

Kyview 2.0

Network Management System Software



Overview

Kyview 2.0 is the new generation network management system software. It can be used as EMS and NMS, can achieve general network management, can also be used as an integrated network management, docking multiple network management software and managing multiple networks. Achieve applicability to large-scale, medium-scale, and small-scale network scales. It can also be used as a layered structure according to the network to implement network element management, network management, integrated network management, reserve south-to-north interface capabilities, and reserve interfaces for multiple integrated network locations.

Using distributed data collection services, the scale of the management network can reach 5,000 to 20,000.

Adopting B / S architecture, more convenient system installation, maintenance and use. Where the network is reachable, it can quickly support a variety of IP and SNMP-based network equipment to facilitate system expansion.

Supports windows and Linux operating systems, the application environment is more diverse and the applicability is stronger.

Supports configurable functions, facilitating network topology, networking, and configuration through network management software, providing a more convenient and effective tool for network construction.

Key Features

New generation network management system, based on B/S architecture

Kyview 2.0 can manage up to 20000 network element devices, based on distributed network acquisition

Supports monitoring Kyland and third-party devices, including IP device and SNMP device

Graphical and friendly interface, hierarchical topological navigation structure, and comprehensive information of topology, alarm, network, and equipment, to provide clear management levels and rich management information for operation and maintenance managers

Supports topology monitoring function, various levels of alarm presentation forms, and professional alarm windows, which can be displayed and notified to the maintenance personnel in a variety of ways such as tables, graphics, sounds, colors, windows, etc., so that front-line operation and maintenance personnel can find abnormal information at the first time. And quickly locate and resume business quickly

Supports intelligent processing of alarm information, such as alarm filtering, redefinition, compression, etc., to improve management efficiency

Supports system performance data collection, including CPU usage, memory usage, port traffic, and optical power of optical ports, can predict trends and eliminate hidden dangers

Supports perfect management roles and permissions, and provides log and backup functions to improve system security and reliability

Supports batch configuration of common functions

Supports north-south interfaces for easy third-party integration

Product Specifications

>Feature Specifications

-Topology Management

Supports automatic topology and devices creation

Supports network topology and specified IP topology

Supports zoom in and out of the topology, auto layout and save, and export the topology

Supports device topology display and alarm correlation display of the topology interface

Supports automatically draw the connections between switch devices by LLDP

Supports manually creating application terminal devices and creating connections with switch

-Visual view

Supports to identify the master and blocking links of the ring On the topology view

Shows devices and ports related to different VLANs by VLAN view

Supports traffic view

-Device Management

Supports remote status monitoring: real-time detection of network device status and port traffic, support traffic statistics function, monitor DDM received light power, etc., and can set thresholds, provide graphical display interface

Supports view device panel diagram

Support viewing neighbor information, routing table information, IP table information, basic device information (IP, MAC, device name, serial number, hardware version number, software version number, CPU and memory utilization)

Supports view ring information (DRP, DT-Ring)

Supports viewing device power information (single power, dual power)

Supports export device information list (IP, MAC, device name, etc.)

-Alarm Management

Supports real-time alarm of monitoring, filtering, querying, confirmation

Differentiate the alarm information in different colors according to the alarm level

Supports alarm notification by page display, sound and other mechanisms

Supports querying real-time alarm and historical alarm, generating reports and exporting of the querying results

Provides SysLog service, receive SysLog events and display

Supports alarm experience maintenance

-Device Maintainance

Supports maintenance functions such as device configuration files, firmware management, and batch upgrades

Supports remote batch import or export of device configuration

Supports remote batch device firmware upgrade

Supports remote control parameter configuration of device(access device by Telnet / Web)

Supports device SNMP information settings

Supports server-side ping call

-Device batch configuration

Kyland device threshold settings (over-limit threshold of port traffic, CPU and memory, optical power threshold)

VLAN configuration

Ring module setting (DRP)

Alarm enable setting

Port module (management status, auto-negotiation, speed, duplex, flow control, automatic speed limit, etc.)

RSTP / STP configuration

MSTP configuration

POE configuration

VRRP configuration

-Third-party device

Supports IP devices and SNMP devices

Supports automatic discovery and topology for devices that support public LLDP

Supports viewing device system information, interface information, IP address, routing information, etc.;

Supports dynamic display of actual operating status of each port (ON / OFF)

Supports view the actual traffic statistics, packet loss rate statistics, etc. of each port

Supports device communication abnormal alarm, and report by Trap

Supports default generic device panels and custom dedicated device panels

Support input OID (including CPU, memory usage, power supply, ring network, etc.) node information display

-System Management

Supports monitoring of each server of the network management system

Supports start and stop of each collection server

Supports basic parameters configuration of southbound interface of SNMP

Supports manual backup or automatic backup of network management data

Supports recovery of network management data from files

Supports network management data automatic cleaning function

-Safety Management

Permission management includes role management, user management, operation permission management, and login only when the username and login password match

Supports network data rights distribution, including three roles: administrator, operator, and monitor. (The administrator can manage users. The operator has all operation rights. The monitor only monitors the network within the authority)

The same user cannot log in to two clients at the same time

Supports MAC binding, only authorized MAC terminals can log in

-Performance Management

Supports network-wide real-time performance and historical performance management

Supports real-time performance and historical performance data query and export

-Statistical Management

Supports device information statistics

Supports alarm statistics

Supports performance statistics

-Log Management

Support recording, querying and exporting of user operation logs and system operation logs

-Northbound Interface

Supports RESTFUL API

Supports providing topology data, alarm data, and performance data to third-party systems

-License Control

Control by the number of manageable network elements

>Performance Specifications

-Number of management network elements

≤20000

-Client Concurrency

≤100

-Alarm response time

≤5s

-Log file

Save 30 days of events

-Alarm data hold time

Save for one year

-Performance data retention time

Save for 30 days

>System Requirements

-Software configuration requirements

Operating system of windows : Windows 7/Windows 2008 Server/Windows 2012 Server, 64-bit supported

Operating system of Linux : CentOS7, 64-bit supported

-Database configuration requirements

MySQL5.5 and above database

-Minimum browser requirements

Recommend Google Chrome

>Recommended server configuration

-Operational configuration requirements

Processor:

Xeon E5-2620 clocked at 2.4 GHZ or better CPU

RAM:

Collection server 32GB;

Database server 64GB;

Network management server 32GB;

Big data server 32GB

Hard Disk:

Collection server 500GB or larger;

Database server 1TB or larger;

Network management server 1TB or larger;

Big data server 1TB or larger

Optical Drive:

DVD

Network Card:

1000M network card, at least 3

Note:

The number of servers is determined based on the network scale. If the network scale is small, they can be deployed on the same server.

For details, please contact Kyland department.

-Minimum configuration requirements (For demo)

Processor: I3 clocked at 1.8 GHZ

RAM: 4GB

Optical Drive: DVD

Hard Disk: 500GB

Network Card: 10 / 100M network card, at least 1

Note:

1. Suitable for network scale less than 50 network element nodes;
2. Network management service, database service, collection service, cache, message notification service, MongoDB performance data service are all deployed on one computer;
3. The minimum configuration can be used for software demonstration, and the official production use recommendation is higher than the above configuration.
4. For details, please contact Kyland department.

»» Mechanical Drawing

»» Ordering Information

Product Model	Kyview 2.0-XXX
Code definition	Code selection

XXX: number of network elements	000 = Trial version, supporting up to 512 network element devices 128= Support up to 128 network element devices 256 = Support up to 256 network element devices 512 = Support up to 512 network element devices 1024 = Support up to 1024 network element devices 5000 = Support up to 5000 network element devices 10000 = supports up to 10,000 network element devices 20000 = Supports up to 20,000 network element devices
---------------------------------	---

Version:2020-03-11 15:10:50