



Get more out of NOI

IBM usergroup Nordics 2021

Event Management – the origin of NOI

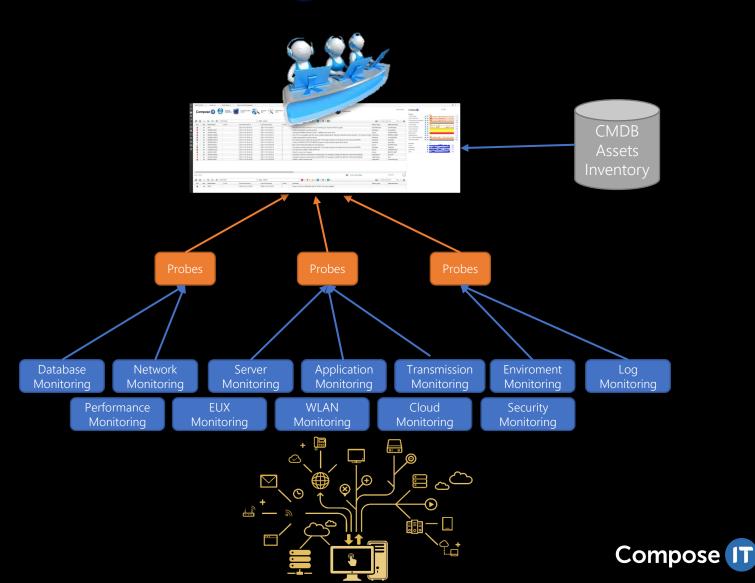
- The ability to collect any events form any source to one system.
- Events is normalized and deduplicated
- Events is enriched with context from CMDB/ Assets/Inventory

This gives:

- All alerts on One screen.
- All events looks the same
- One tool to learn, not 12

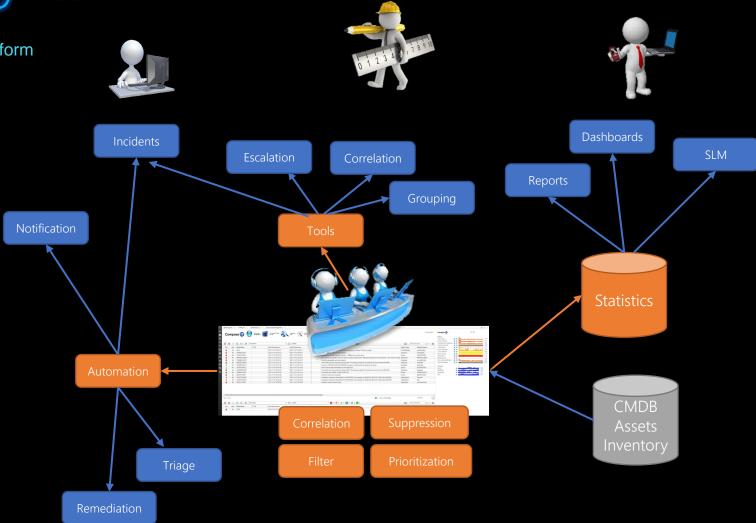
Now it's possible to:

- Prioritize & Filter
- Analyze & Correlate
- Integrate & Automate
- Escalate & share



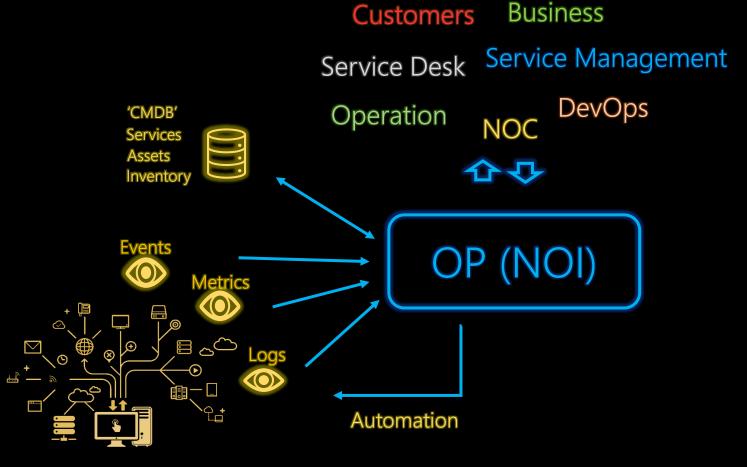
Operational Insights

- With this normalized data, it becomes a platform for:
- Event suppression by:
 - Correlation
 - Filters
 - Prioritization
 - Change suppression
- NOC can:
 - Escalate
 - · Create Incidents
 - Make manual correlations & group-events
- Automation to:
 - Notify & create incidents
 - Escalate
 - Run Triage
 - · Correlations & group events
 - Run remediations
- Statistics to:
 - Run reports
 - Drive Dashboards
 - · Integrate to Service Level Management



Challenges for an Operation platform?

- Ever changing environments
- Changing operational model
- Correct operational information
- TTM (Time to market)
- Different OLA/SLAs
- Less resources
- Different demands from different consumers



Typical demands

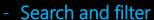




Operation Center

- Tools to manage events
- Group events
- Filter & Views
- Correlations
- Automations





- Overview and context
- History reports
- "my " stuff
- Different ecalations in diffrent teams.

2nd line opreration, 3d line teams, DevOpsTeam



It's all based on 'filters', in one way or another



- How is my service doing?
- How is customer X performing?
 - Reports
 - Dashboards

Event/Monitoring team

- How do we manage milions of events?
- How do vwe fullfill all different requirements?
 - Manage new sources
 - Controll that the right events goes t the right reciver







Goals for a more efficient Operation Platform

1. Easy to add new sources/environments

- Possible to add new sources without affecting way of working reports or dashboards (keep filter and views intact)
- Structured and a defined way to add new environments

2. Easy to manage events

- No technical skill to change event behavior
- Known effect when changing specific attributes

3. Flexible

- Allow for development of new WoW (Way of working)
- Support multiple wow at the same time (IT-Ops, DevOps, Infra, Application, ...)

4. Quick to meet new demands

- Easy to create new filters and views
- Fast & easy to set up new dashboards
- Easy to search and export information
- Easy to develop new features



- Attribute Data Model
- Define incoming events (Event Classification)



 GUI for attribute management (Dynamic Event Management)



 Dynamic escalation (action) rules to route alerts



- Drag n drop dashboards
- Flexible search/history

Classify incoming events and set attributes that makes filters easy and flexible!

Event classification

Event source certification: Rulefile and DynamicEventManagement

Minimize Rulefile configuration and allow non experts to administrate Event Certification and event normalization.

A defined process to add new sources and certify events gives an efficient solution.

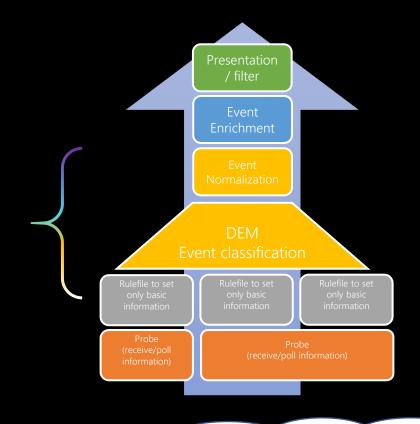
Event normalization: Set attributes: ObjectType, KPI, ServiceAffecting, Actions

By utilizing standardized attributes like ObjectType and KPI together with automated triage-actions and service information events from different sources can be managed by the operation processes with minimal adoption or disruption.

Flexible source differentiation and multidomain support

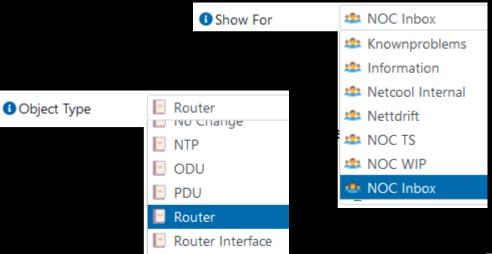
(DEM and Netcool architecture)

The layered approach gives a flexible solution that can adopt to many different sources and technologies and still present and interact with the operational process in a homogeneous way.

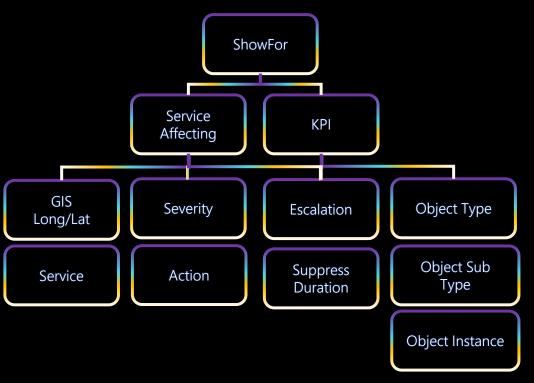




Attribute data model



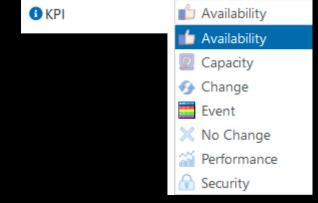
SDH



The datamodel is defined fields in the Omnibus to let you classify and manage how the event will be displayed or if any action should be automated.

With the data model you can have simplified filters and focus on Event Classification.

This will ensure that the right events are visible to the right consumer regardless if it is consumed in reports, dashboards or event lists.



'EMPTY INBOX' CONCEPT (@Show For)

What we mean with empty inbox is literally that anything you see in the event list is something that need attention, an action.

To give an example of rule can be.

An event that indicate communication issue with a device, but from experience we know that we should not act within 30 minutes, so instead of letting the operator "remember" when an event is occurring and remember to check after 30 minutes we HIDE the event and if it's still communication issue after 30 minutes then it will be shown in the Inbox for the operator.

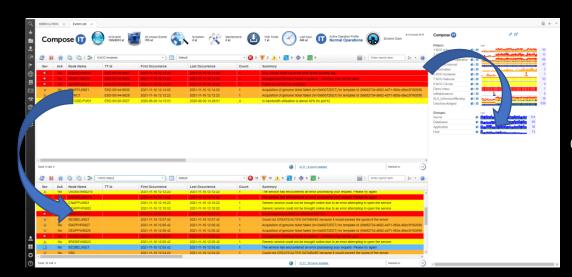
Or

You what an event to be shown for the Operation Center if the disk in volume C: is full, but not for other volumes an 'early warning' should be automatically be created to the application teams

This is type of rules are configured in Dynamic Event Management, DEM and should be managed by Operation and the Netcool operation team to continuously improve the event/alert quality. The way of working is described in the "Event Certification process"

@ShowFor=12 (inbox)

@ShowFor=10 (WorkList)



@ShowFor >= 10



Dynamic Event Management

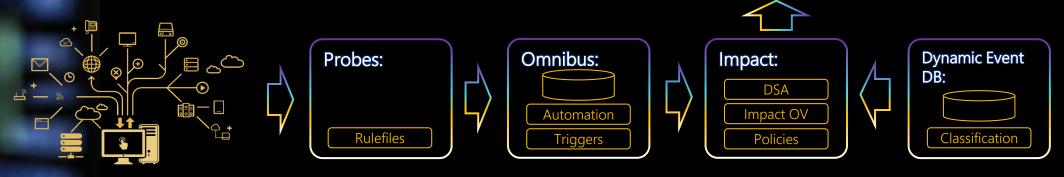
- Defined Data model and triggers
- Event Matching with single or combinations of keys and timeframes
- GUI based Event Classification
- Show For logic Only show events that you expect someone to take care of
- Event Enrichment Severity, ObjectType, Service Affecting, KPI etc.
- Ticket Routing in ITSM system
- Event Actions Mail, SMS, Ticket, Delay, Escalation, Discard, Expire
- Automation Database and Script based if-then-else logic for error isolation, triage and resolution
- Group Correlation Different events from different sources can be correlated to a more important event
- Reclassification Let the event be reclassified in a specified timeframe or XinY logic
- On Duty Management Handle automatic event forwarding to duty groups by duty schedules

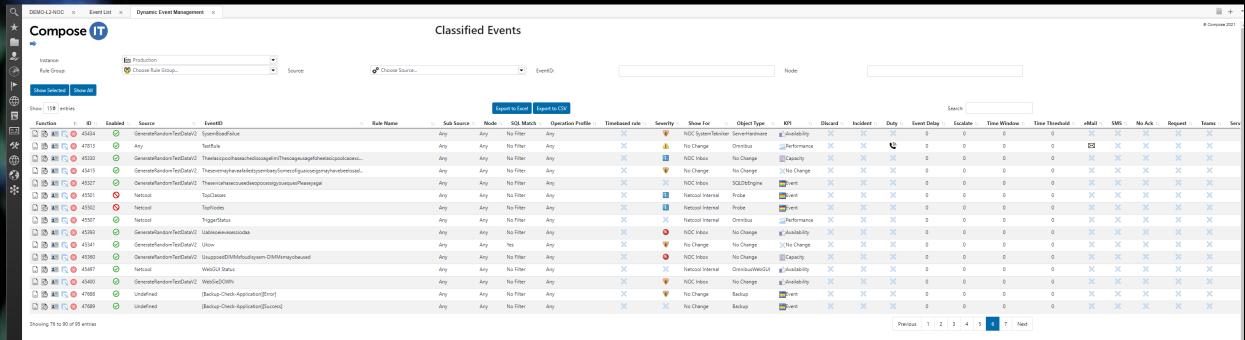


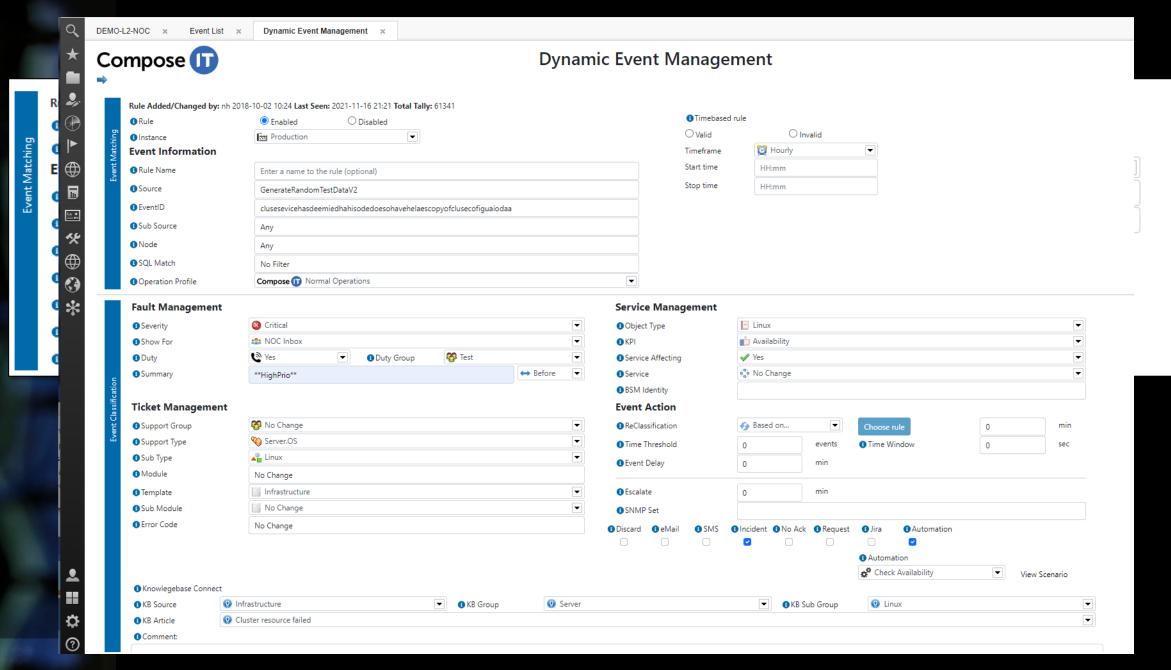




Dynamic Event Management

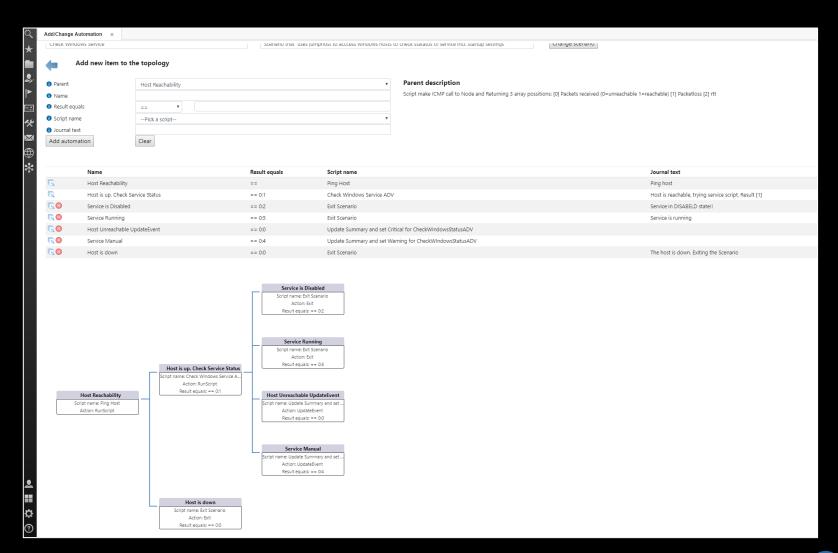






Automation

- If-then-else logic
- Custom scripts
- Update to events
- Clear events
- Escalate events





Event Classification

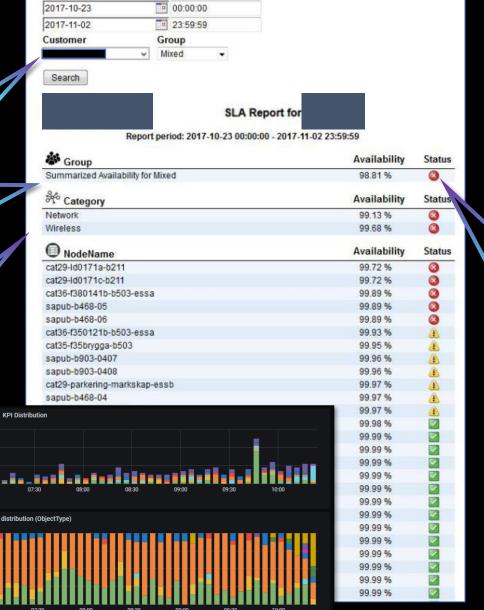
- ObjectType
- KP
- Service Affecting
- ShowFor
- OperationProfile
- Service
- Severity
- USD Group
- Discard
- Delay
- Escalate
- Incident
- Mail
- SMS
- Actions

Groups (Customer) Compose (II)

Choose Time

Groups per Nodes, Service, Site, ...

> Service, ObjectType

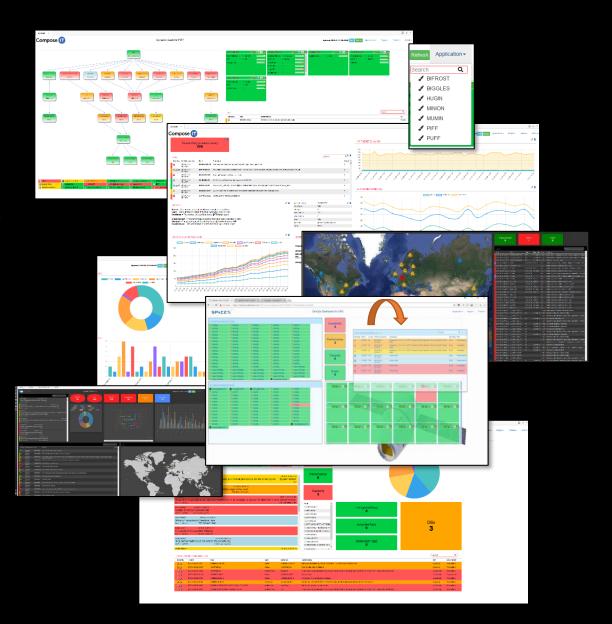


Event Classification, KPI, Service Affecting, SuprEscl



Dynamic Dashboard

- Application or System centric visualization of status.
 - Application filter in dropdown
- Easy to create different dashboard for different teams.
 - Minutes per dashboard
- Realtime and historical data
- Charts, TopN-lists, ServersStatus, CI-status and eventlists
- Branding and themes
- Personal settings per user.
- Drag'n'drop layout
- Built on existing infrastructure (NOI)
- 'Any' data can be added (Impact)



Automatic Filter Visualization

Compose (II)

- Automatic filter visualization and Xmin history
- Dynamic 'filter' (Group Alerts)
 visualization and history.

- Create
- Add
- Remove
- Show
- (Detach)





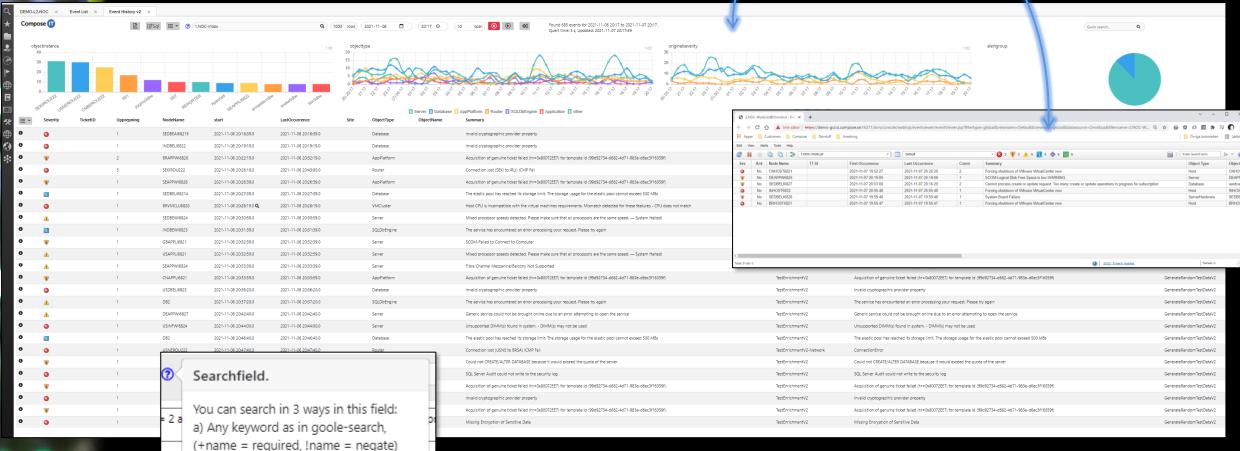
Event Statistics

b) Use strict SQL to guery ReporterDB

c) Type or select an omnibus-filter

Drill down to event-list or the event history-tool





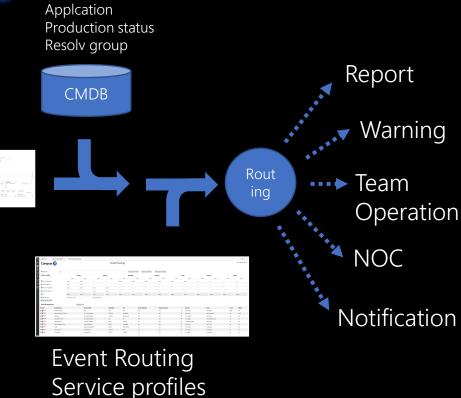
Filter automatically available in history-tool



Event Routing -DevOps logic

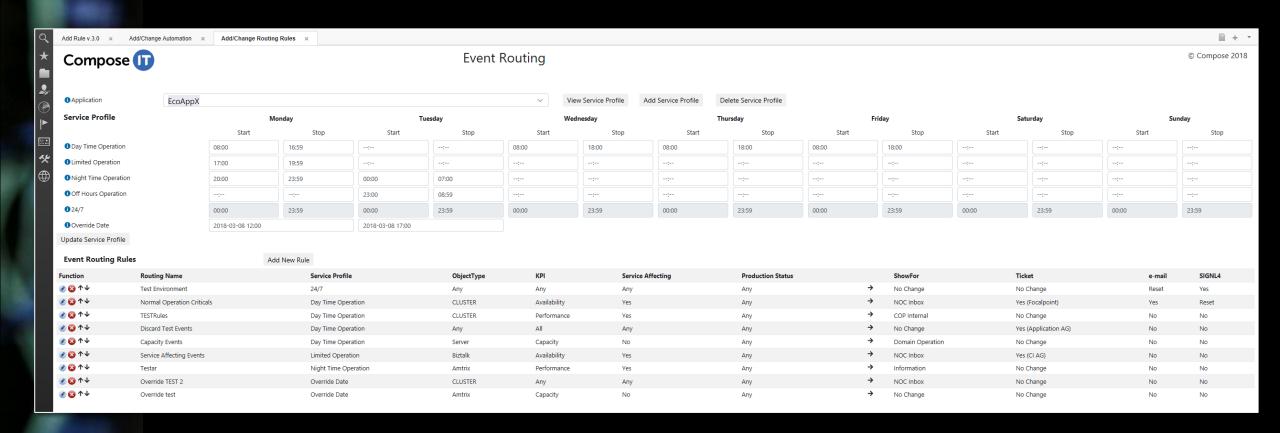
Source

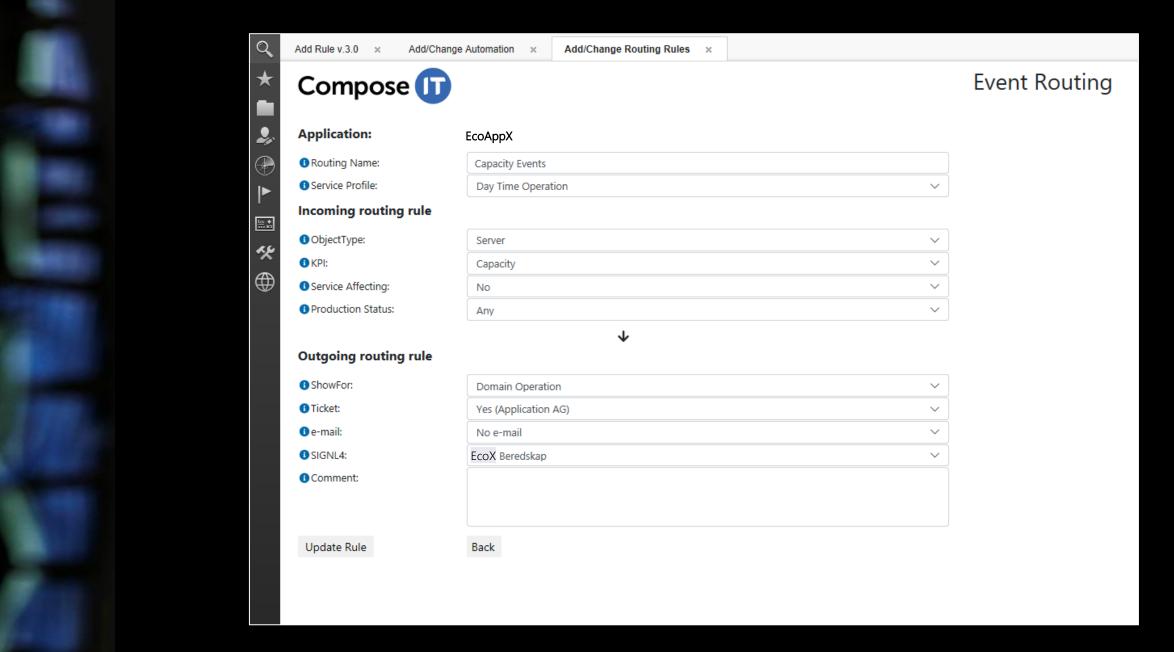
- Generic event classification Dynamic Event Management (DEM)
 - Show For
 - Object Type
 - KPI
 - Service Affecting
 - Infra ('Cl') vs Application group
- Application/Team defined Service Profiles
 - · Day time Operation (full staffing)
 - Limited operation (evenings ex. 17:00-24:00)
 - Nighttime operation (Duty)
 - Off hours (Outside service hours)
- Team + Service Profile = Event Routing
 - Who to show for (Noc and/or Operational team)
 - Action (notification)
 - Ticket automation



DEM

Application team/Service profiles





Result



Ever changing environments

 \Longrightarrow

✓ Fast adoption of new events sources by Event Classification

o Different demands from different consumers



✓ Granular rules to manage events and outcome

Changing operational model



✓ Datamodel let you make changes to logic without having to rewrite filters, reports and dashboards

Correct operational information



✓ Powerful classification and management of events and logic, fast to deploy custom dashboards





✓ Flexible model and easy to adopt to new needs

Different OLA/SLAs



✓ Granular model and meta data compatible

Less resources



✓ Do more, faster, no technical specialists necessary

Compose IT can support your journey

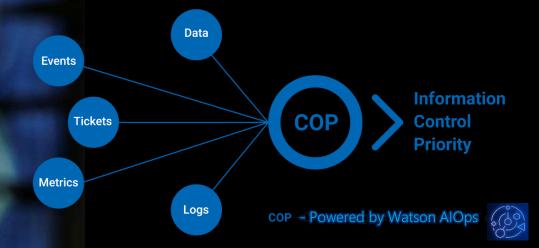


www.compose.se

Central Operation Platform

A 'turnkey ready' adaption of Watson AlOps and Elastic with more than 600.000 hours of experience built into both the tools and the way of working.

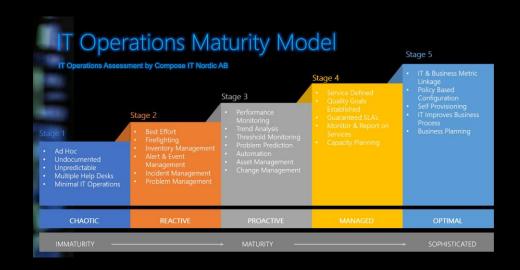
For new or existing users of Netcool/Watson AlOps



Where are you and what's your next step?

IT Operation Assessment Service, by Compose IT

- Identify where you should put your effort to take the next step to a mature IT operation environment.







Thank you, questions?