



NART-IP ADDRESS MANAGEMENT (IPAM)

No IP Left Behind.

Product Overview

With 5G, IoT, and massive fiber rollouts, the volume of connected endpoints is exploding. Relying on legacy spreadsheets or fragmented tools for IP management guarantees IP conflicts, security non-compliance, and catastrophic provisioning delays for critical enterprise services.

NART-IPAM is a containerized, horizontally scalable, and fully API-driven platform that brings structure to your IP domain. Supporting both IPv4 and IPv6 natively, it automates allocations with pre-built, production-tested workflows designed for telco operations.

Secures and speeds up IP allocation, eliminates human-induced conflicts, and enforces regional/global regulatory compliance like RIPE.

Key Features

Unified IP & VLAN Management

Centrally manage subnets, VRFs, VLANs, and address pools through a single interface

Smart IP Allocation & Compliance

Prevent conflicts and ensure adherence to regional and global IP standards (RIPE, ARIN)

Dual-Stack IPv4/IPv6 Support

Compatible with all major network vendors by default

Role-Based Access Control (RBAC)

Granular access rights per subnet, region, or organizational unit

Full API Extensibility

Open REST/SOAP APIs for integration with provisioning, orchestration, and assurance systems

Advanced VLAN & Subnet Visualization

Clear network hierarchies for capacity planning and troubleshooting

Recommended Plug-ins

NART-IP Address Management can be extended with the following plug-ins to deliver deeper intelligence, faster resolution, and greater automation.



NART-E2E Network Topology Plug-in



NART-Dynamic Reporting Plug-in



NART-Impact Analysis Plug-in



NART-Observability and Monitoring Plug-in



with
NART-ADR

Full-Spectrum ADR-IPAM Intelligence

Previously used together in the customer system, these tools now form a unified OSS layer, combining inventory reconciliation with IP intelligence to eliminate overlaps, reclaim idle IPs, and ensure subnet hygiene.

Key Synergies:

- Cross-validation of IP allocations vs. actual network state
- Detection of blacklisted, duplicated, or unutilized IPs
- Integrated inventory + IP planning dashboards
- Smarter provisioning & faster incident resolution
- Improved audit readiness & SLA compliance
- Replaced a major competitor's tool and revealed 9% of the customer's inventory was missing



Technarts develops next-generation OSS solutions that automate, monitor, and optimize telecom networks. Since 2007, we have helped service providers achieve scalable operations and seamless multi-vendor integration through TM Forum-aligned modular platforms.



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TechNarts is a leading OSS provider with deep expertise in telecom software since 2007. We deliver modular, future-proof solutions for **Resource Management, Network Assurance and Network Fulfillment & Orchestration**. Our systems align with **TM Forum's ODA and Open APIs**, helping operators boost service reliability, optimize resources, and accelerate digital transformation.

References



OSS Vision & Value Proposition

As telecom networks grow more complex with 5G, IoT, and AI, traditional OSS environments struggle to keep pace. TechNarts transforms OSS into a **unified, intelligent, and automated** ecosystem that enables real-time visibility, operational agility, and zero-touch automation.

We deliver OSS platforms that are:



Automated
Enabling closed-loop, zero-touch operations



Intelligent
Leveraging AI/ML for predictive insights and optimization



Agile
Scalable across hybrid, dynamic networks

Our value is anchored on:



Multi-Vendor Network Integration



End-to-End Visibility



Modular Architecture



TM Forum Compliant Interoperability



Secure On-Premise Deployment



Data Sovereignty & Regulatory Alignment



Closed-loop Network Assurance



Scalable 5G & Hybrid Infrastructure Support

Aligned with TM Forum's ODA and Open APIs, TechNarts empowers CSPs to evolve from reactive to autonomous operations; boosting efficiency, resilience, and customer satisfaction.

