

Sapphire EMA for IPAM Resiliency

Executive Monitor Appliance



Automated IPAM Redundancy

Cygnalabs products offer several high availability options for all of our Sapphire appliance models, including our Sapphire Executive (EX) appliances. A backup EX deployed locally or geographically-dispersed supports redundancy through transactional database replication.

While the outage of the EX appliance does not affect the operations of deployed DHCP/DNS services, which run autonomously, it would affect the ability of administrators to make changes. A redundant EX enables single command activation of the backup system to enable rapid and otherwise automated failover.

Deployed DHCP and DNS services automatically detect the change in available EX and connect to the currently active systems. Administrators can also login to the backup EX seamlessly thanks to DNS configuration. The need for a single command is intent on retaining control on failover to administrators without flapping which can sometimes occur among two peer systems.

To support automation and to add an "external" perspective to prevent flapping, the Sapphire EMA supports continual monitoring of both the primary and backup EX systems and can automatically initiate the failover from the primary EX to the backup EX. Administrator-defined criteria afford controls on defining an outage condition and alerts are provided for notification of faults and failover events.

Sapphire EMA Key Features

The Sapphire EMA provides the following features.

- **Dual Sapphire EX monitoring** – Proactive monitoring of a pair of Sapphire EXs for status and outage conditions.
- **Criteria Sets** – Administrators may define what services states comprises a "down" state. One or more sets each comprising one or more services and corresponding states may be defined. Detection of any one criteria set match would comprise a "down" state conclusion. Such criteria to select from include specification of the state of each major Executive service or daemon.
- **Automated promotion** – upon detection of a criteria set match for EX failure, the EMA will verify the readiness of the backup EX via a similar evaluation of user criteria. If ready, the EMA will automatically promote the backup EX to service.
- **Alerts** – Alerts related to EMA services and EX states are supported in the menu and via logging to an external source as configured.
- **Maintenance mode** – Administrators may configure maintenance mode to prevent an automated failover of the primary EX to the backup during a planned maintenance window.

About Cygnalabs

Cygnalabs is a software developer and one of the top three global DDI vendors. Many Fortune 100 customers rely on Cygnalabs' DDI products and services, in addition to its industry-leading security and compliance solutions to detect and proactively mitigate data security threats, affordably pass compliance audits, and increase the productivity of their IT departments.

Cygnalabs Corp

sales@cygnalabs.com
Toll Free: 844.442.9462
Intl: +1 (305) 501-2430
www.cygnalabs.com

