# OpServe v0.1.0 (Allen)

## Release Notes

### 1st June 2016

These release notes provide information about the release of OpServe v0.1.0 (Allen) and the associated changed to iAM:Servers agents.

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## About OpServe v0.1.0 (Allen)

In July 2015 the decision had been made to conclude development of Itheon iAM:Appliance to version7.1a. The decision was also made to work on a more elaborate system that provides not only data display from iAM:Servers agents, but to:

- incorporate a central collection and analysis mechanism

- Simplifying the ability to receive and send data to interact with other systems

- Empowering users to create and manipulate monitoring rules

Our beta model was labelled Itheon 10 v0.1 and was made available in November 2015 internally for feedback and to progress enhancement development.

Itheon OpServe v0.1.0 (Allen) is designed to replace this version and aims to provide a new method for monitoring and alerting on basic “threshold” based monitoring solutions. It aims therefore to offer initial foundations to central monitoring capabilities and also provide users with screens to easily display devices sending traffic and what alerts have been generated based on the performance metrics they are sending.

The other primary aim of this release is to provide a mechanism to manage rule files on iAM:Servers agents remotely to drastically save time spent updating BCMS Itheon rule solutions.

# Enhancements

## General

| **Enhancement** | **Reference** |
|---|---|
| A method to logout of the webpage | **OPS-308** |
| A Visible flag for a threshold breached on Device pages (as a drawn circle). | **OPS-379, OPS-465** |
| Default sort for servers with threshold breaches to go to top of device page on loading | **OPS-385** |
| Visible flags to be removed from device page when threshold is no longer breached | **OPS-423** |
| Ability to delete users login credentials | **OPS-441** |
| Table to store events generated by central rules | **OPS-444** |

| | |
|---|---|
| Display table of events on Alerts Webpage | **OPS-445** |
| Expanded options (Regex, etc.) in Rule Language | **OPS-461** |
| Reduce the number of devices loaded at one time | **OPS-472** |
| Dynamic loading of data to webpages | **OPS-482, OPS-483, OPS-484** |
| Alert page to display all fields of an event in right hand pane | **OPS-486** |
| Handling of new Announce Record to display with Device information | **OPS-475** |
| Searches & Sorts to re-request data | **OPS-480, OPS-481** |
| Device page default sort to be number of alerts 1st | **OPS-387** |
| Column headers to freeze on pages | **OPS-463** |
| Include breached metric and threshold breached in alert data | **OPS-469** |
| Searches to re-request data from API | **OPS-480** |
| Add alerts count to device in database | **OPS-600** |
| Alerts page to auto-update | **OPS-487** |
| Counting of instances at top of page | **OPS-526** |
| Alerts “under investigation” to be flagged / shaded | **OPS-538** |
| Dedicated rule / threshold page design | **OPS-474** |
| Historical Alert information available | **OPS-542** |
| Add advanced search function | **OPS-595** |
| Rule engine receiver / handler / worker converted to NPM | **OPS-682, OPS-683, OPS-684** |
| Tagging page design | **OPS-359** |
| Multiple selection method for actions on instances | **OPS-543** |
| Indication for a new device is present when on Device page | **OPS-388** |
| Store iAM:Servers type 9 metrics | **OPS-414** |
| Agent Updater webpage design | **OPS-548** |
| Right-click option – Device page – delete tag/s | **OPS-558** |
| Right-click option – Device page – Tag device/s | **OPS-717** |
| RabbitMQ AMQP Handler (parser) | **OPS-723** |
| SOAP Handler (sending to ITSM tools) | **OPS-725** |
| Email Handler (sending to SMTP server) | **OPS-726** |
| Add tag categories to tagging page | **OPS-724** |
| Save entity level metrics | **OPS-508** |
| Revamp Welcome page | **OPS-777** |
| Changes to footer | **OPS-778** |

# Resolved Issues

General

| Resolved Issue | Reference |
|---|---|
| RabbitMQ suffering split-brain scenarios | **OPS-434** |
| Show devices pane blanks when clicking “show devices” | **OPS-399** |
| Search API using AND not OR function | **OPS-520** |
| Alert page not grouping alerts correctly | **OPS-522** |
| Severity filter showing all when filtering severity:5 | **OPS-524** |
| Right Hand pane not scrollable | **OPS-607** |
| Login page does not show error with authentication fails | **OPS-608** |
| Counting at top of page not working as expected | **OPS-640** |
| Phantom row showing when no devices | **OPS-614** |
| RabbitMQ role failing when running too many nodes | **OPS-739** |
| Device page right hand panel not expanding | **OPS-740** |
| Right-click – edit tags not working properly | **OPS-750** |
| Login errors when building from scratch | **OPS-766** |
| Login not possible in IE | **OPS-688** |
| Broken Websocket | **OPS-743** |
| Multi-selection not working properly on device page | **OPS-763** |
| Alerts not displaying latest first | **OPS-771** |
| Search ability failing | **OPS-772** |
| Multiple selecting occurs every click | **OPS-781** |
| “No Data” splash screen disappears | **OPS-782** |
| When adding tags the front page does not show them until page refreshed | **OPS-783** |
| Searching and filtering fails to work on tag page | **OPS-784** |
| When deleting a user the page gives strange results | **OPS-785** |
| Counting on Entities | **OPS-788** |
| Scrolling down is clearing screen | **OPS-793** |
| “Acknowledge” not working on alerts page | **OPS-795** |

# System Requirements

OpServe 0.1.0 has been designed to be a set of components that are scalable based on how much of a load is expected when being used by a customer. This therefore gives the software range from an in-house IT department to datacentre farm monitoring.

The minimal components required (and their requirements) are:

**OpServe Receiver / Worker / Handler systems:**

Ubuntu LTS 14.04

2GHz CPU

6GB RAM

20GB Hard Disk

**Rabbit MQ Server:**

Ubuntu LTS 14.04

4GHz CPU

6GB RAM

100GB Hard Disk

**Redis Server:**

Ubuntu LTS 14.04

8GHz CPU

8GB RAM

50GB Hard Disk

**Rethink Database Server:**

Ubuntu LTS 14.04

4GHz CPU

8GB RAM

100GB Hard Disk

**Back End / Front End Server:**

Ubuntu LTS 14.04

2GHz CPU

6GB RAM

20GB Hard Disk

# Getting Started with Itheon OpServe v0.1.0 (Allen)

Currently the OpServe infrastructure is to be built by Blue Chip's Application Development team.

In order for OpServe to have data it will need to be receiving iAM:Servers type 9 (Performance) events from any devices.

Currently there are 4 working pages for use in v0.1.0 alpha:

- **Devices –** this will show a summary of all devices that have sent Performance events (including new-format announce records) to OpServe v0.1.0, and will display the latest details regarding its current state.
- **Alerts –** this will show any alerts produced by the global rules where certain statistics collected have breached a defined threshold.
- **Users –** this is where users are added and deleted.
- **Tags –** this is where filter criteria and ordering of devices and be achieved by creating grouping (e.g. platform, environment, location)

# Enhancements to iAM:Servers for compatibility

The iAM:Servers agent is to undergo certain changes so that it is designed to interact better with OpServe. Currently there are 2 changes that should be rolled out in order to work better with OpServe v0.1.0

1. There is a new announce rule that will send Hardware information as a JSON object with a RoboEDA wrapper (as a type 9 event) so that we can be unlimited with how much hardware information we send, and Analyse the information in a format native to OpServe.
2. iAM:Rule Updater is to be installed on agents so that it can interact with the Agent Rule Updater page. This will provide a central repository for agent rules that will be split by Group and Host name for bespoke capabilities. iAM:Rule Updater will then be able to poll OpServe and retrieve any updates to rules without manual intervention.

## Product Licensing

Currently the Licensing of this product is unestablished since it is only used internally at present. This will be addressed in future releases before General Release.

## About Blue Chip

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