Nokia Assurance Center

The Nokia Assurance Center is a multi-vendor, multi-technology and multi-domain system that provides a unified Assurance platform across traditionally separate and disparate systems and domain silos. Leveraging Bell Labs AI and ML technology, the system is an ingredient in Nokia’s broader operations software portfolio to enable round-trip operations automation.

Network and Service Assurance systems have historically been built to support specific functionalities including Fault, Performance and Configuration management at either the network domain level or the service level. This was originally required to support requirements for high performance functionality across fundamentally different types of data such as alarms, faults, traffic performance, etc.

As we approach the 5G era and the requirements for more agility in all operational areas, the network and service assurance functions must become an integral component of a broader, closed-loop operational flow. This requires a new solution construct that combines all of the relevant data sources together for more comprehensive, more accurate and more timely assurance actions. This will have a visible impact in better network and service quality by significantly reducing the mean time to detect (MTTD) and mean time to repair (MTTR).
Features

- Designed for cloud native deployments based on micro-services architecture
- Multi-vendor and multi-technology mediation layer, including PM, CM, FM, telemetry and transactional data/vProbes
- Reporting & analytics to extract insightful multi-layer & multi-domain correlations, monitor real time PM KPIs and run forecasts
- Fault management capabilities for alarm monitoring and lifecycle management, correlation, surpression and fault positive detection
- Service assurance for end to end service monitoring in real time, impact analysis and fault root cause demarcation
- Zero-touch automation packs to enable preventive healing, restoration and automated trouble ticket management for both physical and virtual cloud layers
- Built-in Machine Learning algorithms across network and service enabling predictive incident detection
- Unified product for network and service automation in closed-loop

Benefits

- 30% of tickets are resolved in closed-loop
- 30% faster rollouts of new network technologies
- 60% reduced cost from existing siloed systems (e.g. FM, PM)
- 50% reduction in MTTD and MTTR
- 90% reduction in alarm management
- 85% reduction in improper field dispatches
- 97% of potential service impacts are known before affecting customers

Technical specifications

Software

- Reporting & analytics module
- Fault Management module
- Service Assurance module
- Automations module

Technology support

- 2G, 3G, 4G, 5G, SRAN, Tetra, Wi-Fi, Telco Cloud, Transport, PACO/EPC, IMS, SDM, Policy & Charging
- Multi-Vendor support:
  - Ericsson
  - Huawei
  - ZTE
  - Cisco
  - Juniper

About Nokia

We create the technology to connect the world. Powered by the research and innovation of Nokia Bell Labs, we serve communications service providers, governments, large enterprises and consumers, with the industry’s most complete, end-to-end portfolio of products, services and licensing.

From the enabling infrastructure for 5G and the Internet of Things, to emerging applications in digital health, we are shaping the future of technology to transform the human experience. networks.nokia.com

Nokia operates a policy of ongoing development and has made all reasonable efforts to ensure that the content of this document is adequate and free of material errors and omissions. Nokia assumes no responsibility for any inaccuracies in this document and reserves the right to change, modify, transfer, or otherwise revise this publication without notice.

Nokia is a registered trademark of Nokia Corporation. Other product and company names mentioned herein may be trademarks or trade names of their respective owners.

© 2019 Nokia
Nokia Oyj
Karaportti 3
FI-02610 Espoo, Finland
Tel: +358 (0) 10 44 88 000

Document code: SR1909037842EN (September) CID 206716