

# ***SSLi Harmony App v4.2 Release Notes***

**for A10 Thunder<sup>®</sup> Series and AX<sup>™</sup> Series**

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**A10**

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# RELEASE NOTES FOR SSLI HARMONY APP v4.2

The SSLi Harmony App provides centralized SSLi service configuration and service level visibility to all managed SSLi deployments.

The SSLi Harmony App v4.2 provides an enriched coverage of multiple SSLi deployment scenarios and stand-alone features. The configuration section of this app is redesigned with intuitive interface for customers to perform SSLi deployments, to centrally manage the sites.

This chapter has the following sections:

- [Supported Platforms](#)
- [Supported Browser](#)
- [Video Tutorials](#)
- [Migration](#)
- [What's New?](#)
- [Known Limitations](#)
- [Known Issues](#)
- [Fixed Issues](#)

## Supported Platforms

| SSLi Harmony App Version | Harmony Controller Version  | ACOS Version  | Compatibility   |
|--------------------------|-----------------------------|---------------|-----------------|
| SSLi App v4.2            | Harmony Controller 5.3.0-P1 | ACOS 5.2.1-P2 | Limited support |

## Supported Browser

Recommended Chrome Version: 91.0.4472.124 (Official Build) (32-bit)

## Video Tutorials

- To view the SSLi App v4.2 feature highlights video, click [SSLi Feature Highlights](#).
- To view an introductory video on how to install and use the SSLi Harmony Apps, click [Introducing SSL Harmony App](#).

## Migration

### Prerequisites

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- Existing SSLi App users must upgrade the Harmony Controller 5.3.0 to 5.3.0-P1 version before upgrading SSLi App v4.1 to v4.2.
- New SSLi App users must install the Harmony Controller 5.3.0-P1 version before upgrading SSLi App v4.1 to v4.2.
- Thunder and Harmony Controller clock must be in sync and must be within the time difference of less than one minute.

**NOTE:**

When deploying High Availability (HA) based topologies, Thunder HA pair devices must have VRRP-A configured before registration with Harmony Controller as a HA cluster. Some VRRP-A configuration settings are not permitted after VRRP-A is enabled. For more information, refer to [SSLi Getting Started Guide](#).

### Migration Paths

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SSLi Harmony App provides an option to easily migrate their SSLi App v2.4 or v3.0 configurations to v4.0, v4.1, and v4.2. User does not need to manually deploy the sites and site groups again; SSLi Harmony App recognizes and automatically migrates the SSLi configurations from previous versions.

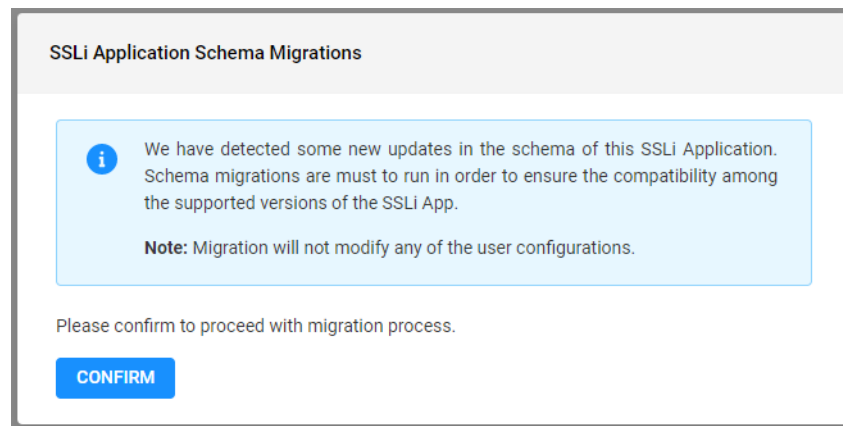
**NOTE:**

SSLi Harmony App does not recommend direct migration from SSLi App v2.4 and v3.0 to v4.1 or v4.2. It is recommended to first migrate from SSLi App v2.4 or v3.0 to SSLi App v4.0 and then upgrade to SSLi App v4.1 or v4.2 using same steps.

## Migration from SSLi App 4.0 or 4.1 to 4.2

SSLi Harmony App v4.2 has a different schema implementation. When SSLi Harmony App v4.0 or v4.1 is migrated to v4.2, a Schema Migration pop-up is displayed at the time when SSLi Harmony App v4.2 is launched for the first time. Schema migration is mandatory as, without this migration, the objects used in v4.0 or v4.1 will not be imported properly, which can lead to deployment issues later.

FIGURE 1 : Schema Migration



## What's New?

The SSLi Harmony App v4.2 focuses on enriched deployment and configuration support, that includes the following features:

- [SaaS Tunnel Support](#)
- [Introduced Troubleshoot Feature](#)
- [Introduced Mirror Port Feature](#)
- [O-in-O Configuration Support](#)
- [VLAN Bridging Support](#)
- [Rollback Support](#)
- [Introduced New Shared Objects](#)
- [Addition to Existing Shared Objects](#)
- [Feature Enhancements](#)

**NOTE:** For detailed information, refer [SSLi Harmony App User Guide](#).

## SaaS Tunnel Support

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The Harmony as a service is now available for the SSLi users. This configuration deployment is supported over SaaS (Software as a Service) Tunnel for which HC-SaaS license is required.

SSLi users can register their Thunders to the Harmony on the cloud and manage their Thunder devices. Since the devices are present locally, a tunnel is created for configuration deployment from Cloud HC to thunder devices.

## Introduced Troubleshoot Feature

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The 'Troubleshoot' module or feature is introduced to directly interact with the Thunder devices for debugging any error occurred during the device health check or end-to-end traffic management.

This feature allows users to see different device health statuses, including clock sync, various license statuses, and overall system status. Also, traffic can be monitored at the VIP level by another test and review valuable stats of the selected device VIPs.

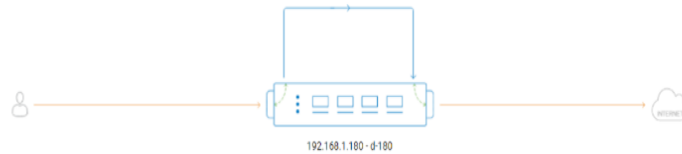
Troubleshoot performs the following three different types of tests:

- End-to-end Test: Enables troubleshooting the expected traffic flow by running mocked traffic flow. It then presents the results of all the involved app services across various stages of flow.
- Basic Stats: Provides the current status of all devices licenses, interfaces, and clock sync state.
- Advanced Test - Captures and displays several stats for the selected combination of app services, including ACL stats, SSL stats, SSL error, SSL forward proxy stats, SSL counter, Virtual server detail, and SSL logs.

FIGURE 2 : Troubleshoot > End-to-End Test

**End-to-end Test**

End to end test helps to troubleshoot the expected traffic flow by running mocked traffic flow. It then presents the results of all the involved app services across various stages of flow.



| Status | Traffic Flow | Test Run   | Details   | Actions  |
|--------|--------------|--|---|----------|
| Passed | Outbound     | Inside: inside_vip_ipv4_1_https_443<br>Outside: outside_vip_ipv4_1_http_8080 | Upcoming Traffic, Virtual Service Hits, Certificate Fetch, Traffic Decrypted, Traffic Sent to F/W<br>Incoming Traffic, Virtual Service Hits, Traffic Re-encrypted, Traffic Sent to Internet | RUN TEST |
| Passed | Outbound     | Inside: inside_vip_ipv4_1_https_443<br>Outside: outside_vip_ipv4_1_tcp_443   | Upcoming Traffic, Virtual Service Hits, Certificate Fetch, Traffic Decrypted, Traffic Sent to F/W<br>Incoming Traffic, Virtual Service Hits, Traffic Re-encrypted, Traffic Sent to Internet | RUN TEST |

## Introduced Mirror Port Feature

The mirror port feature is introduced to allow traffic monitoring of an interface on another interface. This feature facilitates the user to use the same interface for multipurpose. Users can monitor only the traffic of the interfaces used in the topology. However, any device interface can be used for monitoring purposes.

This feature is supported for all the traffic flows and security devices that supports SSLi Harmony App. In addition, users can configure the mirror port through guided as well as unguided mode.

**NOTE:** Mirror Port is supported only if a physical device is used within the site.



FIGURE 3 : Configure Monitor Interface



| Monitor ID | Traffic Type | Mirror interface | Monitor interface |
|------------|--------------|------------------|-------------------|
| 1          | Output       | e7               | e1 x e3 x         |
| 2          | Both         | e5               | e2 x              |
| 3          | Input        | e6               | e3 x              |
| 4          | Output       | e8               | e4 x              |

## Q-in-Q Configuration Support

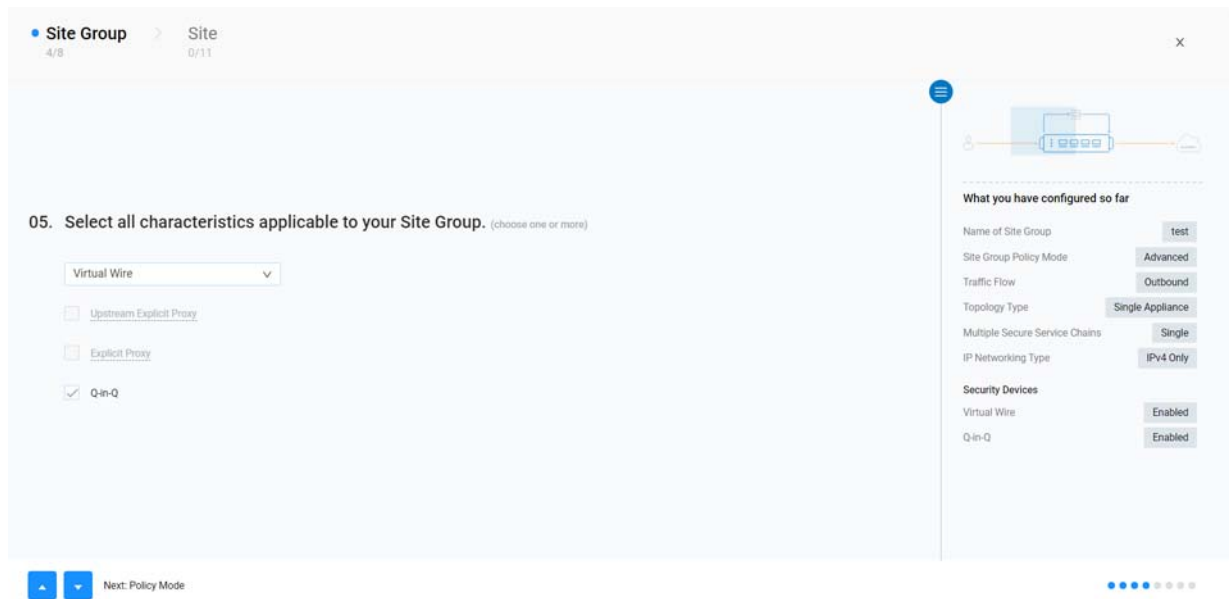
The Q-in-Q configuration support is provided as a part of the core Site group settings and is editable only during Site Group creation. Users can add or update this setting at the Site level.

This feature is supported only in the case of:

- IP-Less and Virtual Wire modes
- A physical device used within the site

**NOTE:** Once the Q-in-Q configuration is set during Site Group creation, the users cannot undo this operation.

FIGURE 4 : Enable Q-in-Q

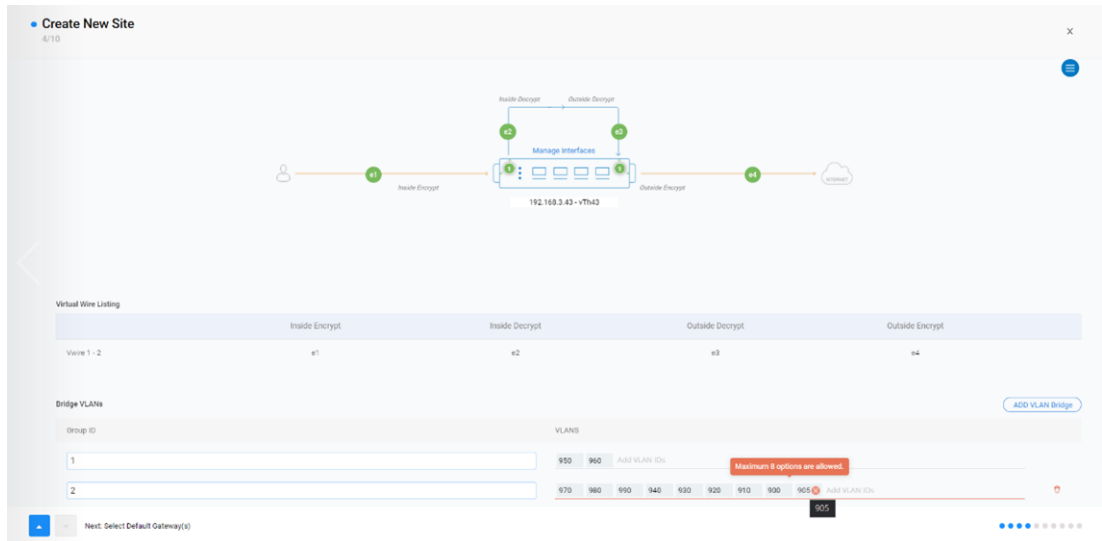


## VLAN Bridging Support

SSLi Harmony App now supports VLAN bridging into groups using Group ID at the Site level.

**NOTE:** This feature is supported only for Virtual Wire mode.

FIGURE 5 : Bridge VLAN



## Rollback Support

The rollback feature support is provided, which allows the users to roll back to the previous configurations in case of deployment failure and success on the devices.

This feature can be configured or initiated through the 'Initiate Rollback' button available on the top right of the Deployment page.

FIGURE 6 : Initiate Rollback



## Introduced New Shared Objects

The shared objects are an abstraction of the configurations, and the same configuration can be used and re-used across multiple policies.

The following new Shared Objects are added to SSLi Harmony App v4.2:

- Zone
- Geo Location
- Limit Policy Template
- SAML IDP Metadata File
- SAML Identity Provider
- SAML Service Provider
- Authentication Service Group
- Authentication Server
- Authentication Relay
- OAuth Authorization Server
- OAuth Authorization Client

## Addition to Existing Shared Objects

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A number of features and enhancements are added to the existing shared objects in SSLi Harmony App v4.2.

The details are as follows:

- Network Object Group - Used for:
  - ACL with IP Type > Any or Custom
  - Firewall Rule Set
- Authorization Policy
  - Operation – AND, OR
  - Attribute Name Type – A10 Dynamic Defined (Match, Sub String)
  - Attribute Type – Number (for Attribute Name Type > Attribute Name)
- Firewall Rule Set
  - Source Options
  - Destination Options
- User Access Control
  - Authentication Section - Support for Authentication Server & Service Group
  - Authorization Section - Support for Authentication Server & Service Group
  - Support for three types of Authentication templates – Standard, SAML, OAUTH
  - Support for Authentication Relay
  - Support for Cookie Options in Authentication Template

## Feature Enhancements

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The following feature enhancements are available in SSLi Harmony App v4.2:

- [Quick Trial License Support](#)
- [Difference Tool Enhancement](#)

### Quick Trial License Support

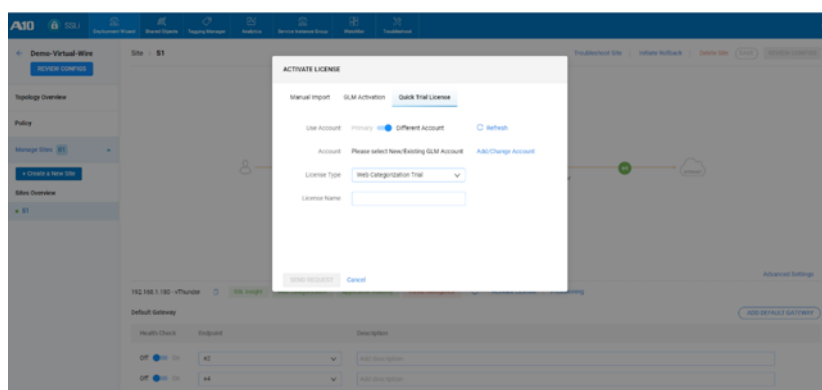
The Quick Trial License feature allows the users to easily connect with the GLM portal to auto-create or fetch the trial license for the configured device at the site level. In addition, a 'Quick

Trial License' new tab is introduced in the 'License Module' at the site level for both guided and unguided modes.

Users can activate the license in the following ways:

- Use the primary account to automatically fetch the license when the 'Quick Trial License' tab is accessed.
- Add a different account using the 'Quick Trial License' tab and then connect the GLM portal.

FIGURE 7 : Quick Trial License Tab



## Difference Tool Enhancement

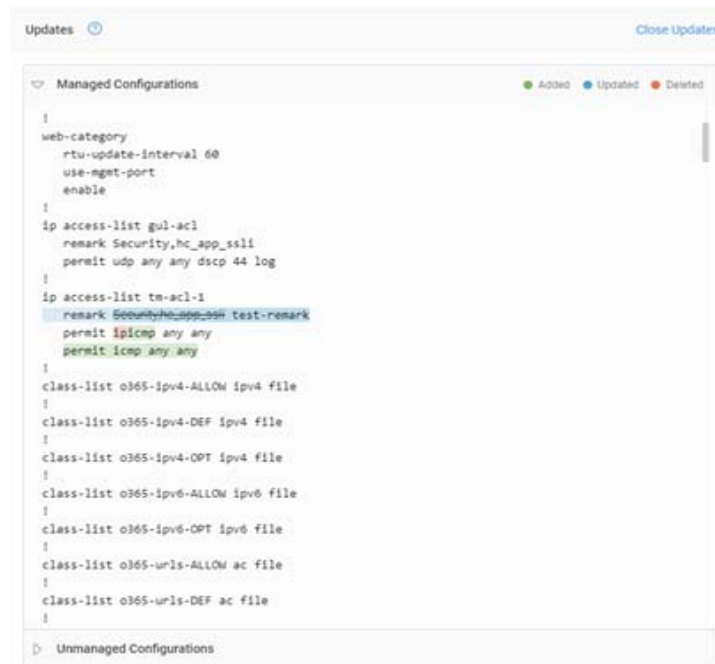
The Difference Tool was introduced in the previous release to review the deployment updates/differences in a side-by-side view. Additionally, the Review Update section displays the new, updated, or removed configuration as green, blue, and red highlighted text.

This tool is now extended to include two different sub-sections under the Review Updates section:

- Managed Configurations – Contains all the configurations that are supported through SSLi Harmony App.
- Unmanaged Configurations – Contains all the parent level configurations that are not supported through SSLi Harmony App.

**NOTE:** Any out of band configurations (that SSLi Harmony App neither recognizes nor overrides) is not shown in the Review Updates section.

FIGURE 8 : Review Updates Highlighted



## Known Limitations

The known limitations for SSLi Harmony App v4.2 are:

- Recent SSLi features, related settings such as dynamic routing, VCS and advanced custom topologies, are not supported.
- Harmony Controller tenant awareness for configuration objects is not supported. User must log in as Provider Admin.
- For ACL Remark rule if its position or content has been updated then bindings will get through delete and create flow.
- Bypass O365 configurations are not supported during Brownfield import and will be configured using SSLi Harmony App only.

The following limitations are tracked for SSLi Harmony App v4.2:

| <i>Tracking ID</i> | <i>ACOS Tracking ID</i> | <i>System Area</i> | <i>Description</i>  | <i>Version Reported</i> |
|--------------------|-------------------------|--------------------|---|-------------------------|
| HSA-6291           | NA                      | ACOS               | HTTP/2 vport is not supported as it's a deprecated config in the recent ACOS release.   | ACOS 5.2.1-P2           |
| HSA-6285           | NA                      | SSLi App           | WIA SPN configurations are not recognized during Brownfield import through the SSLi App.  | SSLi App 4.2            |
| HSA-6230           | NA                      | SSLi App           | The string type class-list configurations are not imported in the Brownfield Import.  | SSLi App 4.0            |
| HSA-6171           | NA                      | ACOS               | The Mirror Port feature is only supported on physical devices.  | SSLi App 4.2            |
| HSA-6170           | NA                      | ACOS               | The Q-in-Q is only supported on physical devices.   | SSLi App 4.2            |
| HSA-5782           | NA                      | SSLi App           | Two shared objects with the same name cannot be deployed in the same partition. Therefore, only the first shared object configuration will be pushed to the Thunder.<br><br>The same name shared objects with different configurations can be pushed to separate partitions only. | SSLi App 4.2            |
| HSA-5562           | NA                      | SSLi App           | IP Pop-view in illustration at site level will always show the IPv4 Address upfront even if IPv6 is configured for Dual IP networking type site group.  | SSLi App 4.1            |
| HSA-5560           | NA                      | SSLi App           | The custom template policy is not supported in Simple Guided Site group flow.   | SSLi App 4.1            |
| HSA-5558           | NA                      | SSLi App           | In order to configure Custom Server, Server Options template needs to be bound in the Service Group Member Table. Then this Service Group should either be bound in Template Policy or in vports Advanced Settings.   | SSLi App 4.1            |
| HSA-5557           | NA                      | SSLi App           | Combination of traditional IPless for Outbound & vWire based Inbound is not supported in either greenfield or brownfield.   | SSLi App 4.1            |
| HSA-5556           | NA                      | ACOS               | Field "Server Name" in Server SSL Inspection (Inbound) can only be configured on thunder devices with ACOS 5.0.0 Series & higher.   | SSLi App 4.1            |



## Known Limitations

| <i>Tracking ID</i> | <i>ACOS Tracking ID</i> | <i>System Area</i> | <i>Description</i>  | <i>Version Reported</i> |
|--------------------|-------------------------|--------------------|---|-------------------------|
| HSA-5555           | NA                      | SSLi App           | Server Name Bypass options available in Client SSL Inspection (Inbound) profile can be configured only if one of the following options in same profile are enabled: <ul style="list-style-type: none"> <li>• Server Name AutoMap</li> <li>• Server Name List</li> <li>• Server Name Regex List</li> </ul> | SSLi App 4.1            |
| HSA-5554           | NA                      | ACOS               | TLS_1.3 (Version 34) in Client & Server SSL Inspection profiles can only be configured at backend if "ssl-module software-tls13" is set (device reload/reboot is required).<br><br>TLS_1.3 is supported in ACOS 5.0.0 series and higher.  | SSLi App 4.1            |
| HSA-5502           | NA                      | SSLi App           | 'Threat Distribution/Threat Categories By Connections' charts have no data to display while selecting the time window in 24 hours ago or past.  | SSLi App 4.1            |
| HSA-5436           | 534712                  | ACOS               | In the inbound deployment mode, the outside HTTPS virtual port will not send the SSLi error logs.   | ACOS 5.2.1-P1           |
| HSA-5240           | NA                      | SSLi App           | The Analytics top indicator values such as control, data CPU, and memory may take time to load the data. Hence, it may display 0%. This is an intermittent issue.   | SSLi App 4.1            |
| HSA-5188           | NA                      | Harmony Controller | In the inbound flow, the app service type for re-encryption virtual port inside SSLi will not be SSLi but SLB. This happens when the 'Forward Proxy Enable' option is not configured in the Server SSL inspection profile. Hence, Thunder will not send SSLi Connection for Error logs.                   | SSLi App 4.1            |

| Tracking ID | ACOS Tracking ID | System Area | Description   | Version Reported |
|-------------|------------------|-------------|---|------------------|
| HSA-5182    | NA               | SSLi App    | <p>During Brownfield Import, Configurations of all shared objects are merged by name to make them unique.</p> <p>By doing this configs of Inside Partition objects are replaced with Outside Partition objects if their names are similar.</p>  | SSLi App 4.1     |
| HSA-5176    | NA               | SSLi App    | <p>If client-ssl is imported from Brownfield Config Recognition, user will need to add passphrase value manually from the client-ssl shared object UI, in order to avoid deployment error "msg": "Communication error with LB process"</p>  | SSLi App 4.1     |
| HSA-5175    | NA               | SSLi App    | <p>If Server Name and Server Name Regex is configured from Server Name Table in shared objects (same name), then user cannot delete row in one deployment. Following steps should be taken to remove server name with regex.</p> <ul style="list-style-type: none"> <li>• Uncheck Regex checkbox and deploy.</li> <li>• Delete server name row and deploy.</li> </ul> | SSLi App 4.1     |
| HSA-5159    | 536845           | SSLi App    | <p>If a partition is created using Harmony Controller or SSLi App and then removed from the Thunder device, then creating a partition again from the HC or SSLi App may fail.</p>   | SSLi App 4.1     |
| HSA-5086    | NA               | SSLi App    | <p>Only those interfaces that are configured in Virtual Wire can be used as endpoints for default gateways.</p>   | SSLi App 4.1     |
| HSA-5067    | NA               | SSLi App    | <p>The HTTP header template is applied to vport so that HTTP header "Frontend_SSL: Enabled" will be inserted regardless of whether traffic is decrypted by SSLi or not.</p>   | SSLi App 4.1     |
| HSA-5066    | ACOS-305         | ACOS        | <p>The bypass destination IP for EP Deployment does not check the resolved IP Address.</p>  | SSLi App 4.1     |
| HAS-5065    | ACOS-305         | ACOS        | <p>The bypass source IP for EP Deployment is not supported.</p>   | SSLi App 4.1     |

Known Limitations

| <i>Tracking ID</i> | <i>ACOS Tracking ID</i> | <i>System Area</i> | <i>Description</i>   | <i>Version Reported</i>  |
|--------------------|-------------------------|--------------------|--|--------------------------|
| HSA-4970           | NA                      | SSLi App           | User will need to manually configure speed-forced from Device Terminal. SSLi App does not support these options and will not remove this command during deployment, if configured manually through terminal.   | SSLi App 4.1             |
| HSA-4206           | NA                      | SSLi App           | For per Interface or per segment network deployments, SSLi App only recognizes the interfaces and associated VLANs that are selected by the user in the "Interface" selection steps.   | SSLi App 4.0             |
| HSA-3969           | NA                      | Harmony Controller | All the devices must belong to the same provider, otherwise after using "Upgrade Feature" some devices will face authentication error problems. This happens because, each provider maintains its own set of clusters or devices on Harmony Controller.<br><br>A10 Network recommends using root provider with the application to avoid any unexpected issues. | Harmony Controller 5.2.0 |
| HSA-3865           | NA                      | SSLi App           | Router BGP configurations cannot be configured from Harmony Controller or SSLi App.  | SSLi App 4.0             |
| HSA-3815           | NA                      | SSLi App           | OSPF settings are not supported by SSLi App.   | SSLi App 4.0             |
| HSA-3762           | NA                      | SSLi App           | L2 High Availability is not supported. It is recommended to use L2 redundancy, that requires an external switch with STP.  | SSLi App 4.0             |
| HSA-3677           | NA                      | SSLi App           | The 'vrrp-a l3-inline-mode' command must be pre-configured before Harmony Controller registration. This configuration cannot be added from SSLi Application.   | SSLi App 4.0             |
| HSA-3538           | NA                      | SSLi App           | A site cannot be deployed if it contains a device that has been deregistered later. Similarly, a site containing a deregistered device cannot be deleted if the 'Skip Configs Delete' check box is disabled.   | SSLi App 4.0             |

| <i>Tracking ID</i> | <i>ACOS Tracking ID</i> | <i>System Area</i> | <i>Description</i>  | <i>Version Reported</i>  |
|--------------------|-------------------------|--------------------|---|--------------------------|
| HSA-3537           | NA                      | SSLi App           | If the 'ip allow-promiscuous mode' option is configured on the interface ethernet for the first time then the device must be reloaded manually from the Thunder device. | SSLi App 4.0             |
| HSA-3536           | NA                      | Harmony Controller | Any configuration update made directly on Thunder device and not through the Harmony Controller App may not be recognized in some of the cases and can cause conflicts. | Harmony Controller 5.2.0 |
| HSA-3535           | NA                      | SSLi App           | The decryption (inside) partition must have access to the Microsoft endpoint so that the automatic update feature for Microsoft Office 365 bypass can function.         | SSLi App 4.0             |
| HSA-2400           | NA                      | SSLi App           | VLAN and interface numbers used in one partition cannot be exchange in another partition in the very next deployment, one has to first unbind and then bind again.      | SSLi App 4.0             |

## Known Issues

The following issues have been reported for SSLi Harmony App v4.2:

| <i>Tracking ID</i> | <i>ACOS Tracking ID</i> | <i>System Area</i> | <i>Description</i>  | <i>Version Reported</i>     |
|--------------------|-------------------------|--------------------|---|-----------------------------|
| HSA-6472           | NA                      | SSLi App           | During Brownfield import, the ICAP service is not fetched if it is bound to Outside Policy Rules in the Transparent topology. | Harmony Controller 5.3.0-P1 |
| HSA-6471           | NA                      | SSLi App           | PFX format certificate cannot be configured in SAML Service Provider for OAuth type authentication template.                  | Harmony Controller 5.3.0-P1 |
| HSA-6470           | NA                      | SSLi App           | During Brownfield import, the Threat intelligence profile bound to default rule-set is not fetched.                           | Harmony Controller 5.3.0-P1 |
| HSA-6460           | NA                      | SSLi App           | SAML Identity Provider profile cannot be replaced with a different profile for SAML/OAuth type authentication template.       | Harmony Controller 5.3.0-P1 |
| HSA-6263           | NA                      | SSLi App           | In private partitions, if the number of profiles exceeds the maximum value (11), then the deployment fails.                   | SSLi App 4.2                |

| <i>Tracking ID</i>   | <i>ACOS Tracking ID</i> | <i>System Area</i> | <i>Description</i>  | <i>Version Reported</i> |
|----------------------|-------------------------|--------------------|---|-------------------------|
| HSA-6178             | ACOS-1326               | ACOS               | The Auth Portal Image bound in the user access profile cannot be fetched during the Brownfield import.  | SSLi App 4.2            |
| HSA-6169             | NA                      | SSLi App           | In the Virtual Wire topology, when the user imports a site from the Brownfield deployment, the host IPs of the AAM server are highlighted in red.   | SSLi App 4.2            |
| HSA-6163             | NA                      | SSLi App           | User defined remark of ACL is removed during the Brownfield deployment.   | SSLi App 4.2            |
| HSA-6123             | NA                      | SSLi App           | When AAM is configured and then review the configuration, the password is not encrypted.  | SSLi App 4.2            |
| HSA-6114             | NA                      | SSLi App           | Configuring and then deleting the AAM policy using SAML through UAC on the SSLi App causes Thunder device to reboot.  | SSLi App 4.2            |
| HSA-5820             | NA                      | ACOS               | Four Mirror ports cannot be configured if the Traffic type of one of the ports is set to Both.  | ACOS 5.2.1-P2           |
| HSA-5736             | NA                      | ACOS               | The SAML Type Authentication template cannot be removed from Thunder device even if the AAA policy is removed to refer authentication template.<br><br>"The authentication configuration is in use." error message is encountered when the user attempts to remove the authentication template. | ACOS 5.2.1-P1           |
| HSA-5719<br>HSA-5636 | NA                      | SSLi App           | The authentication service group cannot be updated or modified when the: <ul style="list-style-type: none"> <li>• Host of any authentication server is bound as a member.</li> <li>• Port of any authentication server is bound as a member.</li> </ul>   | SSLi App 4.2            |
| GUI-5693             | NA                      | SSLi App           | The Traffic Insights > Key Exchange Methods, TLS Versions, and Cipher Suites charts may not be able to display the data while selecting a long time period.   | SSLi App 4.1            |
| HSA-5651             | NA                      | SSLi App           | If an authentication template is bound in AAA-policy (the default behavior for AAM), then the type of authentication template (Standard, SAML, OAUTH) cannot be changed or updated.   | SSLi App 4.2            |

| <i>Tracking ID</i> | <i>ACOS Tracking ID</i> | <i>System Area</i> | <i>Description</i>  | <i>Version Reported</i>  |
|--------------------|-------------------------|--------------------|---|--------------------------|
| GUI-4213           | NA                      | SSLi App           | Data from ACOS 5.2.0 will not be displayed in the 'Certificates in Cache' chart on the Analytics > Traffic Insights widget.   | SSLi App 4.0             |
| GUI-4049           | NA                      | SSLi App           | Even though the inline EP feature can decrypt/bypass HTTPS traffic, the Analytics cannot show HTTPS traffic statistics because the inline EP vport is recognized as an SLB app service. | SSLi App 4.0             |
| GUI-3882           | 520102                  | ACOS               | Additional burst traffic/throughput is displayed on Apps when Harmony Controller is rebooting and initializing.   | Harmony Controller 5.2.0 |

## Fixed Issues

The following fixed issues are tracked for SSLi Harmony App v4.2.

| <i>Tracking ID</i> | <i>ACOS Tracking ID</i> | <i>System Area</i> | <i>Description</i>  | <i>Version Reported</i> |
|--------------------|-------------------------|--------------------|---|-------------------------|
| HSA-5561           | NA                      | SSLi App           | The shared objects names conflict does not occur anymore since the shared objects UUID is used instead of their names for comparison.   | SSLi App 4.1            |
| HSA-5559           | NA                      | SSLi App           | Review Updates Section will now support and show Out of band configurations (Device configuration objects/ commands which are not supported through SSLi Application).            | SSLi App 4.1            |
| HSA-5182           | NA                      | SSLi App           | During Brownfield Import, all shared object configurations are not merged by name to make them unique since the shared object UUID is used for comparison instead of their names. | SSLi App 4.1            |

## Fixed Issues

| <i>Tracking ID</i> | <i>ACOS Tracking ID</i> | <i>System Area</i> | <i>Description</i>  | <i>Version Reported</i> |
|--------------------|-------------------------|--------------------|---|-------------------------|
| HSA-5093           | NA                      | SSLi App           | Any encrypted data such as passphrase keys or passwords will now be recognized as asterisk encrypted data.<br><br>When a user deploys the configurations again, the same encrypted key will be used. Thus, there is no need to change the previously configured password. | SSLi App 4.0            |
| HSA-4608           | 534859<br>536653        | ACOS               | If the server-name-list is already configured in the client-SSL, then axAPI request now passes when executing the client-SSL POST call.   | SSLi App 4.1            |
| HSA-3871           | NA                      | SSLi App           | AAM LDAP domain name server configurations are supported through SSLi App.  | SSLi App 4.0            |

## SUPPORT INFORMATION

The A10 Networks® technical and customer support team is available at your service on phone, email and web channels for your queries on SSLi Harmony App.

- **Contact:** <https://www.a10networks.com/company/contact-us>
- **Support:** <https://www.a10networks.com/support>
- **Call (International):** 1-408-325-8676
- **Call (Toll-Free USA & Canada):** 1-888-TACS-A10



