

# Replify Accelerator 5.0 Release Notes



**replify**

FLEXIBLE NETWORK ACCELERATION

**Replify**

30 August 2017

## Release Information

This document details the content of the Replify Accelerator release 5.0.

This release is a major release.

The previous GA release of Replify Accelerator was version 4.5.3.

## Release Naming

VA, REM, Client
Version: 5.0
Build Number: 20807
Full Version: 5.0.0-20807

## Upgrade Instructions

The following versions of the Virtual Appliance (VA) and Enterprise Manager (REM) can be upgraded directly to 5.0.

- 4.5.3
- 4.5.2
- 4.5.1
- 4.5.0
- 4.4.2
- 4.4.1
- 4.4.0

To upgrade your system, the REM should be updated first (if you have a REM), followed by the Virtual Appliance and then clients.

To upgrade the REM or VA please run the following command at the console:

```
replify-ctl upgrade
```

You will be prompted for an activation code after running the above command. Please contact [support@replify.com](mailto:support@replify.com) for this code.

Windows clients can be updated by navigating to 'Tools > Options > Updates' in the Replify client user interface. To avail of updates, the client must be connected to an upgraded REM or VA.

Detailed installation instructions can be found in the "Replify Installation & Configuration Guide" that is located in the 'Help' section on the REM and VA web interface.

The Accelerator Client can also be downloaded from the web interface of VAs and REMs.

Client installation on Windows XP is no longer supported by Replify.

## Replify CA Certificate

If you are using SSL optimization on your application servers with self-signed certificates or you are using HTTPS to access the Replify GUI, you may need to re-generate your CA certificates.

Several browsers have increased security requirements which result in the Replify CA being considered invalid. If this is an issue, you should re-generate this certificate and any certificates that have been created using it. Please contact Replify support for more details.

## Virtual Appliance OS

Previous virtual machines containing the Replify Virtual Appliance and Enterprise Manager were built on a base operating system of Debian 7 (Wheezy). Version 5.0 is built on Debian 9 (Stretch)

An upgrade of Replify Accelerator will not upgrade the base OS.

Both operating systems are currently supported, but support for Debian v7 may be dropped in future releases. We would encourage all existing Replify customers to consider upgrading soon.

Please contact Replify Support for details on how to do this.

## Disk Space

For this release Replify is now shipped on a virtual machine with Stretch. Stretch uses more space for base packages and as such, the disk space required for an image is slightly higher.

When deploying from VMWare, the default disk configuration will be a 16GB disk with 'Thick Provisioning'. We would recommend this configuration but if resources are particularly constrained on the server, you may change this to 'Thin Provisioning' to ensure the disk space is only consumed when required.

## MAC addresses with Hyper-V

Once the image is deployed on the Hyper-V server the MAC address allocation will be set to 'dynamic' by default. When the machine boots Hyper-V will generate a MAC address for the connected virtual network interface. Replify recommends changing this to a static MAC address.

## Download Links

Downloads are available for VMware ESX 5 and above and Microsoft Hyper-V 2012. Other deployments, such as Citrix Xen, KVM, Amazon EC2 and Microsoft Azure may be available on request from Replify Support.

Please refer to the Replify Installation and Configuration Guide for deployment instructions.

VMware ESX		
VA	OVF	<a href="http://s3.replify.com/v5.x/v5.0.0/vmware_esx/Replify-Appliance-5.0.0-20807/Replify-Appliance-5.0.0-20807.ovf">http://s3.replify.com/v5.x/v5.0.0/vmware_esx/Replify-Appliance-5.0.0-20807/Replify-Appliance-5.0.0-20807.ovf</a>
	VMDK	<a href="http://s3.replify.com/v5.x/v5.0.0/vmware_esx/Replify-Appliance-5.0.0-20807/Replify-Appliance-5.0.0-20807-disk1.vmdk">http://s3.replify.com/v5.x/v5.0.0/vmware_esx/Replify-Appliance-5.0.0-20807/Replify-Appliance-5.0.0-20807-disk1.vmdk</a>
REM	OVF	<a href="http://s3.replify.com/v5.x/v5.0.0/vmware_esx/Replify-Enterprise-Manager-5.0.0-20807/Replify-Enterprise-Manager-5.0.0-20807.ovf">http://s3.replify.com/v5.x/v5.0.0/vmware_esx/Replify-Enterprise-Manager-5.0.0-20807/Replify-Enterprise-Manager-5.0.0-20807.ovf</a>
	VMDK	<a href="http://s3.replify.com/v5.x/v5.0.0/vmware_esx/Replify-Enterprise-Manager-5.0.0-20807/Replify-Enterprise-Manager-5.0.0-20807-disk1.vmdk">http://s3.replify.com/v5.x/v5.0.0/vmware_esx/Replify-Enterprise-Manager-5.0.0-20807/Replify-Enterprise-Manager-5.0.0-20807-disk1.vmdk</a>
Microsoft Hyper-V 2012		
VA		<a href="http://s3.replify.com/v5.x/v5.0.0/hyper-v_2012/Replify-Appliance-5.0.0-20807.zip">http://s3.replify.com/v5.x/v5.0.0/hyper-v_2012/Replify-Appliance-5.0.0-20807.zip</a>
REM		<a href="http://s3.replify.com/v5.x/v5.0.0/hyper-v_2012/Replify-Enterprise-Manager-5.0.0-20807.zip">http://s3.replify.com/v5.x/v5.0.0/hyper-v_2012/Replify-Enterprise-Manager-5.0.0-20807.zip</a>

## New Features & Improvements

A list of some of the new features and improvements that have been added since version 4.5.3:

Jira ID	Description
ACC-4660	Application servers UI tab shows number of application servers defined
ACC-4646 ACC-4644	New Replify logos used in UI
ACC-4636 ACC-4160	Client support for MacOS has been re-instated
ACC-4591	Windows client now uses Lager framework for logging
ACC-4576	Replify CA Certificates now have populated subjectAltName field
ACC-4570	VA now has option to log to an external syslog server
ACC-4568	VA address can now be specified as a parameter to the Windows installer
ACC-4655 ACC-4583 ACC-4560	Updated help section on UI
ACC-4558	HTTP content can be selectively compressed based on content encoding and content type
ACC-4555	Application server connections can now be limited to a specified NIC
ACC-4553	Memory and swap information now included in VA diagnostic reports
ACC-4549 ACC-4548	Android client now works with SELinux in Enforcing mode
ACC-4544 ACC-4529 ACC-4485 ACC-3940	Muxing improvements
ACC-4523	Enhanced security between Replify nodes using TLS
ACC-4518	New API call available that allows client location awareness to be set
ACC-4517	Replify CA certificate now uses X.509 version 3
ACC-4515	Replify CA Certificate now uses SHA256 Signature
ACC-4574 ACC-4514	Ability to specify versions of TLS that can be used when accessing an application server
ACC-4503	Services API now returns whether a service is user defined
ACC-4499	Add SOCKS interface to Replify Accelerator

ACC-4495	Debian Stretch now supported. New VMs are provided with Debian Stretch base image
ACC-4494	All product components are now built against Erlang v19.2
ACC-4492	Dedicated STARTTLS optimization
ACC-4491	Dedicated SMB2 optimisation
ACC-4479	A new "Standard" protocol handler can now be used when creating user defined services
ACC-4381	Charts.js is now used instead of amCharts for graphs on UI.
ACC-4189	Faster default hashing algorithms
ACC-4126	Dedicated HTTP/2 optimization

## Fixes

A list of some of the issues that have been fixed since version 4.5.3:

Jira ID	Description
ACC-4667	Validation is now correctly performed on VA hostname when it is being changed
ACC-4666	Savings calculator on VA no longer displays negative values for savings
ACC-4664	Large backup files can now be restored correctly to VA
ACC-4663	Linux client now restarts automatically after an upgrade
ACC-4659	Stats collection now generates less load on VA
ACC-4657	FTP protocol handler now recognises extended passive FTP mode
ACC-4652	Diagnostic page now reports disk low condition correctly
ACC-4650	CA details link on GUI now works correctly
ACC-4647	Improved error handling on application servers set_property API function
ACC-4643	Tag colour now correct on "Per Tag Stats" page of Enterprise Manager
ACC-4632	Conflicts no longer occur when application server is defined as an individual application server and as a server that is defined as a subnet
ACC-4604	Enhanced validation on client UI
ACC-4582	"Unexpected value" error messages no longer appear on Windows client

ACC-4578 ACC-4577	OpenVAS vulnerability scan now shows clean scan for VA
ACC-4569	When system is under load, “too many db tables” error should not be displayed
ACC-4562	Various cache performance improvements
ACC-4561	Cache GUI updated, so that cache sizes that aren’t a multiple of 10MB can be specified
ACC-4557	Accelerator Service now starts on native Linux systems with non-GB locales
ACC-4556	Changing items on settings page no longer causes clients to reconnect
ACC-4550	Issue where VA sometimes does not recognise MAPI traffic has been corrected
ACC-4543	Scenario where recursive symlink in /etc/service is created has been corrected
ACC-4542	FTP active uploads are now optimized
ACC-4525	Generating diagnostic report from console no longer breaks generating it from UI.
ACC-4522	SNI now passed from VA to application server for TLS connections
ACC-4516	Can now add an application server that is a subnet using API
ACC-4513 ACC-4497	Local peered appliance can now use direct connection to application server if remote appliance is not available
ACC-4508	Javascript error in client UI has been corrected
ACC-4506	API application server delete function now removes service mappings
ACC-4505	Error handling improved on application servers UI on VA
ACC-4504	Scenario where configd process could block login requests when updating Debian repositories has been corrected
ACC-4498	Race condition where client interception rules were not always being applied has been corrected
ACC-4487	CIFS Prefetches page now reports client name separately from machine name.
ACC-4486	Purging of the cache persists across reboots
ACC-4484	URL Logging now works on a local peered appliance
ACC-4251 ACC-4476 ACC-4489 ACC-4502 ACC-4507 ACC-4512 ACC-4520	Logging improvements

ACC-4511 ACC-4521 ACC-4653 ACC-4654 ACC-4656	
ACC-4436	Download of Replify MIB now specifies correct MIME type
ACC-4405	Fix for issue where VA sometimes was unable to change cache size
ACC-3793	Auto-discovery now works with a proxy server

## Errata or Known issues

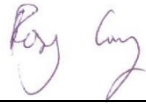
A list of known issues, present in this release, their impact, workarounds and any future actions associated with that issue.

Jira ID	Description
ACC-4648	Mac client service stops when it connects to a VA that is using a non-standard block size.
ACC-4427	Android client requires a reboot before upgrade or client re-install.
ACC-4255	AVG anti-virus software incorrectly detects a threat during Replify client uninstallation.
ACC-4243	Android clients 4.3.2 and previous wont connect to 4.4.0 and above VA
ACC-4224	Windows 10 uninstall fails using 'modern add/remove programs' interface.
ACC-4172	When using Dynamic SSL, the time on the VA must be synchronized with the time on client machines.
ACC-4137 ACC-4170 SUPP-938	Skype for Business connections, Dropbox and Email connections to Office 365 from Outlook will be dropped if HTTPS optimization is enabled.
ACC-3825	Un-rooted Android devices can only accelerate HTTP(s) traffic.
ACC-3718	Intel based processors on Android devices not supported.
ACC-3641	Signed CIFS transfers result in high RAM usage and eventual VA crash.
ACC-482	Optimization does not occur when both peered VAs have application servers with the same IP address.



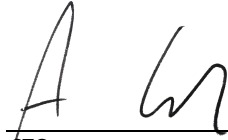
## Release Notes and Errata Approvals

Prepared by:



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CEO

Approved by:



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CTO

## Change Control

Version	Date	Author	Change Description
1.0	05/05/2017	R Corry	Release notes for 5.0– initial draft for review
1.1	24/08/2017	S Dempsey	Update of release notes
1.2	29/08/2017	A Caruth	Final revision