
Windows 11 21H2 Professional, 64 bit	Edge 103.0.1264.49 (Official build) (64-bit)	C	C	C	C	C	C	C	C	C

Windows Platform	Browsers and Java Versions	Admin UI	BYOD	Advanced HTML5	Host Checker	Cross Platform Features	PSAL	PSIS	Terminal Services	JSAM
	Google Chrome 103.0.5060.114 Firefox ESR 78.91.11.0esr (32-bit) Oracle JRE 8 Update 331									
Windows 10 21H1 (OS build 10.0.19043.1110) Professional, 64 bit	Edge Google Chrome Firefox ESR 78 Oracle JRE 8 update 321	C	C	C	C	C	C	C	C	C
Windows 10 Version 20H2 (OS build 10.0.19042.572) Professional, 64 bit	Edge Google Chrome Firefox ESR 78 Oracle JRE 8, 9 and 10 update 251	C	C	C	C	C	C	C	C	C

Windows Platforms for 22.2R1 and 22.1R1

Windows Platform	Browsers	Admin UI	BYOD	Advanced HTML5	Host Checker	Cross Platform Features	PSAL	PSIS	Terminal Services	JSAM
Windows 11 21H2 Professional, 64 bit	Edge 103.0.1264.49 (Official build) (64-bit) Google Chrome 103.0.5060.114 Firefox ESR 78.91.11.0esr (32-bit) Oracle JRE 8 Update 331	Q	Q	Q	Q	Q	Q	Q	Q	Q
Windows 10 21H1 (OS build 10.0.19043.1110) Professional, 64 bit	Edge Google Chrome Firefox ESR 78 Oracle JRE 8 update 321	Q	Q	Q	Q	Q	Q	Q	Q	Q
Windows 10 Version 20H2	Edge Google Chrome	C	C	C	C	C	C	C	C	C

Windows Platform	Browsers	Admin UI	BYOD	Advanced HTML5	Host Checker	Cross Platform Features	PSAL	PSIS	Terminal Services	JSAM
(OS build 10.0.1904 2.572) Professional, 64 bit	Firefox ESR 78 Oracle JRE 8, 9 and 10 update 251									

Mac OS Supported Platforms

The following table lists the **supported Mac OS platforms vs ICS features**:

Mac OS platforms for 22.5R2.1, 22.4R2.1, 22.4R2 and 22.4R1

Mac Platform	Browsers and Java Versions	Admin UI	BYOD	Advanced HTML5	Cross Platform Features	Host Checker	PSAL	JSAM
MAC OS Ventura 13.2.1 (M1)	Safari 16.0, Chrome107,	Q	Q	Q	Q	Q	Q	Q
MAC OS Monterey 12.6 (M2)	Safari 16.0, Chrome107,	Q	Q	Q	Q	Q	Q	Q
MAC OS Monterey 12.6 (Intel)	Safari 16.3, Chrome107	Q	Q	Q	Q	Q	Q	Q
Mac OS Big Sur Version 11.6 (Safari 14.0 , Chrome 86 , Java 8 update 291	C	C	C	C	C	C	C

Mac OS platforms for 22.3R1

Mac Platform	Browsers and Java Versions	Admin UI	BYOD	Advanced HTML5	Cross Platform Features	Host Checker	PSAL	JSAM
MAC OS Monterey 12.6 (Intel)	Safari 16.0, Chrome 107, Java 8 update 351	Q	Q	Q	Q	Q	Q	Q
Mac OS Big Sur Version 11.6	Safari 14.0, Chrome 86, Java 8 update 291	C	C	C	C	C	C	C

Mac OS platforms for 22.2R1 and 22.1R1

Mac Platform	Browsers	Admin UI	BYOD	Advanced HTML5	Cross Platform Features	Host Checker	PSAL	JSAM
MAC OS Monterey Version 12.0 (Intel)	Safari 15.0, Java 8 update 301	Q	Q	Q	Q	Q	Q	Q

Mac Platform	Browsers	Admin UI	BYOD	Advanced HTML5	Cross Platform Features	Host Checker	PSAL	JSAM
Mac OS Big Sur Version 11.6	Safari 14.0 , Chrome 86 , Java 8 update 291	C	C	C	C	C	C	C
Mac OS Big Sur Version 11.4	Safari 14.0, Chrome 86, Java 8 update 291	C	C	C	C	C	C	C
Mac OS Big Sur Version 11.0.1 (20B29)	Safari 14.0 and Chrome 86	C	C	C	C	C	C	C

Java Supported Platforms

The following table lists the **supported Java platforms**:

Java Supported platforms for 22.5R2.1

Platform	Qualified Java version
Windows 11 : 22H2 (OS Build 22623)	Open JDK-17 Oracle Java 8 update 371.
Windows 10 : 22H2 (OS Build 19045)	Open JDK-17 Oracle Java 8 update 371.
MAC OS Ventura 13.2.1 (M1)	Open JDK-17
MAC OS Monterey Version 12.0 (Intel)	Open JDK-17 Oracle Java 8 update 371.

Java Supported platforms for 22.4R2.1, 22.4R2 and 22.4R1

Platform	Qualified Java version
Windows 11 : 22H2 (OS Build 22623)	Open JDK-17 Oracle Java 8 update 361.
Windows 10 : 22H2 (OS Build 19045)	Open JDK-17 Oracle Java 8 update 361.
MAC OS Ventura 13.2.1 (M1)	Open JDK-17
MAC OS Monterey Version 12.0 (Intel)	Open JDK-17 Oracle Java 8 update 361.

Java Supported platforms for 22.3R1

Platform	Qualified Java version
Windows 11 : 22H2 (OS Build 22623)	Oracle Java 8 update 351.
Windows 10 : 22H2 (OS Build 19045)	Oracle Java 8 update 351.
MAC OS Monterey 12.6 (Intel)	Oracle Java 8 update 351.

Java Supported platforms for 22.2R1 and 22.1R1

Platform	Qualified Java version
Windows 11 21H2 Professional, 64 bit	Oracle Java 8 update 331.
Windows 10 21H1 (OS build 10.0.19043.1110) Professional, 64 bit	Oracle Java 8 update 321.
MAC OS Monterey Version 12.0 (Intel)	Oracle Java 8 update 301.

Linux Supported Platforms

The following table lists the **supported Linux platforms vs ICS features**:

Linux Platforms for 22.5R2.1, 22.4R2.1, 22.4R2, 22.4R1, 22.1R1, 22.2R1 and 22.3R1

Linux Platform	Browsers	Admin UI	PSAL	JSAM
Ubuntu 20.04 LTS	Firefox ESR 78.12, 64-bit	Q	Q	Q
Ubuntu 16.04 LTS	Firefox ESR 78.7.1, 64-bit	C	C	C
Ubuntu 18.04 LTS	Firefox ESR 78.7.1, 64-bit	C	C	C

ISA VA Supported Platforms

The following table lists supported ISA Virtual Appliances Platforms:

ISA VA Platforms for 22.5R2.1, 22.4R2.1, 22.4R2, 22.4R1, and 22.3R1

Hypervisor Platform	Qualified	Compatible	Qualified Cloud VM Types/Equivalent ISA-V
VMware			
ESXi 7.0.2	Q		(4 vCPUs / ISA4000-v), (8 vCPUs,ISA6000-v), (12 vCPUs, ISA8000-v)
ESXi 6.7 Update 2c	Q		(4 vCPUs / ISA4000-v), (8 vCPUs,ISA6000-v), (12 vCPUs, ISA8000-v)
ESXi 6.5		C	(4 vCPUs / ISA4000-v), (8 vCPUs,ISA6000-v), (12 vCPUs, ISA8000-v)
AWS	Q		<ul style="list-style-type: none"> • m5.xlarge/ ISA4000-V • m5.2xlarge/ ISA6000-V • m5.4xlarge/ ISA8000-V • t3.xlarge/ ISA4000-V • t3.2xlarge/ ISA6000-V
Azure	Q		<ul style="list-style-type: none"> • Standard_DS3_v2/ ISA4000-V • Standard_DS4_v2/ ISA6000-V

Hypervisor Platform	Qualified	Compatible	Qualified Cloud VM Types/Equivalent ISA-V
			<ul style="list-style-type: none"> • Standard_D4s_v3/ ISA4000-V Note: Supports only 2 NIC deployment. 3 NIC deployment is currently unsupported. • Standard_D8s_v3/ ISA6000-V • Standard_D16s_v3/ ISA8000-V • F4s_v2/ ISA4000-V • F8s_v2/ ISA6000-V • F16s_v2/ ISA8000-V
GCP	Q		<ul style="list-style-type: none"> • n2-standard-4 (4 vCPU 16 GB)/ ISA 4000-V • n2-standard-8 (8 vCPU 32 GB)/ ISA 6000-V • n2-standard-16 (16 vCPU 64 GB)/ ISA 8000-V • c2-standard-8 (8 vCPU 64 GB)/ ISA6000-V

Hypervisor Platform	Qualified	Compatible	Qualified Cloud VM Types/Equivalent ISA-V
			<ul style="list-style-type: none"> n1-standard-4 (4 vCPU 16 GB)/ ISA400-V
OpenStack KVM			
OpenStack Wallaby on Ubuntu 20.04 LTS	Q		(4 vCPUs / ISA4000-v), (8 vCPUs,ISA6000-v), (12 vCPUs, ISA8000-v)
Hyper-V			
Microsoft Hyper-V Server 2016 and 2019	Q		(4 vCPUs / ISA4000-v), (8 vCPUs,ISA6000-v), (12 vCPUs, ISA8000-v)
Nutanix			
AHV 2021	Q		(4 vCPUs / ISA4000-v), (8 vCPUs,ISA6000-v), (12 vCPUs, ISA8000-v)

ISA VA Platforms for 22.2R1

Hypervisor Platform	Qualified	Compatible	Qualified Cloud VM Types/Equivalent ISA-V
VMware			
ESXi 7.0.2	Q		(4 vCPUs / ISA4000-v), (8 vCPUs,ISA6000-v), (12 vCPUs, ISA8000-v)
ESXi 6.7 Update 2c	Q		(4 vCPUs / ISA4000-v), (8 vCPUs,ISA6000-v), (12 vCPUs, ISA8000-v)
ESXi 6.5		C	(4 vCPUs / ISA4000-v), (8 vCPUs,ISA6000-v), (12 vCPUs, ISA8000-v)

Hypervisor Platform	Qualified	Compatible	Qualified Cloud VM Types/Equivalent ISA-V
AWS	Q		<ul style="list-style-type: none"> • m5.xlarge/ISA4000-V • m5.2xlarge/ISA6000-V • m5.4xlarge/ISA8000-V • t3.xlarge/ISA4000-V • t3.2xlarge/ISA6000-V
Azure	Q		<ul style="list-style-type: none"> • Standard_DS3_v2/ISA4000-V • Standard_DS4_v2/ISA6000-V • Standard_D4s_v3/ISA4000-V <p>Note: Supports only 2 NIC deployment. 3 NIC deployment is currently unsupported.</p> <ul style="list-style-type: none"> • Standard_D8s_v3/ISA6000-V • Standard_D16s_v3/ISA8000-V
GCP	Q		<ul style="list-style-type: none"> • n2-standard-4 (4 vCPU 16 GB)/ISA 4000-V

Hypervisor Platform	Qualified	Compatible	Qualified Cloud VM Types/Equivalent ISA-V
			<ul style="list-style-type: none"> n2-standard-8 (8 vCPU 32 GB)/ ISA 6000-V n2-standard-16 (16 vCPU 64 GB)/ ISA 8000-V c2-standard-8 (8 vCPU 64 GB)/ ISA6000-V n1-standard-4 (4 vCPU 16 GB)/ ISA400-V
OpenStack KVM			
OpenStack Wallaby on Ubuntu 20.04 LTS	Q		(4 vCPUs / ISA4000-v), (8 vCPUs,ISA6000-v), (12 vCPUs, ISA8000-v)
Hyper-V			
Microsoft Hyper-V Server 2016 and 2019	Q		(4 vCPUs / ISA4000-v), (8 vCPUs,ISA6000-v), (12 vCPUs, ISA8000-v)

ISA VA Platforms for 22.1R1

Hypervisor Platform	Qualified	Compatible	Qualified Cloud VM Types/Equivalent ISA-V
VMware			
ESXi 7.0.2	Q		(4 vCPUs / ISA4000-v), (8 vCPUs,ISA6000-v), (12 vCPUs, ISA8000-v)

Hypervisor Platform	Qualified	Compatible	Qualified Cloud VM Types/Equivalent ISA-V
ESXi 6.7 Update 2c	Q		(4 vCPUs / ISA4000-v), (8 vCPUs,ISA6000-v), (12 vCPUs, ISA8000-v)
ESXi 6.5		C	(4 vCPUs / ISA4000-v), (8 vCPUs,ISA6000-v), (12 vCPUs, ISA8000-v)
AWS	Q		<ul style="list-style-type: none"> • m5.xlarge/ ISA4000-V • m5.2xlarge/ ISA6000-V • m5.4xlarge/ ISA8000-V • t3.xlarge/ ISA4000-V • t3.2xlarge/ ISA6000-V
Azure	Q		<ul style="list-style-type: none"> • Standard_DS3_v2/ ISA4000-V • Standard_DS4_v2/ ISA6000-V • Standard_D4s_v3/ ISA4000-V <p>Note: Supports only 2 NIC deployment. 3 NIC deployment is currently unsupported.</p> <ul style="list-style-type: none"> • Standard_D8s_v3/ ISA6000-V

Hypervisor Platform	Qualified	Compatible	Qualified Cloud VM Types/Equivalent ISA-V
			<ul style="list-style-type: none"> Standard_D16s_v3/ ISA8000-V
GCP	Q		<ul style="list-style-type: none"> n2-standard-4 (4 vCPU 16 GB)/ ISA 4000-V n2-standard-8 (8 vCPU 32 GB)/ ISA 6000-V n2-standard-16 (16 vCPU 64 GB)/ ISA 8000-V c2-standard-8 (8 vCPU 64 GB)/ ISA6000-V n1-standard-4 (4 vCPU 16 GB)/ ISA400-V

Pulse Secure Installer Service

Pulse Secure Installer Service is supported for the following client applications:

- Host Checker
- Terminal Services

Cross-Platform Features

The Ivanti Connect Secure supports the following features on multiple platforms:

- File Browsing



Rewriting via Mobile devices is not supported/qualified.

- HTML5 RDP
- Java Secure Application Manager (JSAM)
- Web Browsing

Pulse Secure Application Launcher (PSAL) Support

Ivanti Connect Secure uses, "Pulse Secure Application Launcher" (PSAL), for launching and installing Pulse Secure clients from a web browser which have deprecated Java Plugin, ActiveX technologies and have restrictions on Java.

- Supported on Mozilla Firefox, Google Chrome & Edge Browser on Windows Platform.
- Supported on Safari and Chrome on Mac OS.

Details are listed in Windows Supported Platforms.

Pulse Application Launcher supports delivery & installation of following Components:

- Ivanti Secure Client Access
- Host Checker
- Terminal Services
- Java Secure Application Manager

Ivanti Secure Access Client

For more information, see the Ivanti Secure Access Client [Supported Platforms Guide](#).

Platform Support for Device Onboarding

The following **Device Onboarding Features** table lists Device onboarding features that are qualified with this release:

Device Onboarding for 22.5R2.1, 22.4R2.1, 22.4R2 22.4R1, and 22.3R1

Operating System/Feature	VPN Profile	Certificate Profile	WiFi Profile
IOS 15.5	Q	Q	Q
Android 12 and 11.x	Q	Q	Q
Windows 11,10	-	Q	Q
Mac OS X 10.12, Safari 9.0 & Safari 10.0 Mac OS X 10.10.5, Safari 8.0.8	-	Q	Q
Mac OS Big Sur Version 11.0.1 (20B29)	-	Q	Q

Device Onboarding for 22.2R2 and 22.1R1

Operating System/Feature	VPN	Certificate	WiFi
IOS 14.x, 13.x, 12.x, 11.x, 10.x, 9.x	Q	Q	Q
Android 11.x, 10.x, 9.x, 8.x	Q	Q	Q
Windows 10	-	Q	Q
Mac OS X 10.12, Safari 9.0 & Safari 10.0 Mac OS X 10.10.5, Safari 8.0.8	-	Q	Q
Mac OS Big Sur Version 11.0.1 (20B29)	-	Q	Q

MDM Solutions

The following **MDM Vendors** table lists the requirements for integration with mobile device management (MDM) vendors: Change as per bugs

Mobile Device Management for 22.5R2.1

Solution	Supported Version
VMWare Workspace One (formerly Airwatch)	
VMWare Workspace One (formerly Airwatch) Cloud Intelligent Hub Application	22.4.0.6 (2204) 22.06.0.11; Android version 12 iOS version 15.5
Ivanti (formerly MobileIron)	
Endpoint Manager Mobile (formerly MobileIron Core)	Core 11.8.0.0 Build 29
Mobile work application on endpoint	11.10.0.0.71R ; Android OS: 13, Model: Pixel5 12.11.101a; iOS: 16, iPhone 12 pro
Neurons for MDM (formerly MobileIron Cloud)	MI cloud server version : Cloud 91
MobileIron go version	89.1.0.4(20084); Android OS: 13, Model: Pixel 5 90.0.1.a; iOS: 16, iPhone 12 pro
Microsoft Intune	
Cloud service	Release version 2106

Mobile Device Management for 22.4R2.1, 22.4R2 and 22.4R1

Solution	Supported Version
VMWare Workspace One (formerly Airwatch)	
VMWare Workspace One (formerly Airwatch) Cloud Intelligent Hub Application	22.4.0.6 (2204) 22.06.0.11;

Solution	Supported Version
	Android version 12 iOS version 15.5
Ivanti (formerly MobileIron)	
Endpoint Manager Mobile (formerly MobileIron Core)	Core 11.8.0.0 Build 29
Mobile work application on endpoint	(11.10.0.0.7R)11.9.0.1 ; Android OS: 13, Model: Pixel5 (12.11.101a) 12.11.90a; iOS: 16, iPhone 12 pro
Neurons for MDM (formerly MobileIron Cloud)	MI cloud server version : Cloud 89 (91 with new)
MobileIron go version	89.1.0.4(20084); Android OS: 13, Model: Pixel 5 (90.0.1.a) 89.0.0a; iOS: 16, iPhone 12 pro
Microsoft Intune	
Cloud service	Release version 2106

Mobile Device Management for 22.3R1

Solution	Supported Version
VMWare Workspace One (formerly Airwatch)	
VMWare Workspace One (formerly Airwatch) Cloud Intelligent Hub Application	22.4.0.6 (2204) 22.06.0.11; Android version 12 iOS version 15.5
Ivanti (formerly MobileIron)	
Endpoint Manager Mobile (formerly MobileIron Core)	Core 11.5.0.0 Build 11
Mobile work application on endpoint	11.7.1.0.8R(662) Android OS: 13, Model: Pixel5 12.11.71a iOS: 16, iPhone 12 pro
Neurons for MDM (formerly MobileIron Cloud)	MI cloud server version : Cloud 87

Solution	Supported Version
MobileIron go version	85.2.0.6 Android OS: 13, Model: Pixel 5 85.1.0a(85.1.0.11 64-bit) iOS: 16, iPhone 12 pro
Microsoft Intune	
Cloud service	Release version 2106

Mobile Device Management for 22.2R1 and 22.1R1

Solution	Qualified	Compatible
AirWatch		
Cloud service	19.11.1.5	19.03.0.6
Appliance OS		C
Virtual appliance OS	Q	
MobileIron		
MobileIron Core	11.5.0.0 Build 11	
Mobile work	11.6.0.1.1R(652) 2022/04/07	
Microsoft Intune		
Cloud service	Release version 2106	

Platform Support for AAA

The following **Third-Party AAA Servers** table lists supported third-party AAA servers:

Third-Party AAA Servers for 22.5R2.1, 22.4R2.1, 22.4R2, 22.4R1, and 22.3R1

Third-Party AAA Server	Qualified	Compatible
Active Directory*	Windows Server 2022 Windows Server 2019 Windows Server 2016	Windows Server 2012 R2**
LDAP using Microsoft Active Directory	Windows Server 2022 Windows Server 2019 Windows Server 2016	Windows Server 2012 R2
LDAP (other standards-compliant servers)	OpenLDAP 2.3.27	C Authentication and authorization based on user attributes or group membership.
RADIUS	Radius Server 3.0.26 Steel-Belted RADIUS (SBR) 6.1 Defender 5.2 RSA Authentication Manager 8.4.0.3.0	Azure MFA Radius Windows IAS 2008 RSA Authentication Manager 8.3
RADIUS IPv6 Support	Steel-Belted RADIUS (SBR) 6.1	Windows NPS 2012 R2 Free-RADIUS 2.1
RADIUS (other standards-compliant servers)		C
ACE	RSA Server 8.7 RSA Authentication Manager 8.5	RSA Authentication Manager 8.3 RSA Authentication Manager 8.2 RSA Authentication Manager 8.1 RSA Authentication Manager 8.0 SP4
Certificate	Windows Server 2022 Windows Server 2019 Windows Server 2016	RSA Keon Certificate Manager 6.5.1 Windows Server 2012 R2

Third-Party AAA Server	Qualified	Compatible
Certificate (other standards-compliant servers)		C
SAML*** 2.0, 1.1	PingFederate 6.4.1.1	Azure AD Microsoft ADFS 2.0 (Server 2008 R2) Oracle Identity Federation 11.1.1.2.0
SAML 2.0, 1.1 (other standards-compliant servers)		C
OAuth 2.0	Q	OpenID providers
<p>*Additional requirements and limitations apply. See Active Directory section in the ICS Administration Guide.</p> <p>** Applicable only for New AD mode Auth server.</p> <p>***For information on the SAML SSO profiles, bindings, and protocols that we support, see Supported SAML SSO Profiles section in the ICS Administration Guide.</p>		

Third-Party AAA Servers for 22.2R1 and 22.1R1

Third-Party AAA Server	Qualified	Compatible
Active Directory*	Windows Server 2019 Windows Server 2016 Windows Server 2012 R2**	Windows Server 2008 R2 Windows Server 2003
LDAP using Microsoft Active Directory	Windows Server 2019 Windows Server 2016 Windows Server 2012 R2	Windows Server 2008 R2 Windows Server 2003
LDAP (other standards-compliant servers)	OpenLDAP 2.3.27	C Authentication and authorization based on user attributes or group membership.
RADIUS	Steel-Belted RADIUS (SBR) 6.1 Defender 5.2	Azure MFA Radius Windows IAS 2008 RSA Authentication Manager 8.3

Third-Party AAA Server	Qualified	Compatible
	RSA Authentication Manager 8.4.0.3.0	
RADIUS IPv6 Support	Steel-Belted RADIUS (SBR) 6.1	Windows NPS 2012 R2 Free-RADIUS 2.1
RADIUS (other standards-compliant servers)		C
ACE	RSA Authentication Manager 8.4.0.3.0	RSA Authentication Manager 8.3 RSA Authentication Manager 8.2 RSA Authentication Manager 8.1 RSA Authentication Manager 8.0 SP4
Certificate	Windows Server 2019 Windows Server 2016 Windows Server 2012 R2	RSA Keon Certificate Manager 6.5.1
Certificate (other standards-compliant servers)		C
SAML*** 2.0, 1.1	PingFederate 6.4.1.1	Azure AD Microsoft ADFS 2.0 (Server 2008 R2) Oracle Identity Federation 11.1.1.2.0
SAML 2.0, 1.1 (other standards-compliant servers)		C
OAuth 2.0	Q	OpenID providers
<p>*Additional requirements and limitations apply. See Active Directory section in the ICS Administration Guide.</p> <p>** Applicable only for New AD mode Auth server.</p> <p>***For information on the SAML SSO profiles, bindings, and protocols that we support, see Supported SAML SSO Profiles section in the ICS Administration Guide.</p>		

Third-Party Applications

The following **Third-Party Applications** table lists supported third-party applications:

Third-Party Applications for 22.5R2.1, 22.4R2.1, 22.4R2, 22.4R1, and 22.3R1

Application	Support Summary	Qualified	Compatible
Outlook Web Access (OWA)			
OWA 2016 and above	Web Profiles (Rewriter, Passthrough Proxy)	Q	
OWA 2013 SP1	Web Profiles (Rewriter, Passthrough Proxy)		C
OWA 2010 SP2, SP1	Web Profiles (Rewriter, Passthrough Proxy)		C
SharePoint			
SharePoint 2019 (Classic UI only)	Web Profiles (Rewriter, Passthrough Proxy)	Q	
SharePoint 2016	Web Profiles (Rewriter, Passthrough Proxy)		C
SharePoint 2013 SP1	Web Profiles (Rewriter, Passthrough Proxy)		C
SharePoint 2010, 2007	Web Profiles (Rewriter, Passthrough Proxy)		C
IBM Domino			
Lotus iNotes 7.0, 8.0, 8.5 and above	Web Profiles (Rewriter, Passthrough Proxy)	Q	
Citrix			
Citrix Virtual Apps and Desktops 7 2206	HTML5 Access and CTS	Q	
Citrix StoreFront 2206	HTML5 Access and CTS	Q	

Application	Support Summary	Qualified	Compatible
Citrix Workspace version 2109	Web, Terminal Services and SAM Profile	Q	
Citrix Virtual Apps and Desktops 7 2206	Citrix Terminal Services	Q	
Citrix Virtual Apps and Desktops 7 2206	VDI Profiles	Q	
Citrix Virtual Apps and Desktops 7 below 1912	HTML5 Access and CTS		C
Citrix StoreFront 1912 LTSR	HTML5 Access and CTS		C
Citrix StoreFront versions 3.16 and below	HTML5 Access and CTS		C
Citrix StoreFront with HTML5 Access	Custom Web Profile		C
Citrix Listed Applications with Server 6.5 SP1, 6.0, 7.6, 7.8	Citrix Terminal Services		C
Citrix Workspace version 2002	Web, Terminal Services and SAM Profile		C
Citrix Receiver versions below 4.11	Web, Terminal Services and SAM Profile		C
Citrix Virtual Apps and Desktops 7 1912 LTSR	Citrix Terminal Services		C
Citrix XenApp and XenDesktop 7.18 and below	Citrix Terminal Services		C
Citrix Virtual Apps and Desktops 7 1912 LTSR	VDI Profiles		C
Citrix XenDesktop 7.15 and below	VDI Profiles		C
Advanced HTML5			
RDP	Back end Windows Desktops (Windows 10/11 and Windows Server)	Q	

Application	Support Summary	Qualified	Compatible
SSH,TELNET	Ubuntu and Linux	Q	
VNC	Ubuntu and MAC desktops	Q	
VMWare			
VMWare View Connection Server version 8.6.0.20099816	Rewriter	Q	
VMWare Horizon Agent version 8.6.0.20088748(2206)	VDI Profiles	Q	
VMWare Horizon View HTML Access version 8.6.0.20099642	VDI Profiles	Q	
VMWare Horizon View HTML Access versions below 5.4	VDI Profiles	Q	
VMWare Horizon View Client version 8.2.0.18176	VDI Profiles	Q	
VMWare Horizon View Connection Server version 8.0, 8.1	Rewriter		C
VMWare Horizon View Connection Server version 7.12	Rewriter		C
VMWare Horizon View Connection Server version 7.12	Rewriter		C
VMWare Horizon View Connection Server versions below 7.12	Rewriter		C
VMWare Horizon Agent versions below 7.12	VDI Profiles		C
VMWare Horizon View HTML Access versions below 5.4	VDI Profiles		C
VMWare Horizon View Client version 5.4	VDI Profiles		C
VMWare Horizon View Client versions below 5.4	VDI Profiles		C

Application	Support Summary	Qualified	Compatible
Exchange ActiveSync			
Office 365	Secure Mail Resource Profile	Q	
Exchange 2019	Secure Mail Resource Profile	Q	
Exchange 2016	Secure Mail Resource Profile		C
ESAP Package			
ESAP 4.0.5 (default version)	Host Checker	Q	
ESAP 3.3.5 (minimum version)	Host Checker	Q	

Third-Party Applications for 22.2R1 and 22.1R1

Application	Support Summary	Qualified	Compatible
Outlook Web Access (OWA)			
OWA 2016 and above	Web Profiles (Rewriter, Passthrough Proxy)	Q	
OWA 2013 SP1	Web Profiles (Rewriter, Passthrough Proxy)		C
OWA 2010 SP2, SP1	Web Profiles (Rewriter, Passthrough Proxy)		C
SharePoint			
SharePoint 2019 (Classic UI only)	Web Profiles (Rewriter, Passthrough Proxy)	Q	
SharePoint 2016	Web Profiles (Rewriter, Passthrough Proxy)		C
SharePoint 2013 SP1	Web Profiles (Rewriter, Passthrough Proxy)		C

Application	Support Summary	Qualified	Compatible
SharePoint 2010, 2007	Web Profiles (Rewriter, Passthrough Proxy)		C
IBM Domino			
Lotus iNotes 7.0, 8.0, 8.5 and above	Web Profiles (Rewriter, Passthrough Proxy)	Q	
Citrix			
Citrix Virtual Apps and Desktops 7 1912 LTSR	HTML5 Access and CTS	Q	
Citrix Virtual Apps and Desktops 7 below 1912	HTML5 Access and CTS		C
Citrix StoreFront 1912 LTSR	HTML5 Access and CTS	Q	
Citrix StoreFront versions 3.16 and below	HTML5 Access and CTS		C
Citrix StoreFront with HTML5 Access	Custom Web Profile		C
Citrix Listed Applications with Server 6.5 SP1, 6.0, 7.6, 7.8	Citrix Terminal Services		C

Application	Support Summary	Qualified	Compatible
Citrix Workspace version 2002	Web, Terminal Services and SAM Profile	Q	
Citrix Receiver versions below 4.11	Web, Terminal Services and SAM Profile		C
Citrix Virtual Apps and Desktops 7 1912 LTSR	Citrix Terminal Services	Q	
Citrix XenApp and XenDesktop 7.18 and below	Citrix Terminal Services		C
Citrix Virtual Apps and Desktops 7 1912 LTSR	VDI Profiles	Q	
Citrix XenDesktop 7.15 and below	VDI Profiles		C
VMWare			
VMWare Horizon View Connection Server version 8.0, 8.1	Rewriter	Q	
VMWare Horizon View Connection Server version 7.12	Rewriter	Q	

Application	Support Summary	Qualified	Compatible
VMWare Horizon View Connection Server version 7.12	Rewriter	Q	
VMWare Horizon View Connection Server versions below 7.12	Rewriter		C
VMWare Horizon Agent version 8.0, 8.1	VDI Profiles	Q	
VMWare Horizon Agent version 7.12	VDI Profiles	Q	
VMWare Horizon Agent versions below 7.12	VDI Profiles		C
VMWare Horizon View HTML Access version 5.4	VDI Profiles	Q	
VMWare Horizon View HTML Access versions below 5.4	VDI Profiles		C
VMWare Horizon View Client version 8.0	VDI Profiles	Q	

Application	Support Summary	Qualified	Compatible
VMWare Horizon View Client version 5.4	VDI Profiles	Q	
VMWare Horizon View Client versions below 5.4	VDI Profiles		C
VMWare View Server version 4.6, 5.0, 5.1, 2.3.x	VDI Profiles		C
Exchange ActiveSync			
Office 365	Secure Mail Resource Profile	Q	
Exchange 2019	Secure Mail Resource Profile	Q	
Exchange 2016, 2013, 2010 SP1, and 2007	Secure Mail Resource Profile		C
ESAP Package			
ESAP 3.7.5 (default version)	Host Checker	Q	
ESAP 3.3.5 (minimum version)	Host Checker	Q	