



Smartlink Solutions Pvt. Ltd.

Committed to a Secure, IPv6-Ready Internet

Multiple Class B ISP, India · IRINN Member since 06 October 2015

Who We Are — Smartlink Solutions Pvt. Ltd.

Multiple Class B ISP

Licensed under the Government of India, serving enterprises, institutions, and communities across the country.

IRINN Member Since 06 October 2015

A decade of commitment to India's internet infrastructure — actively participating in the growth of a secure, scalable internet.

IPv6 & Routing Security Pioneers

Proud participants in India's journey from IPv4 scarcity to an IPv6-enabled future, committed to open standards and safer routing.

A Decade of Direct, Sovereign Network Infrastructure

Member Since 06 October 2015

Smartlink has directly held and managed its own internet number resources for nearly a decade — one of India's committed, long-standing Class A ISPs operating with full transparency.

IP Resource Access

Smartlink holds direct access to **IPv4 and IPv6 address allocations** and **Autonomous System Numbers (ASNs)** — the foundational building blocks of our network infrastructure.

Policy & Governance Alignment

Smartlink operates in alignment with **APNIC policies** and global internet governance standards, ensuring our routing practices meet international benchmarks.

What This Means for Our Clients

Holding our own internet number resources is not just a credential — it is a commitment to operating with full legitimacy, transparency, and scale within India's internet infrastructure.

- Guaranteed access to **sovereign IP address space** for enterprise and institutional clients
- Participation in **India's internet community** — contributing to policy discussions and routing security initiatives
- Ability to offer **native IPv6 connectivity**, future-proofing client networks as IPv4 resources become scarce

📄 A decade of direct resource stewardship reflects Smartlink's deep-rooted commitment to India's internet ecosystem — not just as a provider, but as a responsible participant.

What a Decade of Resource Ownership Has Built



IP Address Blocks Secured

We have secured direct allocations of IPv4 and IPv6 address blocks — giving our network the sovereign IP space it needs to scale reliably and serve our clients without dependency on third parties.



Full Policy Compliance Achieved

Our operations are fully aligned with APNIC-backed policies, ensuring that our routing practices, resource usage, and IP management meet international standards — a credential our enterprise clients depend on.



Active Community Participation

We actively participate in Open Policy Meetings (OPMs) and technical forums, giving our team a direct voice in shaping India's internet governance and keeping us connected to the global internet community.



Capacity Built Within Our Teams

Our technical teams have benefited from NIXI Academy training programs, webinars, and workshops — continuously upgrading our skills in IP management, routing security, and network engineering.

Smartlink's IPv6 Skill-Building & Deployment Programs

NIXI Academy

Our engineers are trained through **training.nixi.in** — building in-house expertise in IPv6 fundamentals, security, and deployment best practices.

NIXI IPv6 Index

We actively track our IPv6 adoption progress via the real-time dashboard at **ipv6.nixi.in** — keeping our rollout transparent and data-driven.

IPv6 Expert Panel

Our team engages with the community of certified IPv6 experts — gaining hands-on guidance to accelerate our enterprise-wide deployment journey.

IPv6 Now

We qualified for the IPv6 Now program — receiving our **/32 allocation instantly**, with no additional forms or incremental fees.

Smartlink's Team — Trained & Ready

IPv6 Configuration & Implementation

Our engineers attended APNIC-certified labs on dual-stack deployment and transition mechanisms — applying these skills directly to our IPv6 rollout across customer networks.

BGP Routing & Troubleshooting

We participated in hands-on BGP sessions covering session establishment and best practices — our team now uses this expertise to maintain stable, optimized routing for all Smartlink clients.

IPv6 Security

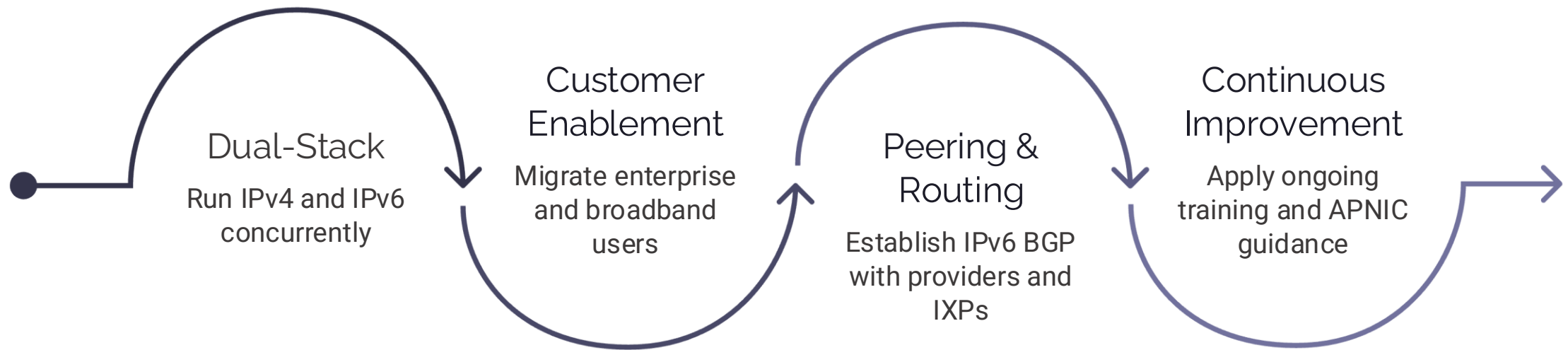
Our security engineers trained on IPv6 threat landscapes and mitigation strategies — equipping us to proactively defend our infrastructure and customer environments.

DNS Security

Our team joined a DNSSEC webinar — part of a cohort of **350+ participants** — and has since integrated DNS threat mitigation practices into our standard operations.



Smartlink's IPv4 → IPv6 Transition Journey



Smartlink's transition is built on continuous internal training, APNIC guidance, and a phased approach that keeps services uninterrupted for our customers throughout every stage.

What is RPKI & ROA? The Foundation of Routing Security

Understanding the Security Stack

BGP, the protocol that routes internet traffic, was not designed with security in mind. RPKI, ROA, and ROV form the cryptographic defense layer that the modern internet requires.

- **RPKI** (Resource Public Key Infrastructure) — a cryptographic framework that proves who legitimately owns an IP prefix
- **ROA** (Route Origin Authorization) — a signed certificate stating which ASN is authorized to announce a specific prefix
- **ROV** (Route Origin Validation) — filtering BGP routes that are RPKI-invalid, actively preventing route hijacks

India's valid ROA coverage has reached **88.04% for IPv4** and **97.91% for IPv6** as of July 2026 — a testament to the community's momentum.

BGP

Base routing protocol — no built-in security

RPKI

Cryptographic proof of prefix ownership

ROA

Signed record authorizing a specific ASN

ROV

Active filtering — invalid routes rejected

Smartlink's Commitment: ROA/RPKI & ROV



ROA Signed

All Smartlink IP prefixes are covered by valid Route Origin Authorizations — our routes are **cryptographically verified** and publicly attested.



RPKI Implemented

Hosted RPKI **infrastructure** ensures our address space is protected from unauthorized announcements by any malicious actor.



ROV Committed

We are actively working to filter **RPKI-invalid routes** — protecting our customers and the broader internet community from BGP hijacks and route leaks.

Why This Matters — A Safer Internet for Our Community



The Stakes Are Real

BGP Hijacking can silently redirect internet traffic, enabling eavesdropping, fraud, and widespread service disruption — affecting millions of users with a single misconfiguration or malicious announcement.

RPKI + ROV is the **industry-proven defense**. Every ISP that implements ROV makes the entire internet measurably safer. Security on the internet is a collective responsibility.

As a Class A ISP, Smartlink's commitment to routing security directly protects **thousands of end users, enterprises, and institutions** on our network — and contributes to the global routing ecosystem.

📄 We call on fellow ISPs across India to join us in deploying ROV for a more resilient internet.

Together, Let's Build India's Future-Ready Internet



✓ Deploy IPv6

Use the "**IPv6 Now**" program — no forms, no extra fees for existing affiliates. Your /32 is waiting.



✓ Sign Your ROAs

Protect your prefixes via **APNIC-hosted RPKI** today. Cryptographic route verification is a must.



✓ Enable ROV

Filter RPKI-invalid routes and **be part of the solution** — every ISP that ROVs makes the internet safer.



✓ Join NIXI Academy

Free training at **training.nixi.in** for your technical teams — invest in your people, invest in the internet.



Thank You

Let's build a safer, IPv6-ready internet — together.

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