

NAE CLI Based Agents: Allows admin/user to configure NAE Agents as other features

Presenters

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Overview

NAE CLI Based Agents: Allows admin/user to configure NAE Agents as any other features!

Feature Overview: AOS-CX 10.9 – NAE CLI Based Agents

- What is **NAE CLI Based Agents**:
 - NAE agent that can be configured using AOS-CX CLI like other features.
- Why NAE CLI Based Agents:
 - simplified monitoring & watch capability to troubleshoot network using **Event Logs**, Debug Logs, **OVSDb**, SNMP MIB/Traps, Packets
 - Agent configuration from management tools like Aruba NetEdit and Aruba Central for better troubleshooting.

Example1

```
nae-agent lite crash_watch_agent
  watch crash_event event-log 1201
  set-condition watch event-log crash_event include
any "hpe-cardd"
  status minor/major/critical/normal
  syslog "Daemon crash detected"
  cli show core \n show uptime \n show system
!
nae-agent lite crash_watch_agent activate
```

Example2

```
nae-agent lite authentication_failure
  watch auth_failure event-log 4601
  set-condition watch event-log auth_failure count 5
  status major
  syslog "Authentication failure detected"
  cli show authentication locked-out-users \n show
system
!
nae-agent lite authentication_failure activate
```

Feature Overview: AOS-CX 10.9 – NAE CLI Based Agents

```
nae-agent lite interface_watch_agent
  watch interface_up event-log 403
  watch interface_down event-log 404
  set-condition watch event-log interface_down include all "1/1/4"
    status minor
    syslog "Interface 1/1/4 is down"
    cli show interface 1/1/4
  clear-condition watch event-log interface_up include all "1/1/4"
    status normal
    syslog "Interface 1/1/4 is up"
    cli show interface 1/1/4
!
nae-agent lite interface_watch_agent activate
```

```
nae-agent lite router_discovery_agent
  watch router_disc_del event-log 3910
    watch router_disc_add event-log 3909
  set-condition watch event-log router_disc_del
    status minor
    syslog "Interface removed from router discovery"
    cli show interface brief
  clear-condition watch event-log router_disc_add
    status normal
    syslog "Interface added to router discovery"
    cli show interface brief
!
nae-agent lite router_discovery_agent activate
```


10.09 Support: NAE CLI Based Agents

Supported in 10.09	Not Supported in 10.09
CLI command to create NAE event for watch capability	CLI command to create NAE for monitor capability Monitor for resource URI
Watch for event log ID	Watch for other data sources: OVSDB, MIB/Traps, Packets, Debug logs
One agent per script	NA
One rule (one active condition and one clear condition only) per script	Multiple rules/conditions
Actions: (a) ActionCLI (b) ActionAlert (c) Syslog	Other actions: ActionShell, ActionCallback, ActionEmail, ActionJob, ActionScript, ActionIPSLA, ActionSystem, ActionCustomReport, ActionCentral, ActionDisplay, ActionPacketCapture, Action3rdParty (ActionServiceNow, ActionSlack, ActionTopdesk)
NAE CLI Watch capability: <ul style="list-style-type: none"> Supports counter on the events (i.e., condition is met and/or the event occurs N times) Support grep for a string on event message (i.e., The event occurs, and it includes/excludes the specific keyword/regex) 	<ul style="list-style-type: none"> time-series operations (i.e., average, rate, min-max, etc.,) or aggregators supported for watch capability. Nested/complex conditions Parameter and arguments support baseline support NAE CLI Monitor capability: <ul style="list-style-type: none"> Support aggregators on the resource URI monitoring Support operator/value, for/duration, transition/from-to on resource URI monitoring
CLI command to display active NAE agents, alerts, details (action output) i.e., 1. Show nae-script 2. Show nae-agent 3. Show nae-agent alerts 4. show nae-agent <agent-name> 5. show nae-agent <agent-name> alerts <instance ID>	Show commands will not display time-series data Alias functionality – provision to create custom alias
Show running-config to display enabled NAE agents Show running-config nae	
Platform supported: 8400, 8320, 8325, 8360, 6300, 6200, 6400	6100, 6000, 4100i
VSX SYNC support	NA
NetEdit/Central Configuration support (dry run support)	Central/NetEdit Integration

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Supported in 10.09	Not Supported in 10.09
<p>WebUI: NAE CLI – generated Agent workflow</p> <p>Overview Page:</p> <ul style="list-style-type: none">Display NAE watches (along with monitors shown)<ul style="list-style-type: none">Scripts: 4/10, Agents: 1/10, Monitors: 4/130, Watches : x/y <p>Analytics Dashboard page:</p> <ul style="list-style-type: none">+ sign should be disabled for the agents having no graphs<ul style="list-style-type: none">ie., WebUI should be able to support agents with no graphs <p>Script page :</p> <ul style="list-style-type: none">Column "System Created" should be renamed to "Origin"Support 3 types of Scripts (system, user, generated).Please note, the word generated is not finalized, will be revised based on feedback from PLM.The generated scripts/agents should only be in Read-Only mode in WebUI.Disable the Delete script and create agent buttons for generated scripts.Under the origin column display a different icon to represent the generated script <p>Script Detail Page:</p> <ul style="list-style-type: none">Disable the + sign to generated agent script <p>Agent page :</p> <ul style="list-style-type: none">Create should hide the generated Script.Edit, Disable, Enable and Delete should be disabled for agents from generated script. <p>Agent Details Window :</p> <ul style="list-style-type: none">Disable the Edit option for generated agents.Display the graph only if the agent object contains the graph.If no graph is available in the agent object, then don't show the graph window.Disable the Navigate button if no graph is displayed <p>The scripts and the agents are displayed in read-only mode. No modification (enable /disable /edit / delete /create) will be allowed.</p> <p>Platform supported: 8400, 8320, 8325, 8360, 6300, 6200, 6400</p>	<ul style="list-style-type: none">WebUI: No graph support for watch capabilityScript generation using NAE CLI agent from WebUI <p>6100, 6000, 4100i</p>

The background features a solid red circle in the upper-left corner. A large, dark blue shape, resembling a stylized 'L' or a corner, occupies the right and bottom portions of the frame. This blue shape is filled with a fine, light blue dot pattern.

Demo



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Enterprise company

Thank you

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