



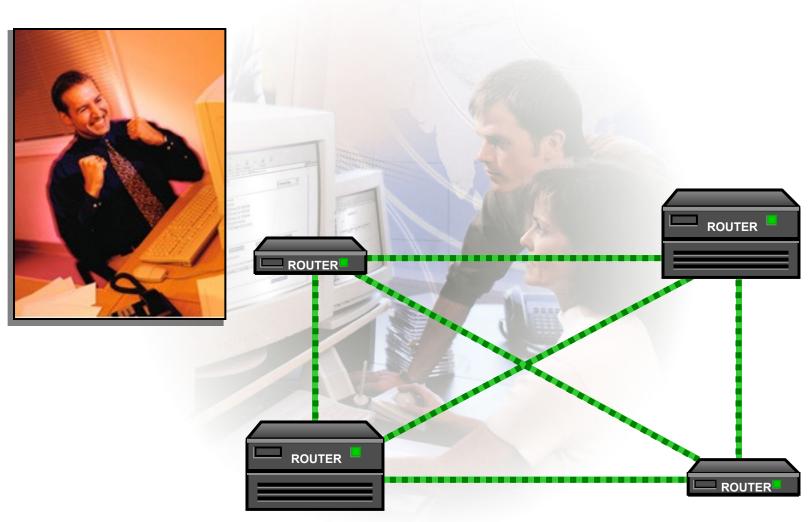
IP Network Configurator

Kenan Systems Communications Software Group



Establishing Your Network





Establishing Your Network





Challenges of IP Network Router Management

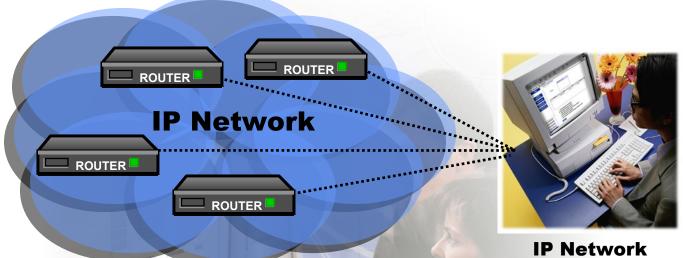


- Preventing network outages
- Adding routers and upgrading networks
 - Changing network topologies by changing and updating interfaces
- Achieving accuracy and reliability when enabling routing protocols
 - Ensuring dependencies on other elements are recognized
 - Checking routing protocol parameter consistency
- Enabling version management of network configuration parameters and recovering from mistakes
- Managing IP network configuration operations centrally

Overview of the IP Network Configurator (IPNC)



Configurator



- Works at the network level to...
 - automate protocol configuration of new routers by employing
 - existing routing topology and configuration
 - location of the new router
 - update protocol configuration of existing routers
 - aid IP network disaster recovery
 - enable centralized IP network administration
- Runs on Sun UltraSPARC® servers requiring:
 - 150 MB of RAM
 - 200 MB of disk capacity

Protocol Configuration

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Manual Configuration



Protocol Configuration



Automated Configuration with IPNC

<u>Tasks</u> <u>Processes</u>

Provision & Configure

- Administer/configure routing protocols:
 - Account for interfaces on new/existing routers
 - Test for protocol consistency
 - Update router startup sequence

Maintain

- Update routing protocol parameters
- Recover from errors



IP Network Configurator

IP Network Configuration with IPNC

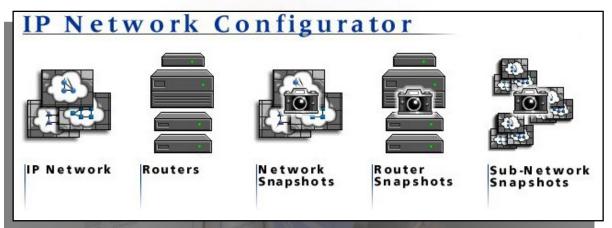




- Allows assignment of IP addresses to newly added router(s)
- Enables accurate, automated routing protocol configuration on all interfaces of:
 - Newly added router(s)
 - Existing neighboring routers
- Verifies routing protocol parameter consistency
- Retains routing protocol configurations for backup and recovery

IP Network Configurator Features





- Supports routers running the Open Shortest Path First (OSPF) routing protocol
- Interfaces to HP Openview's® auto-discovery mechanism
- Presents multiple views of an IP network
- Provides web-based, Java®-based GUI
- Enables policy-based configuration control

IPNC Benefits and Value Proposition



- Reduces data network outage problems due to improper configuration
- Streamlines routing protocol configuration process
- Works at the network level versus the router interface level
- Automates rollback to previous configurations
- Installs easily

Thank You

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