UURNIK
SYSTEMS
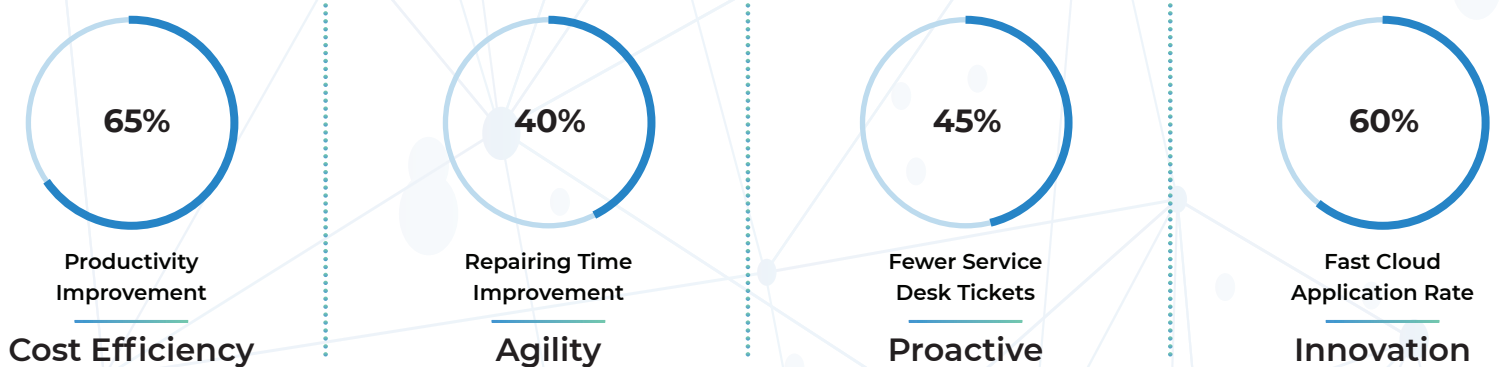Respond | Simplify | Evolve

Network Automation As-A-Service
Coherent, Efficacious, Smart using AI & Compliant

An industry-leading network automation & configuration practice that smoothens network operations

Why we use Artificial Intelligence in networks?

To improve user & app experience, speedup real-time troubleshooting & provide remediation

Practice smartness, agility, security and compliance across your physical, virtual & SDN infrastructure

65%	40%	45%	60%
Productivity Improvement	Repairing Time Improvement	Fewer Service Desk Tickets	Fast Cloud Application Rate
Cost Efficiency	**Agility**	**Proactive**	**Innovation**

Uurnik Automate

Uurnik Automate is an industry-leading network automation & configuration practice that smoothens network operations & helps to identify & address vulner-abilities across thousands of devices in the shortest period of time.

Networks – a fundamental platform of IT environments today but when it comes to their automation, it's almost **non-existent.** Proprietary **vendor-specific** tools, lack of **staff's acquaintance,** platform neutrality, etc. are few of several **challenges.** Our service **automates** manual & repetitive tasks, **optimizes** existing network services & even **enables usage** of new & innovative features in your **existing** platforms.

An altogether **fresh** approach to managing networks!

Generally, network automation is rolled out in a **project-based** & **time-bound** engagement model.

At Uurnik, we believe that **identifying repetitive** tasks, managing **application policies** & **vulnerability handling,** followed by their automation **isn't** usually **possible** in a **single** pass. **Repeated cycles** of the automation procedures & **changing** demands ask for **constant** support. Therefore, a **service-oriented** model suits better.

Based on our experience & research, we have distinguished which **tool fits best** for which particular needand in which environment/platform.

STATE / CONFIGURATION MANAGEMENT	AUTOMATION FRAMEWORK	SOURCE CODE CONTROL TOOLS	CONTINUOUS INTEGRATION	REVIEW
Puppet Chef Salt	Ansible	Git Subversion(SVN) RCS, CVC, SCCS	Jenkins GitLab CircleCI	Gerrit

SERVICE DESCRIPTION
What?

Network Automation

- **Repeatable** Tests — Topological & Diagnostic Nightly Test Runs
- **Zero Touch** Provisioning
- **Build** With Version Control
- **Configuration** Management
- **Large-scale** Firewall Deployments
- **Repeatable** Network Ops
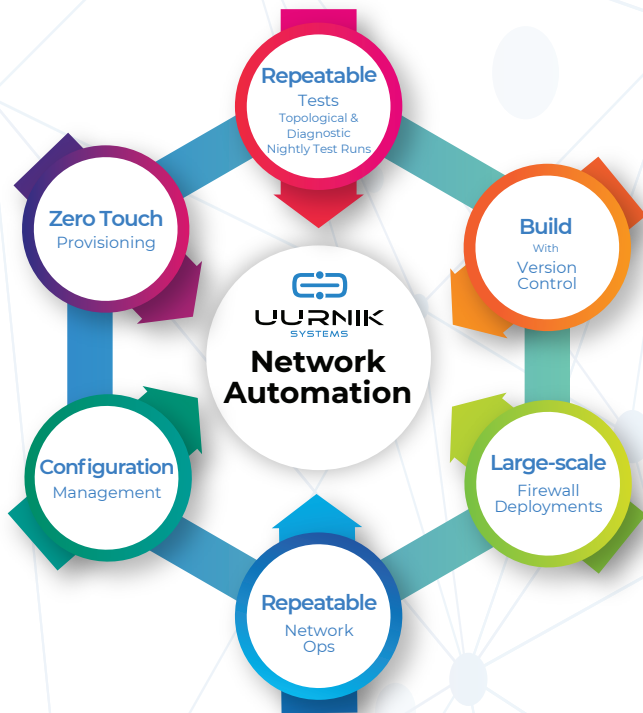
To start with: service **provisioning,** device provisioning, basic **access control** (e.g. ACLs), Layer-2/3 provisioning (VLANs, IP subnet, etc.) from a **central** repository, firewall rules

Once the ball starts rolling: pre-configuration, topology **discovery** & checks, software **upgrade**, configuration validation, consistency checks, troubleshooting, routing adjustments, failure **remediation,** security setup, documentation

What artificial Intelligence delivers?
- ⊙ Ease in **Discovering** configurable network features
- ⊙ Seamless User Experience While Deploying & Managing Network Policies
- ⊙ Identification & **Classification** of Devices
- ⊙ **Real-time** Network Mapping
- ⊙ Route Discovery, Advertisement & Policy Mapping
- ⊙ Ensure network consistency, upstream service **availability** & remediation of its failures

— Automated —

Deployment	Staging	Testing	Roll Back	Error Handling

UURNIK SYSTEMS
Respond | Simplify | Evolve

Use Cases

- Secure Routing
- High Availability
- Bandwidth Allocation
- Multicasting
- IP Address Assignment
- Configuration Management
- Time Synchronization
- Device Hardening
- Multi-Vendor Support

How?

- **Configuration templates & data models**
- **Collect, optimise & store configuration**
- V2 V3 V1 **Version control**
- **Status reporting**

Why?

- **Configuration consistency** — Central repository, simplified reports
- **Ease in management & maintenance** — Dashboards, threshold driven alerts
- **Migration time reduced**
- **Graphing** — Topology generation
- **Mass-connectivity** — Complex roll-outs
- **Less iterations of reviews** — Review templates only

Why Uurnik Systems?

At Uurnik, we firmly believe in constant evolution. We will continually communicate with and learn from our customers in order to continuously improve our services and products. Thus, keeping ourselves on top of today's and tomorrow's technology, no matter how fast it moves, ensuring our customers always have the best tools and services available to them.
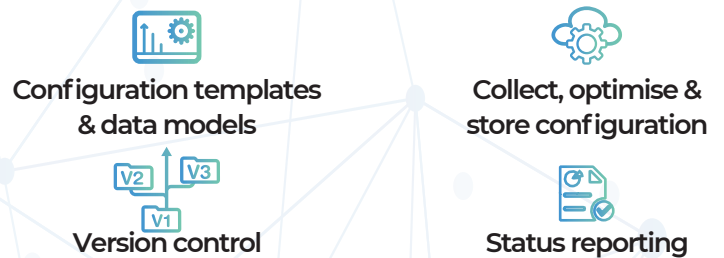
About Uurnik Systems

Uurnik Systems adopts an unprecedented approach in offering its customers a rich array of professional, managed & operational services to allow them to focus on their mainstream business.
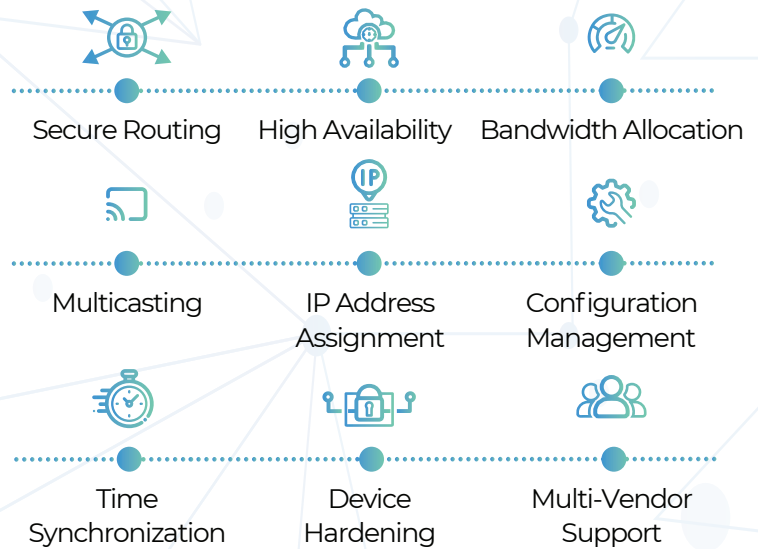
To learn more about Uurnik Automate

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