# Replify Accelerator 5.3 Release Notes

**FLEXIBLE NETWORK ACCELERATION**

**Replify Ltd**

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# Release Information

This document details the content of the Replify Accelerator release 5.3.0

This release is a minor release that contains some minor features and several bug fixes.

The previous GA release of Replify Accelerator was version 5.2.1.

# Release Naming

| | |
|---|---|
| Version | 5.3.0 |
| Build Number | 21196 |
| Full Version | 5.3.0-21196 |

# Upgrade Instructions

The following versions of the Virtual Appliance (VA) and Enterprise Manager (REM) can be upgraded directly to 5.3.0

- 5.2.1
- 5.2.0
- 5.1.0
- 5.0.0
- 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 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.

# Virtual Appliance OS

Virtual machines prior to 5.2.0 containing the Replify Virtual Appliance and Enterprise Manager were built on a base operating system of Debian 7 (Wheezy).  Version 5.2 onwards is built on Debian 9 (Stretch).

Please note that an upgrade of Replify Accelerator will not upgrade the base OS.

Both operating systems are currently supported, but support for Debian 7 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 5.5 and above and Microsoft Hyper-V 2012/2016. Other deployments, such as Citrix Xen, 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 | http://s3.replify.com/v5.x/v5.3.0/Replify-Appliance-5.3.0-21196/Replify-Appliance-5.3.0-21196.ovf | |
| | VMDK | http://s3.replify.com/v5.x/v5.3.0/Replify-Appliance-5.3.0-21196/Replify-Appliance-5.3.0-21196-disk1.vmdk | |
| REM | OVF | http://s3.replify.com/v5.x/v5.3.0/Replify-Manager-5.3.0-21196/Replify-Manager-5.3.0-21196.ovf | |
| | VMDK | http://s3.replify.com/v5.x/v5.3.0/Replify-Manager-5.3.0-21196/Replify-Manager-5.3.0-21196-disk1.vmdk | |
| **Microsoft Hyper-V 2012/2016** | | | |
| VA | http://s3.replify.com/v5.x/v5.3.0/Replify-Appliance-5.3.0-21196-hyperv.zip | | |
| REM | http://s3.replify.com/v5.x/v5.3.0/Replify-Manager-5.3.0-21196-hyperv.zip | | |
| **Qemu** | | | |
| VA | http://s3.replify.com/v5.x/v5.3.0/Replify-Appliance-5.3.0-21196.qcow2 | | |
| REM | http://s3.replify.com/v5.x/v5.3.0/Replify-Manager-5.3.0-21196.qcow2 | | |
| **Docker** | | | |
| VA | https://hub.docker.com/r/replifyltd/accelerator/ | | |
| REM | https://hub.docker.com/r/replifyltd/manager/ | | |

# New Features & Improvements

A list of some of the new features and improvements that have been added since version 5.2.1:

| Jira ID | Description |
|---|---|
| ACC-4424 | Delete service frees up disk space more efficiently when a cache is reset |
| ACC-4629, ACC-4841 | Improvements to charts on REM GUI |
| ACC-4725 | BBR Congestion Control Algorithm now available to be used on links with high packet loss |
| ACC-4726 | REM has ability to load balance VAs between users |
| ACC-4736 | FTP support for EPSV and EPRT commands has been added |
| ACC-4753 | New Application Server report is available on the REM |
| ACC-4764 | Amount of management traffic between VAs and between clients and VAs has been reduced |
| ACC-4781, ACC-4785 | Resource checker purges old caches when RAM or disk space is low |
| ACC-4783 | TCP keep-alives can optionally be set for LAN connections |
| ACC-4788 | Old unused packages are now removed when an upgrade is performed on the VA and REM |
| ACC-4792, ACC-4811, ACC-4812, ACC-4838 | Increased efficiency when collecting statistics |
| ACC-4815 | Preconfigured log.config file has been added to the REM |
| ACC-482 | VA can intelligently resolve error when an application server with same IP address is configured on both sides of a peered VA |
| ACC-4822 | Number of ETS tables used by client and VA has been reduced |
| ACC-4845 | Extra validation added to configure-network script |
| ACC-4850 | Increased efficiency when retrieving configuration values |
| ACC-4852, ACC-4854 | Increased efficiency when determining whether a connection should be optimized |
| ACC-4857 | VA can now be configured in bridge mode |
| ACC-4866, ACC-4925 | Logging improvements |
| ACC-4874 | QCOW2 images now contain a 50GB partition |
| ACC-4876 | VMWare images now use legacy interface naming for NICs |

| Jira ID | Description |
|---|---|
| ACC-4901 | New get_historic_session_info API call is now available on VA |

## Fixes

A list of some of the issues that have been fixed since version 5.2.1:

| Jira ID | Description |
|---|---|
| ACC-4286 | Resolved 404 errors that were being generated on REM due to non-existent images being accessed |
| ACC-4502 | "Received unexpected message" errors no longer occur when a peered appliance has disconnected |
| ACC-4629, ACC-4801 | Sorting now works correctly for all columns in web GUI |
| ACC-4635 | Failure of SMB1 downloads when multiple SMB sessions on same TCP connection having same FID no longer occurs |
| ACC-4651 | Excluded application servers are no longer shown on REM reports |
| ACC-4746 | GUI issue when validation failed when adding an excluded application server has been corrected |
| ACC-4755 | Correction made to graphs on cache page where "optimized" and "raw" descriptions were mislabelled |
| ACC-4758 | The warning shown on the cache GUI when a user changed the cache size is now displayed in all circumstances |
| ACC-4765 | GUI issue when changing counters to be shown on health graph has been resolved |
| ACC-4791, ACC-4820 ACC-4870 | Resource leak when system is under load has been corrected |
| ACC-4793 | Corrupt cache no longer breaks peering |
| ACC-4797 | Erroneous message during FTP uploads no longer occurs |
| ACC-4813 | Resource checker is now more stable when under load |
| ACC-4823 | Issue when importing pfx certificates that had a passphrase with some non-alphanumeric characters had been corrected |
| ACC-4824 | Order in which raw and optimized data is shown is made consistent on all VA UI screens |
| ACC-4825 | Some validation that was done when adding an application server is now done when editing also |
| ACC-4829 | Impair-network script "/clear" option now works correctly |
| ACC-4832 | Services are now fully taken into account when deciding optimizations to use |
| ACC-4836 | Duplicate entries in rprx.app configuration file have been removed |

| ACC-4840 | Issue with dynamic updates of "Connections to Server" label on VA GUI has been corrected |
|---|---|
| ACC-4845 | Memory leak when performing Active FTP uploads has been corrected |
| ACC-4845 | Extra validation added to configure-network script |
| ACC-4856 | Extra validation applied when creating a user defined service |
| ACC-4858 | VA peering is more stable on high latency connections |
| ACC-4873 | UI issue in Certificate Management page has been corrected |
| ACC-4877 | GUI issue when performing a reboot on the VA and REM has been corrected |
| ACC-4888, ACC-4923 | GUI issue with HTTP Settings page has been resolved |
| ACC-4898 | GUI issue with Health graph has been resolved |
| ACC-4903 | Upgrade no longer loses statistics used for health graph |
| ACC-4911 | SMB2 connections are no longer terminated when an SMB error packet is encountered |
| ACC-4912 | TLS sessions that reuse session keys no longer cause errors when accelerated |
| ACC-4924 | GUI issue with REM Activity Log has been corrected |
| ACC-4934 | Issue where WCCP2 heartbeat doesn't always stop on peer disconnection has been resolved |

# 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-3641 | Signed CIFS transfers result in high RAM usage and eventual VA crash |
| ACC-3718 | Intel based processors on Android devices not supported |
| ACC-3825 | Un-rooted Android devices can only accelerate HTTP(s) traffic |
| 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-4172 | When using Dynamic SSL, the time on the VA must be synchronized with the time on client machines |
|---|---|
| ACC-4224 | Windows 10 uninstall fails using 'modern add/remove programs' interface |
| ACC-4255 | AVG anti-virus software incorrectly detects a threat during Replify client uninstallation |
| ACC-4427 | Android client requires a reboot before upgrade or client re-install |
| ACC-4648 | Mac client service stops when it connects to a VA that is using a non-standard block size |
| ACC-4719 | STARTTLS and HTTP CONNECT content is not cached in client to local VA scenarios |
| ACC-4794 | Optimization does not occur when a client is connecting to a local VA that is peered to a remote VA and both VAs have an application server with the same IP address configured |
| ACC-4896 | Active FTP may fail for some clients when using a client connected to a peered VA setup |
| ACC-4933 | In the scenario where a client is connected to a peered VA setup, SSL optimization will not work if either the client or the remote VA using a version of Replify Accelerator that is below 5.0 |