



Cisco vWAAS on Cisco ISR-WAAS

This chapter describes how to use Cisco vWAAS on Cisco ISR-WAAS, and contains the following sections:

- [About Cisco ISR-WAAS](#)
- [Supported Host Platforms, Software Versions, and Disk Types](#)
- [Cisco OVA Packages for vWAAS on ISR-WAAS](#)
- [Deploying and Managing vWAAS on ISR-WAAS](#)

About Cisco ISR-WAAS

ISR-WAAS is the specific implementation of vWAAS running in a Cisco IOS-XE Software container on a Cisco ISR 4000 Series router (ISR-4321, ISR-4331, ISR-4351, ISR-4431, ISR-4451). In this context, “container” refers to the hypervisor that runs virtualized applications on a Cisco ISR 4000 Series router.



Note

For vWAAS for WAAS 6.4.1b and later, ISR-4461 is also supported.

[Table 3-1](#) shows the default number of CPUs, memory capacity, disk storage and supported ISR platforms for each ISR model.



Note

We recommend you use ISR-WAAS-200 with vWAAS for WAAS 6.4.1c and later; this configuration reduces overall ISR-4321 memory by 3%.

Table 3-1 *ISR Models: CPUs, Memory, Disk Storage and Supported ISR Platforms*

ISR WAAS Model	CPUs	Memory	Disk Storage	Supported ISR Platform
ISR-WAAS-200 (for WAAS 5.x and 6.2.1)	1	3 GB	151 GB	ISR-4321
ISR-WAAS-200 (for WAAS 6.2.3x and later)	1	4 GB	151 GB	ISR-4321
ISR-WAAS-200 (for WAAS 6.4.1c and later)	1	3.75 GB	151 GB	ISR-4321
ISR-WAAS-750	2	4 GB	151 GB	ISR-4351, ISR-4331, ISR-4431, ISR-4451

ISR WAAS Model	CPUs	Memory	Disk Storage	Supported ISR Platform
750 ISR WAAS (for WAAS 6.4.1b and later)	2	4 GB	151 GB	ISR-4351, ISR-4331, ISR-4431, ISR-4451, ISR-4461
1300 ISR WAAS	4	6 GB	151 GB	ISR-4431, ISR-4451
1300 ISR WAAS (for WAAS 6.4.1b and later)	4	6 GB	151 GB	ISR-4431, ISR-4451, ISR-4461
2500 ISR WAAS	6	8 GB	338 GB	ISR-4451
2500 ISR WAAS (for WAAS 6.4.1b and later)	6	8 GB	338 GB	ISR-4451, ISR-4461

Operating Guidelines for ISR-WAAS:

- For vWAAS with WAAS Version 6.2.3c or later, for ISR-4321 with profile ISR-WAAS-200, the ISR-WAAS RAM is increased from 3 GB to 4 GB. For this increase in ISR-WAAS RAM to be implemented, you must complete a new OVA deployment of WAAS version 6.2.3c or later. The increase in ISR-WAAS RAM is not automatically implemented with an upgrade to WAAS Version 6.2.3c or later.
 - For ISR-WAAS-200 in ISR-4321 with IOS-XE 16.x, 4 GB of memory is mandatory.
 - For ISR-WAAS-200 in ISR-4321 with IOX-XE 3.x, 3 GB of memory is recommended; 4 GB of memory is optional.



Note

ISR-4321 with IOS-XE 16.9.x is supported for vWAAS for WAAS Version 6.4.1b and later.

Supported Host Platforms, Software Versions, and Disk Types

Table 3-2 shows the platforms and software versions supported for vWAAS on ISR-WAAS.

Table 3-2 Platforms and Software Versions Supported for vWAAS on ISR-WAAS

PID and Device Type	Minimum WAAS Version	Host Platforms	Minimum IOS Version	Disk Type
PID: OE-VWAAS-KVM	6.4.1b	ISR-4461 (vWAAS-750, 1300, 2500)	IOS-XE 3.9	ISR-SSD NIM-SSD
Device Type: ISR-WAAS	5.4.1	ISR-4451 (vWAAS-750, 1300, 2500)		
	5.2.1 (ISR-4451)	ISR-4431 (vWAAS-750, 1300)		
		ISR-4351 (vWAAS-750)		
		ISR-4331 (vWAAS-750)		
		ISR-4321 (vWAAS-200)		

Cisco OVA Packages for vWAAS on ISR-WAAS

Cisco provides an OVA or NPE OVA package for vWAAS on ISR-WAAS in the formats shown in [Table 3-3](#).

Table 3-3 Cisco OVA Package Formats for vWAAS on ISR-WAAS

Package Format	File Format Example
Cisco ISR WAAS (200, 750, 1300, 2500) NPE OVA file	ISR-WAAS-6.4.1a.68-npe.ova
Cisco ISR WAAS (200, 750, 1300, 2500) OVA file	ISR-WAAS-6.4.1a.68.ova

For a listing of hypervisor OVA and NPE OVA files for vWAAS, see the [Cisco Wide Area Application Services \(WAAS\) Download Software Page](#) and select the WAAS software version used with your vWAAS instance.

Deploying and Managing vWAAS on ISR-WAAS

This section contains the following topics:

- [Components for Deploying and Managing vWAAS on ISR-WAAS](#)
- ISR-WAAS DRE Disk, Object Cache, and Akamai Connect Cache

ISR-WAAS DRE Disk, Object Cache, and Akamai Connect Cache

Table shows the

Table 3-4 DRE Disk, Object Cache, and Akamai Connect Cache by ISR-WAAS Model

ISR-WAAS Model	DRE Disk Capacity	Default Object Cache Capacity	Default Akamai Connect Cache Capacity
ISR-WAAS-200	75 GB	32 GB	30 GB
ISR-WAAS-750	73 GB	32 GB	30 GB
ISR-WAAS-1300	71 GB	32 GB	30 GB
ISR-WAAS-2500	210 GB	52 GB	50 GB

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Components for Deploying and Managing vWAAS on ISR-WAAS

[Table 3-5](#) shows the components used to deploy vWAAS on ISR-WAAS, and [Table 3-6](#) shows the components used to manage vWAAS on ISR-WAAS.

Table 3-5 *Components for Deploying vWAAS on ISR-WAAS*

Package Format	Deployment Tool	Pre-Configuration	Network Driver
OVA	Ezconfig	onep	virtio_net

Table 3-6 *Components for Managing vWAAS on ISR-WAAS*

vCM Models Supported	vWAAS Models Supported	Number of Instances Supported	Traffic Interception Method
N/A	vWAAS-200, 750, 1300, 2500	1	AppNav-XE