

VELOCITY 8.4.0 GA

Release Notes (Rev B)

All the company names and/or brand names and/or product names referred to in this document the name “Spirent” and its logo device are, or may be, either registered trademarks or trademarks of Spirent plc and its subsidiaries, pending registration in accordance with relevant national laws. All other registered trademarks or trademarks are the property of their respective owners.

Contents

What’s New in VELOCITY 8.4.0 GA	2
Release Themes	2
Velocity Compatibility Matrix.....	3
VELOCITY 8.4.0 Known Issues	4
VELOCITY 8.4.0 Resolved Customer Issues	5
Installation Instructions	6
Documentation	6
Contacting Spirent	7

What's New in VELOCITY 8.4.0 GA

Release Themes

Each major release of Velocity has one or more themes that drive the feature selection. The primary focus of the GA Velocity 8.4.0 release is listed below.

Theme	Major New Capabilities
Accessibility for Visually Impaired Users	<ul style="list-style-type: none"> Improved contrast, larger icons, enhanced search boxes and toggles to broaden accessibility to users with visual impairments Fulfills governmental regulation accessibility compliance
Resource and Topology View Enhancements	<ul style="list-style-type: none"> Re-sizable left panel for viewing resources, topologies, and automation assets Easier navigation of deep folder structures of Velocity inventory items
Agent Security	<ul style="list-style-type: none"> Encryption and authentication between Velocity and its agents Setting only trusted Velocity agents to connect Enables secure agent communications for public cloud deployments

Notes:

- LDAP Authentication setting on VDS supports only LDAPS. Refer to Velocity Deployment Guide for details.
- Upgrading from a previous version of Velocity requires an additional step to import the Templates and Drivers included in Velocity 8.3.0. Refer to Velocity Deployment Guide, Upgrading chapter, Post Upgrade section for details.
- After upgrading from prior versions of Velocity, ensure you set up User Groups, Resource Groups and assign required permissions to the User Groups in Velocity, if not, Velocity may not function as expected.
- **Updated Ubuntu version:** Velocity Agent release 8.4.0 and subsequent releases will support Ubuntu 20.04 LTS and will not support Ubuntu 18.04 LTS.
- **Python version:** Velocity Agent supports Python version 3. Ubuntu 20.4 LTS by default installs Python version 3.8.2.

Python 2.x is no longer supported.

Velocity Compatibility Matrix

The following table identifies the software versions supported.

Item	Type	Versions
Velocity VM Deployment Environment	Hypervisor	ESXi version 6.7, 6.5
		KVM Version 1:2.5+dfsg-5ubuntu10.25
User Interface—Browser	Edge	V87 based on Chrome
	Google Chrome	Version 87 (64-bit)
Velocity Agent	Windows	(64bit OS only) Windows 10 Pro, Windows Server 2019
	Linux	(64-bit OS only) RHEL 7.6, Ubuntu 20.04 LTS
L1 Switch	MRV**	MCC and OCC supported using MRV releases: <ul style="list-style-type: none"> EM316LNxNM v4.6 mcc 04 EM316LNxNM v4.10 mcc 01
	Calient	Version B6.1-3a, Model:S320(for E640 solution) Version B6.0-7, Model:S320
	NetScout	<ul style="list-style-type: none"> Test Stream Management Software, version 04.08.200.025 Model: 3901 S-Blade Pro
	Polatis	Model:N-VST-48x48-HU1-DMHNS-800 Name: POLATIS Inc. Version:6.7.6.32
	Lepton	Model: ColdFusion-1 Software Version: 1.1.35; 1.3.20
L2 Switch	Cisco	Model: 2960, Version: 15.0(1)SE3 Model: C3750, Version: 12.2(20)SE3 Model C3750, Version: 12.2(55)SE7
OpenStack	Cloud Manager	Pike, Queens
VMware VSphere		Version 6.7, 6.5
Amazon Web Services (AWS)		Version 2.0.37
Kubernetes	Docker Container	Version 1.18.2
Spirent TestCenter Avalanche	Application	5.15
		5.14
Database	POSTGRESQL	9.3.25
	Elasticsearch	5.5.2
	Minio	2019-08-07T01:59:21Z
	Kafka	2.4.0
	Zookeeper	3.5.6

** Tested on:

U-Boot 1.0.3.4 Linux kernel v2.6.32.1-mrv EM316LNxNM (firmware 5c.1c)

U-Boot 1.0.3.4 Linux kernel v2.6.32.1a-mrv EM316LNxNM (firmware 5e.23)

VELOCITY 8.4.0 Known Issues

Issue Keys	Description
RM-22367	Runlist execution fails when using a topology that is already reserved in another Runlist execution.
RM-22115	<p>The upgrade process may involve a lengthy data migration. The time required relates directly to the volume of saved report data. Prior to upgrade, consider how much data you need to retain and discard older report data.</p> <p>Refer to the API documentation covering the PUT command: <code>/autodelete?olderThan={timestamp}&stepResponseOnly={boolean}</code> endpoint for details on how to discard older report data.</p>
RM-21080	<p>Velocity does not display the Schedule Conflict dialog, when a VLAN ID that connects an Ephemeral resource is already being used in a reservation. Instead, an error displays saying that the reservation contains VLAN IDs that are already being used by other reservations. You may manually resolve such conflicts.</p> <p>Workaround: To resolve conflicts, you may perform one these steps:</p> <ul style="list-style-type: none"> • Use a different VLAN id. <p>or</p> <ul style="list-style-type: none"> • Do not specify any VLAN ids and allow Velocity to automatically select one of the available VLAN ids. <p>or</p> <ul style="list-style-type: none"> • Change the reservation start time to a later time when the VLAN ID is available.

VELOCITY 8.4.0 Resolved Customer Issues

Issue key	Summary
RM-22373	Data Offline Backup from VDS fails with "Network Error".
RM-22244	Runlist queuing and execution fails with "start_failed" status
RM-22212	Resources not in active state appear as reserved as "Release" does not remove the lock, hence, resources not available for other reservation.
RM-22151	Errors and issues with Runlist queuing.
RM-21877	Cancelling Parent reservation fails to cancel recurring reservations.
RM-21848	Unable to Perform Save As from Active Topology.
RM-21604	Editing properties of parent template reverts child template's information to default values.
RM-21381	Issues with VLAN IDS on L2 devices and no scheduling conflicts even when option to allow scheduling of conflicting VLANs reservation not allowed.
RM-21368	Error displays and cancels reservation when creating a VM in OpenStack, even though the VM is successfully created in OpenStack.
RM-21038	Resources are not released after Escalation Request is approved.
RM-20868	Calendar with all unchecked filters causes the page to hang.
RM-20457	Teardown process not executed for reservation after ending with status: "Completed by system maintenance".

Installation Instructions

The Spirent *Velocity Deployment Guide* provides software installation instructions. The document link is available on support.spirent.com in the Downloads area under Related Resources for Velocity. It can also be downloaded from the Spirent Knowledge Base (<https://support.spirent.com/SpirentCSC/>).

Documentation

User documentation is available in online Help formats for Velocity GA release.

Help files, included within the Velocity application; provide reference information and context-sensitive user support. Launch a Help file by clicking the Help button in the menu bar or on a dialog box.

Documents delivered in PDF format support product installation and use. The documents are available on the Spirent Knowledge Base (<https://support.spirent.com/SpirentCSC/>).

Velocity API Reference	
Velocity Resource Driver Reference	
Velocity Abstract Resource Conditions Language Reference Guide	
Velocity Deployment Guide	https://support.spirent.com/SpirentCSC/SC_KnowledgeView?id=DOC10663
Velocity Release Notes	
Velocity User Guides	
<ul style="list-style-type: none"> • Script examples bundle (scriptExamples.zip) • Velocity Virtual Testbed Orchestration Example Instructions and Hello World! Test Script 	
APT License Server Installation Guide	https://support.spirent.com/SpirentCSC/SC_KnowledgeView?id=DOC11183
Velocity Agent User Guide	https://support.spirent.com/SpirentCSC/SC_KnowledgeView?id=DOC11235
VDS Deployment Guide	https://support.spirent.com/SpirentCSC/SC_KnowledgeView?id=DOC10708
VDS Release Notes	

The following documents are also available as Related Resources on the Spirent Knowledge Base Spirent Customer Service Center downloads page (<https://support.spirent.com/SpirentCSC/>).

- Velocity Resource Driver Reference
- Velocity Drivers (provided for those that would like to update their drivers to the latest versions supplied by Spirent)

Contacting Spirent

Spirent products and services

Information about Spirent Communications and its products and services appears on the company website at <http://www.spirent.com>.

Obtaining technical support

To obtain technical support for any Spirent Communications product, please contact our Support Services department using any of the following methods:

Americas

Web: <https://support.spirent.com>

E-mail: support@spirent.com

Toll Free: North America

+1 800-SPIRENT

(+1 800-774-7368)

Europe, Middle East, Africa (EMEA)

Web: <https://support.spirent.com>

E-mail: support@spirent.com

EMEA: +33 (1) 6137-2270

United Kingdom: +44 1803-546333

Toll Free: +1 818-676-2616

Asia Pacific

Web: <https://support.spirent.com>

E-mail: support@spirent.com

In China Mainland:

86 (400) 810-9529 (toll-free)

Out of China Mainland:

+86 10 8233-0033

India: 1800-419-2111

Information about Spirent Communications and its products and services can be found on the main company website at <https://www.spirent.com>.

Information about our global office locations can be found at https://www.spirent.com/About_Us/Locations

Page intentionally left blank