

15.05

Requirements

- NOC no longer depends on PostGIS
- MongoDB 2.4 or later required (MongoDB 3.0 with [WiredTiger](#) storage engine recommended)

Infrastructure

- Customer portal cp.nocproject.org has been introduced.
- *Support* module allows to collect and share tracebacks and reports about upgrade problems
- NOC can be extended via custom or third-party *solutions*
- One-command NOC node deployment
- NOC nodes can be updated from master node

UI

- General UI cleanup
- Vector glyphs are used instead of icons
- Retina-friendly
- ExtJS 5.1
- Pagerless Model Applications
- Group editing
- Tree Filter

Service Activation

- *Monitor* application
- Improved stability and logging
- Greatly improved performance
- Built-in ssh client supports ECDSA, improved ssh servers compatibility
- Lots of new profiles and scripts
- Great amount of bugfixes
- *AuthProfiles* to store shared credentials
- *Actions* as generalized command snippets
- *.noc cli-commands* for batch command executing

Configuration Management

- Config validation framework built around [CLIPS](#) expert system
- Cisco.IOS, Cisco.IOSXR, Juniper.JUNOS, DLink.DxS and Mikrotik.RouterOS parser
- FM alarms are generated on policy violations

Fault Management

- Event- and alarmclasses can be created via UI
- Lots of new classes and rules
- noc-classifier speedup
- Experimental rule matcher accelerator

Inventory

- Map preview
- Rack layout
- Lots of object models
- Cable conduits
- Connection rules and generic `get_asset` scripts simplification
- ip discovery can be set on per-prefix basis
- Prevent SA system overloading by discovery process
- Sophisticated job scheduling

Performance Management

- Distributed PM infrastructure inspired by [Graphite](#)
- Compact pluggable data storage (MongoDB or RocksDB). See [KVS comparison](#) for details
- Graphite-compatible API for data fetching and manipulation
- Automatic probe configuration on database changes
- Integrated [Grafana](#) dashboard

DNS

- Simple HTTP-based synchronisation scheme
- Various zone-generation fixes