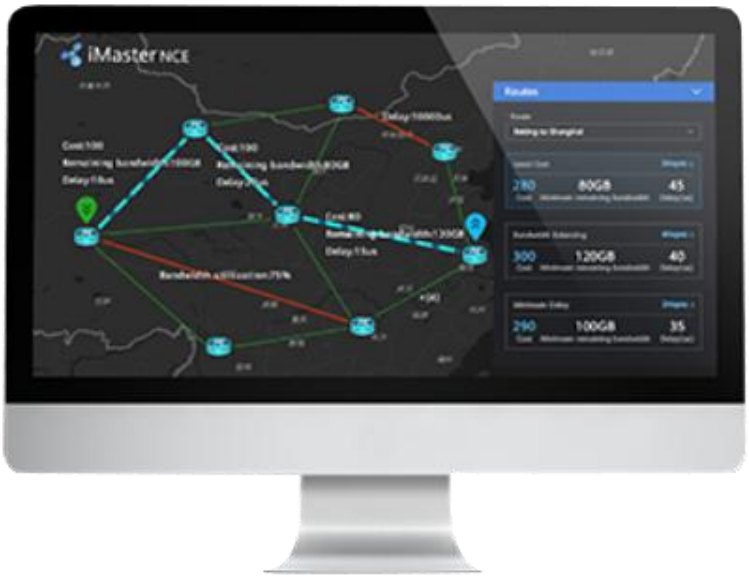
IMaster NCE-IP-G

Datasheet



Product Overview

The IMaster NCE-IP-G Network Digital Map Autonomous driving network management and control system is the industry's first network automation and intelligent platform integrating management, control, analysis and AI intelligence functions, realizing the effective connection of physical network and commercial intention, and realizing the centralized management, control and analysis of the global network. Enabling resource cloud, full life cycle network automation, and intelligent closed loop driven by data analysis for business and business intent; And up to provide open network apis for rapid integration with IT. Make the network simpler, smarter, open and secure, and accelerate the business transformation and innovation of enterprises.

Product Features

Network Digital Map

• Multi-dimensional visualization: second-level collection and processing capability of massive data, realizing real-time visualization from the physical layer to the routing service layer, and accurately analyzing network problems;

• One network one map: Support multiple vendors, a map can be seen on the whole network, and has a powerful topology display capability, support GIS map association, subnet-free scaling;

• One-click tuning: Built-in 20+ routing factors, such as bandwidth, delay, packet loss rate, andUCMP, sense network changes in real time and trigger routing recalculation to ensure service SLAs.

VPN Service Guarantee

• Based on IFIT streaming detection, service faults can be seen in real time, service paths can be tuned with one click, and tuning history can be viewed;

• Application Scenarios:

Quality difference occurs: Enables hop by hop diagnosis of VPN service flows, automatically identifies suspected fault causes, and sets the demarcation bit at the minute level;

Daily active operation and maintenance: Proactively manage TOP N quality lines through SLA multi-dimensional visibility, generate operation reports, support daily operations, and improve user experience.

Application Tuning

• Plan, manage, operate and tune the network based on application scheduling, and realize application-level fine management through holographic traffic perception, multidimensional traffic analysis, and one-click application acceleration;

• Periodic traffic portrait collection, analysis and future traffic prediction based on application characteristics;

• Identify VIP business to flow into the tunnel and slice, prioritize value business, and limit the speed of ordinary business with one key to effectively save costs.

Configuration Verification

• Based on the simulation platform, the original configuration and the changed configuration are used as inputs to simulate routing protocols and traffic, and the risk of change is assessed from multiple dimensions such as traffic path change, tunnel path change, and route burst, so that errors do not enter the network;

• Covering 90% of network protocols, 0 is incorrectly configured;

• Routing simulation results: routing black hole, routing loop, routing surge, routing drop; Traffic simulation results: traffic interruption, traffic packet loss, traffic surge, traffic drop.

Technical Specification

Items	Features
Network Digital Map Viewable	· Network basic management, stock management, alarm management, network element management network six layers of visibility, superposition GIS map, infinite scaling; · Collection of the whole network traffic quality data, big data intelligent analysis; · Navigational service path calculation, built-in 20+ factor free combination second level route calculation, online path preview, One-click deployment; · Multi-dimensional display of device and network status through overview, topology, map, report and other ways.
Automatic Service Deployment	· IP service provisioning, IP service 360 visual; · VPN service topology visibility, path and status visualization; · Link, tunnel, VPN connectivity detection; · Service resource pool management, service template management; · Service driven tunnel establishment, service on-demand BOD, tunnel provisioning, tunnel policy control.
Network Slicing	· Slice life cycle management; · Automatic slice deployment, on-use and on-cut, service driven slice Flexible Create; · Visual slice O&M, one-click capacity expansion, flexible bandwidth adjustment, and efficient fault diagnosis.
VPN Service Assurance	· IFIT on-stream detection technology can sense service quality in real time; · Quickly identify service quality, automatically trigger IFIT hop by hop detection, accurately restore service path demarcation, analyze the association between service SLAs and network KPIs, and help solve problems quickly by monitoring the overall service quality status based on the classification of the whole network, L2VPN and L3VPN to ensure the best service physical examination.
Network Tuning	· MPLS Network optimization; · MPLS tunnel global routing optimization and single service path optimization; · RSVP-TE/SR-TE/SR-MPLS Policy/SRv6 Policy; · Efficient and accurate routing based on constraints such as delay, bandwidth, and packet loss rate, manual or automatic routing optimization.
Application Tuning	· Application traffic profile; · Application path visibility; · Unknown applications, abnormal flow visibility; · Application tuning, one-click speed limiting; · Data redundancy reduction, revenue analysis.
Configuration Authentication	· Online high-precision configuration command simulation; · Routing and traffic simulation results are presented in real time.
NCE-IP-G Northbound Capability Open	· Service provisioning API, inventory management API, alarm management API, performance management API, network optimization API.
High Availability	· Cluster and remote Dr Deployment; · Support service data consistency.

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