



Release Notes

Version: 2019.4.0

Copyright AppViewX, Inc.

Copyright © 2019 AppViewX, Inc. All Rights Reserved.

This document may not be copied, disclosed, transferred, or modified without the prior written consent of AppViewX, Inc. While all content is believed to be correct at the time of publication, it is provided as general-purpose information. The content is subject to change without notice and is provided “as is” and with no expressed or implied warranties whatsoever, including, but not limited to, a warranty for accuracy made by AppViewX. The software described in this document is provided under written license only, contains valuable trade secrets and proprietary information, and is protected by the copyright laws of the United States and other countries. Unauthorized use of software or its documentation can result in civil damages and criminal prosecution.

Trademarks

The trademarks, logos, and service marks displayed in this manual are the property of AppViewX or other third parties. Users are not permitted to use these marks without the prior written consent of AppViewX or such third party which may own the mark.

External Reference Links

This product includes software developed by the CentOS Project (www.centos.org).

This product includes software developed by Red Hat, Inc. (www.redhat.com).

This product includes software developed by VMware, Inc. (www.vmware.com).

All other trademarks mentioned in this document are the property of their respective owners.

Contact Information

AppViewX, Inc.

222 Broadway, FL 19

New York, NY 10038

Email: info@appviewx.com

Web: www.appviewx.com

Contents

Copyright AppViewX, Inc.....	ii
Copyright © 2019 AppViewX, Inc. All Rights Reserved.....	ii
Trademarks.....	ii
External Reference Links.....	ii
Contact Information.....	ii
Preface.....	iv
Revision History.....	iv
Text Conventions.....	iv
Chapter 1. New Features.....	5
ADC.....	5
Certificate.....	5
Security.....	7
Platform.....	7
Workflow.....	7
Reports.....	8
Chapter 2. Fixed Issues.....	9
Chapter 3. Known Issues.....	13
Chapter 4. Limitations.....	16
ADC.....	16

Preface

Revision History

Revision	Description	Date
1.0	New Release of AppViewX v2019.4.0	July, 2021

Text Conventions

The following text conventions are used in this document:

Convention	Description
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
<code>codeblock</code>	Indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Chapter 1: New Features

The following new features are introduced in respective modules in this release:

ADC

- Ability to add and manage F5 v14 and v15 devices with self-servicing capabilities. LTM and BIG-IP DNS objects are supported and you can perform actions like enable, disable, order, priority, LB mode, ratio change, and others in the Control Center and Dashboard.
- Ability to take encrypted backups of BIG IP files and restore the protected file within and across devices. The BIG IP backups can be protected with a passphrase while generating an instant or scheduling a backup.
- The option to customize the archive settings has been introduced in the Backup and Restore. You can customize the archive count for storing the daily, weekly, monthly and yearly backups individually. Using this feature, you can maintain scheduled archives without it being overwritten by instant backups.
- The generated ADC backups (instant/scheduled) will now be stored in the corresponding backup groups only. The backups generated through the control center or dashboard will be stored in the Default_Group.

Certificate

- The user can now perform the CA certificate manager approval action in AppViewX.
- You can now add and manage the following cloud services within the same account and discover certificates from them:
 - **Amazon**
 - AWS IAM (Amazon Web Services: Identity and Access Management)
 - AWS ACM (Amazon Web Services: Amazon Certificate Manager)
 - Amazon CloudFront
 - Amazon EC2 (Elastic Compute Cloud) Instant Types (Only Linux Apache is supported)
 - Amazon ELB (Elastic Load Balancer)
 - **Azure**
 - Application Gateway
- When the private key is downloaded from the holistic view, the user can now encrypt the private key and download it as a **.zip** file. There are two ways to encrypt the key: **S256** and **DES3**.
- The user can now perform a client certificate validation to overcome mixed certificate issues in the Windows Agent.

- AppViewX now provides the OCSP responder for any enterprise CA. It uses the standalone OCSP response that is supported by any OCSP client. The responder has its database where the CA details and the respective CDP locations have to be updated.
- The backend logic for the SSL checker has been changed such that AppViewX communicates directly with the FQDN for collecting the details.
- You can export only the certificates from the selected group. Only certificates from one group can be exported at a given time.
- The 'Download private key' feature in the holistic view is now supported with two encryption techniques AES256 and DES3.
- Server Import features:
 - For WebLogic, the 'Wadm/Wlst/Wsadmin Directory Path' field has been made optional. The 'Wadm/Wlst/Wsadmin Username' and 'Wadm/Wlst/Wsadmin Password' fields accept more than one value.
 - For WebSphere, the 'Weblogic Installation directory' will be available as one of the columns, which will behave as an optional field.
- During server device addition,
 - For WebSphere, a new section called 'Vendor-Specific Details' has been added in which more than one username, password, and directory path information can be entered.
 - When there is no value entered in the 'WSadmin directory path' field, AppViewX will figure out its home directory to discover the certificates and parse the configuration.
 - For WebLogic, the 'Weblogic Installation directory' is available as an optional field. In the application connector, an 'Alias Name' field has been introduced in the 'Certificate Details' section.
 - When there is no value entered in the 'Weblogic Installation directory', AppViewX will figure out its home directory to discover the certificates and parse the configuration.
- For F5, always push to 'Common' option can be enabled in the backend.
- Ability to add and manage F5 v14 and v15 devices with self-servicing capabilities.
- Pie charts in the certificate inventory details can now be clicked to display more in-depth data. The details will be drilled down and filtered based on the selection.
- For ACME,
 - The agent configuration settings have been introduced in the AppViewX GUI.
 - AppViewX, EJBCA, and Microsoft (Standalone and Enterprise) CAs are now supported.
 - The option to revoke is now supported.
 - The EST protocol is now supported and validated with the Cisco router device. The protocol is supported by TLS-based authentication. Cisco IOS and Cisco IOS are now supported.

Security

- You can now store the configuration drift for the following Firewall vendors: Palo Alto, Panorama, and Cisco ASA. Objects for changes made in N days and triggered through the Syslog or Config fetch are displayed in AppVision.
- Ability to show the Firewall risk report based on the Cisco context.
- Minor changes have been made in the Firewall import Excel sheet to accommodate CyberArk credential fields.

Platform

- You can now store the identity key in the AppViewX credential store for device authentication. You can also use CyberArk and other vaults for key rotation.
- HSM FIPS mode is now supported on Ultimaco.
- For HSM devices, an option to select multiple datacenters has been added.
- The audit log now displays object details on which the operation is triggered.
- You can now add **Gemalto Dpod** in the HSM device inventory.

Workflow

The following features have been introduced in the Workflow module.

- A customizable 'Service Catalog/Request page for value-based automation offerings has been introduced. You can now group and list workflows in this page as per your requirements.
- Enhanced and Comprehensive version control for Hooks, Helperscripts, and Form has been introduced. You can now view changes in history and rollback to previous changes.
- OOB Workflows for BIG IP Application Service Automation through AS3 (Declarative API) for fast and easy Application Service Deployments have been introduced. The following Workflows will now be available in the catalog:
 - Create/Modify of Wide IP Application service on BIG-IP.
 - Create/Modify of VIP Application service on BIG-IP.
 - Delete Application service on BIG-IP.
- Ansible integration (Northbound) with AppViewX to execute AppViewX workflows through the Ansible playbook. AppViewX will generate an Ansible module and a sample YAML file on the Ansible server to execute the required workflow.

Reports

- A pre-canned **Usage and Adoption Metrics** report with 17 widgets has been added to the Dashboard. The report refreshes every three hours starting from 12:00 AM every day.
- A drill-down feature has been added for the reports. You can add 5 levels of drill-down for the specific parameter. Users can pin drill-downs from reports to the dashboard and view it.
- You can now download reports in the **.xls**, **.csv**, and **.pdf** format.
- A new '**Enable Live Data**' option has been added. When clicked, AppViewX will fetch the realtime data for the particular report and display it.

Chapter 2: Fixed Issues

Bug ID	Module	Description
129705	CERT+	Unable to bind certificates with case differences
129610	CERT+	Null pointer exception is thrown when trying to renew certificate - Entrust
129339	CERT+	On-demand revocation check fails to update status
128899	CERT+	Unable to manage non-IIS server
128830	CERT+	The user is not able to import CSR when the CSR has bit length as 8192 or key type as EC.
129250	CERT+	Email alerts for the expiry are not working
129039	CERT+	Entrust cert submission fails for all users except the 'admin'
129086	CERT+	UI error banner needs correction for private key download
129085	CERT+	Skipping IIS/windows version check allows invalid machines to be managed
128017	CERT+	Renewal failed for Entrust wildcard certificate since the certificate type is wrongly mapped
129736	CERT+	Unable to create Microsoft Enterprise CA Certificate for 1024 bit length
130080	CERT+	Unable to discover Personal CA that has a huge number of Certificates
130032	CERT+	Stale SSH connection on the managed Palo Alto device
129981	CERT+	Unable to submit the uploaded CSR to CA
129875	CERT+	Bit length not populating for custom groups while creating a CSR
130031	CERT+	Digicert division does not load automatically to a certificate while renewal or regenerate
130093	CERT+	Users not able to import CSR if CSR has a key type as EC.
130454	CERT+	Private key Upload to certificate fails even if it is the correct key
130342	CERT+	VW request 'Abort' status is not handled
130216	CERT+	Expiry certs are not excluded based on dates, Only Year is considered.
130884	CERT+	Entrust CA custom attributes default value update failed
130671	CERT+	Unable to add a Linux server in the inventory by using SSH key to authenticate

Bug ID	Module	Description
130646	CERT+	Servers added by other users are not getting reflected for Users with ACL
131208	CERT+	MS CA suspend and reinstate does not work
131114	CERT+	Scheduled CRL check failure due to pending cert requests
129572	CERT+	Users not able to approve/reject the request in the email palette, if navigated from CERT holistic page.
130689	Security+	Firewall devices bulk upload throws an invalid error
128886	Platform	LDAP "Test query" results not static
128693	Platform	Getting an error in the UI while deleting regex with 0 values
127713	Platform	Audit logging with a username and user group in the user actions
126347	Platform	When the session gets expired the UI throws "Unauthorized access" as the error banner
129081	Platform	Can the user login to AppViewX if a Special character is present in the password "?"
130676	Platform	Pagination does not work correctly for the Selected resources/user groups/roles in the Accounts
124530	Automation+	Reject button shows up in the form without being configured
127910	Automation+	Masked Values are showing as plain text in the Implementation Output but masked in Rollback Output
129976	Automation+	Visual Workflow fails to recognize 63 character limit for FQDN
131164	Automation+	Need support for importing files with .yaml extension
128775	ADC	Application values are not displayed while executing modify action in the class management widget
128621	ADC	Selected devices in class management widget show standby device when the Device flip happens
128250	ADC	Modify/Execution on class management widget is not reflecting in F5 device
128196	ADC	Search for an Object does not exist in DB and the Control center is breaking Control center behavior
128142	ADC	infinite dashboard widgets are getting created

Bug ID	Module	Description
127630	ADC	Retain Selected DeviceObjects when the same class name is searched during runtime in classmanagementWidget.
127573	ADC	Objects if given hierarchy all is not loading in dashboard
127202	ADC	ClassName in Modify/View Action is not getting updated properly on changing the device Name Backend development
127106	ADC	F5 V13 Removing deprecated SOAP Calls
126245	ADC	ClassName in Modify/View Action is not getting updated properly on changing the device Name.
125997	ADC	Access Denied in Control in Control for Objects
125742	ADC	While adding the device with FQDN, it adds extra "." at the end
125479	ADC	Object status greyed out in CC and Dashboard
125475	ADC	F5 upgrade from v11-v13 made dashboard grayed-out
125459	ADC	During config fetch when the device is in progress does it display error? Device Does not have RW permission? when a modify action is triggered in class management widget
125251	ADC	Display last accessed time in the tooltip of an object
122220	ADC	Dashboard right click view log is providing a general search result with the IP and port and not for the exact object.
121636	ADC	When we delete a group/ action from the class management widget, we are displaying a generic log that the widget is updated
120842	ADC	Objects Greyed Out in control center after the config fetch
120830	ADC	It is slow while trying to access the control center
120819	ADC	Aborting delayed action. When action triggered takes too long to reach southbound, it should be aborted to avoid duplicate actions.
120455	ADC	right-click action to view alerts on group checkbox in application widget displays all alerts
118569	ADC	Cannot filter or export orphaned objects Count more than 5k

Bug ID	Module	Description
124333	ADC	Due to continuous statistics fetch TACACS server in going out and not allowing any other user to login
129107	ADC	P1 due to config fetch issue from AppViewX
129098	ADC	Operation Failed while hovering mouse on device name - ADC alerts page
127802	ADC	Device Backup is not working Gateway went down
127104	ADC	Role Permission Revoked when assigning permissions during config fetch
129542	ADC	Device backup is getting failed for a secondary device
130690	ADC	Device Sync pushing config from standby to active device
130317	ADC	Access control revokes only 100 objects access at a time when selecting all objects
130687	ADC	Group sync not happening for Syslog subscription during device config fetch
130585	ADC	Live stats not displayed after the upgrade to V14 GTM
130976	ADC	Modify/Execution on class management widget is not reflecting in F5 device
130692	ADC	Only Active devices are getting listed for Threshold alert configuration
128726	Installation	DB Backup sync Up is based on the type of JOB.
130168	Installation	IP Based Stop-Start issue
129899	Installation	DB backups marked failed and older backups are not removed
128151	Installation	Encrypt passwords for few parameters in appviewx.conf file
130282	CERT+	Upload CSR SAN Issue
129732	Security+	Unable to manage Fortigate devices
127681	Platform	First name and last name supports only Alphabets in the user module - Backend changes
128127	Automation+	Customized cert generation VW fails

Chapter 3: Known Issues

Bug ID	Module	Description
131193	Automation+	Unable to send emails, when there is a mismatch in the unique attributes that are configured.
131252	Automation+	The cloned sub-flow added in the cart does not get updated accurately with the configured changes.
131358	Automation+	The new user folder cannot be renamed with any special characters.
113720	Automation+	When RGF flow is disabled and the submitter rejects the form, the creator and the reviewer would be able to access the request.
131526	SSH	Unable to modify the directory server added in the SSH settings page.
130894	Security+	Syslogs are not supported for Fortigate 5.6 and above.
122296	Security+	WAF Dashboard: Learning Suggestions: 'No Actions found' error is thrown while navigating to suggestions from the Dashboard and trying to perform actions.
131379	Reports	FN: Reports: Scheduled time doesn't get removed from the inventory once the reports scheduler gets completed.
131632	Reports	FN: Reports: The last refreshed time will not get updated when the user clicks the live refresh icon.
128752	Platform	When the threshold alert and Syslog alert are created with the same name, the threshold alert stops working.
131263	Platform	LDAP user group - Assigned user group does not show up in the user group popup screen.
131480	Platform	The license progress bar based on the consumed count is displayed in the license details page.
131598	VW	LICENSE: License activation fails after multiple retries: License details page in the settings is blank.
125140	Deployment	After migration - avx_vendors conf added with HSM library path is not getting migrated, it is blocking HSM related actions.
131690	CERT+	Dashboard >For any report with an expiry date, a new certificate is being considered as "expired" and has count mismatch in reports.

Bug ID	Module	Description
131667	CERT+	Group change via assign/unassign is successful, so group change in edit connector should be frozen.
130297	CERT+	When the node does not contain the Internet or Proxy configured, the SLA is not met for revocation check calls.
130547	CERT+	Entrust CA does not provide "pending" status in certificate enrollment and hence, auto-approval should be enabled in the CA portal.
131202	CERT+	When the On-demand revocation check call is triggered, CRL logs should contain the Certificate authority name.
131338	CERT+	Mobileiron rollback fails when the row count exceeds 50 in the device GUI [Update from device side].
131355	CERT+	WebSphere: Application connectors do not map accurately for certificates discovered from profiles in management scope.
131357	CERT+	Weblogic: Application connectors do not map accurately for the certificates discovered from profiles in the management scope.
131384	CERT+	Orphan report loads for 50K application connector and does not load when its more than 70K certificates.
131424	CERT+	When alias name in certificates gets mismatched, then there may be a chance of corruption in server profile for WebSphere devices.
131501	CERT+	When User doesn't have access to Default group, clicking Unassign option from Holistic view throws the error "User doesn't have permission to this group" but it gets unassigned
131211	Rapid SB	MQServer - rollback for creating labels is not working as expected.
131317	Rapid SB	CA certificates are not getting pushed to MQServer without a label in all cases - Create KDB, Create a label
131426	Appvision	Application discovery fails in appvision.
131691	ADC	No support provided for RADWARE.
112869	ADC	CC_Infraview_Column based filter_RangeSlider initial values are not maintained correctly in the UI by default.

Bug ID	Module	Description
131377	ADC	ApplicationView: Getting 500 InternalServerError when the user restricts actions only in the parent group and performs an action by selecting objects of different levels of groups.
131417	ADC	AVI-For Object which has down status red pattern should be shown.
119034	ADC	Devices are not being automatically added to the backup schedule.
127728	Switches	Device Inventory - Switch and Router - Cannot Add device with Credential List
128057	Installation	12.4 DMZ Prod Scripts Improvement
128041	Installation	12.4.0 Issues occur after the latest script deployment
127472	Installation	Post Upgrade, customized heap memory is getting reset to default
127405	Installation	Heap Info does not display correctly
127207	Installation	Script modification for initializing, start and stop components for the DMZ servers
127092	Platform	AppViewX 12.4 VW - Every task in VW takes almost 1.5 or 2 minutes to complete
127465	Automation+	OOB tasks/Command Repo - session issue
129756	ADC	Unused VIP/WIP information does not show for all the devices, but it works for single devices.
130677	ADC	Multiple Login and Command Execution from AppViewX on F5 v12
130853	Platform	Not able to send emails
129607	Installation	AppViewX 19.3 Build Issue with Python PIP and Easy Install
130617	Installation	Access log rollover is not working
131733	ADC	Migration_Backup download icon for individual files are not available for migrated backups

Chapter 4: Limitations

ADC

- In device management,
 - If you want the FQDN devices to be managed using CyberArk credentials then ensure that the FQDN devices are added with a trailing dot in the CyberArk vault.
 - CyberArk authentication is not supported for the A10 devices.
 - CyberArk and AppViewX credentials are not supported for Akamai devices.
- A10 v2 server objects are not supported.
- The MongoDB supports parsing of the configuration file less than 16MB. The class files for the F5 device fails if it exceeds 16MB.
- The Big-IP system intermittently fails to authenticate the users with valid credentials. For detailed information, refer to the following link: <https://support.f5.com/csp/article/K15285>.
- If there is an exclamatory mark (!) in the credential of a proxy setting, the connection will not be established.
- Configuration fetch can be triggered for devices in the 'Queued' or 'Inprogress' status after five minutes on a FIFO basis.
- If the config fetch is triggered for the HA devices, the secondary device will be triggered after the config fetch is completed for the primary device.
- The import and export of devices are not supported by Amazon ELB and Akamai.
- AVI devices can be managed only using a management IP address and the credentials provided must be a super-user.
- F5 devices can be managed only using the admin role and must have **tmsh** access.
- F5 v12 DNS records are not supported in the device management and control center.
- NAT IP based device addition is not supported for Citrix devices.
- Orphan Objects are not supported for Citrix and Amazon ELB devices.
- If the IP/FQDN/device name is already present in AppViewX, the device with the same details cannot be added to the Inventory.
- Cisco GSS is not supported.
- In F5 devices, the external class files that have more than 1,20,000 records will not be parsed.
- Configuring the DNS name in the display name format cannot be reordered.
- Generating an iHealth report through device inventory has the following limitations:
 - The iHealth report generated in the reports column displays only the latest archive.
 - If an iHealth report generation is in 'Queued' or 'In progress' status, another iHealth report can be triggered only after 30 minutes.
 - iHealth QKView download cannot be handled for file sizes of more than 200 MB.

- The python scripts must contain SHEBANG in the python installed directory to run them in the script execution widget.
- Updating the object configuration change based on SYSLOG has the following limitations:
 - In the case of an object state change, if the hostname matches with more than one device name, respective SYSLOG will be ignored.
 - SYSLOG under the logging module will not contain the device name.
 - Any configuration changes to the iRule class files, policy, and partition list will trigger a device config fetch. No other changes received through SYSLOGS will be processed until the device config fetch is complete.
 - If any AVI device is subscribed/unsubscribed in the cluster, then all the available devices in the cluster will be updated respectively.
 - The Syslogs cannot be received from the Citrix devices when subscribed using the logstash hostname.
 - For A10 devices, if the Syslog is subscribed using a logstash hostname, it should not be more than 29 characters.
 - Any modification in the device boot location recommends Config fetch to receive SYSLOG(s).
 - SYSLOG from Kafka cannot be processed for AVI devices as the logs received contains the hostname of the device.
 - A manual subscription is required to receive the Syslogs from the A10 devices.
- The usage of logical operators between a primary and secondary keyword is not supported in the Control center.
- The AVI pool-group is not supported in the Control Center and Dashboard modules.
- Trap from the A10, AVI, and Citrix devices will not be available in the AppViewX alerts module.
- The read actions from AppViewX will be redirected to the respective devices. However, the object writes action configurations can be defined in the settings.
- In Backup and restore,
 - For AVI, Device Backup fails when more than one tenant is present.
 - The cross version device restores for F5 is not supported.
 - The object restore is not supported for F5 v10 and AVI devices.
 - During an object comparison, the modified line will be highlighted in Yellow.
 - During object comparison, if the selected objects (with the same name) are available in multiple partitions, then the comparison will be performed on a random configuration.
 - The object/environment comparison is available only for the F5 devices. However, it is not supported for the F5 objects GTM pool member, GTM virtual server, LTM pool member, child Wide IP, records, interfaces, VLAN, self IPs, SNAT translation list, and traffic group.
- The Import option in the Dashboard does not support objects of different devices at a time.
- In the Application View widget,

- Actions cannot be configured or performed on an empty group.
- Actions can be customized for an object type and not for the individual objects.
- There is no auto-suggest option when you configure an object.
- (For application widgets only) To handle the device flip and monitor the active objects seamlessly, an option Show only active is available in the dashboard settings.
- In the Traffic Statistics widget,
 - The tooltip will not be displayed if statistics for any of the parameter is not collected.
 - The explicit IP address is not supported for F5 v12 and V13 devices.
 - If the Traffic Statistics widget has been monitored for more than two hours in the Mozilla Firefox browser, it will cause 1 core CPU usage and the browser becomes unresponsive.
 - In the DNS success rate widget, the percentage might drop to zero if the statistics have been reset.
 - The DAY filter in the TOP 10 VIP(s) by Connection and Top 25 Application Connection widgets represents the data for the last 24 hours based on the server time.
 - In the Application Bandwidth and Traffic Statistics Summary widgets, the selection application must contain the F5 and Citrix SLB(s). If any other SLB has been encountered the value will be set to zero.
 - The statistics generation (historic) for the objects in standby is not supported.
 - The statistics are not supported by the AVI GSLB devices.
 - Statistics will not be collected for F5 WideIP type SRV and NAPTR.