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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

Cisco ISR-WAAS is the specific implementation of vWAAS running in a Cisco IOS-XE software container on a Cisco ISR4400 Series router. "Container" in this context refers to a KVM hypervisor that runs virtualized applications on the Cisco ISR-4400 Series router.

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

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

ISR-WAAS Model	CPUs	Memory	Disk Storage	Supported ISR Platform	WAAS Version Supported
ISR-WAAS-200	1	3 GB	151 GB	ISR-4321	5.2.1 and later 6.2.1
ISR-WAAS-200	1	4 GB	151 GB	ISR-4321	6.2.3 and later
ISR-WAAS-750	2	4 GB	151 GB	ISR-4351, ISR-4331, ISR-4431, ISR-4451	5.2.1 and later
ISR-WAAS-750	4	6 GB	151 GB	ISR-4461	6.4.1b and later
ISR-WAAS-1300	4	6 GB	151 GB	ISR-4431, ISR-4451	5.2.1 and later
ISR-WAAS-1300	4	6 GB	151 GB	ISR-4461	6.4.1b and later
ISR-WAAS-2500	6	8 GB	338 GB	ISR-4451	5.2.1 and later
ISR-WAAS-2500	6	8 GB	338 GB	ISR-4461	6.4.1b and later

Note   For vWAAS with WAAS Version 6.2.3x or later, ISR-4321 with profile ISR-WAAS-200, 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 6.2.3x or later; the increase in ISR-WAAS RAM is not automatically implemented with an upgrade to WAAS 6.2.3x or 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 Device Type: ISR-WAAS	5.4.1 5.2.1 (ISR-4451)	ISR-4451 (vWAAS-750, 1300, 2500) ISR-4431 (vWAAS-750, 1300) ISR-4351 (vWAAS-750) ISR-4331 (vWAAS-750) ISR-4321 (vWAAS-750)	IOS-XE 3.9	ISR-SSD NIM-SSD

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-6.2.3d.68-npe.ova
Cisco ISR WAAS (200, 750, 1300, 2500) OVA file	ISR-WAAS-6.2.3d.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

Table 3-4 shows the components used to deploy vWAAS on ISR-WAAS, and Table 3-5 shows the components used to manage vWAAS on ISR-WAAS.

Table 3-4   ***Components for Deploying vWAAS on ISR-WAAS***

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

Table 3-5   ***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