

# Globberry's NAT Logging Solution

Simplified, reliable, and high-performance logging for large-scale carrier environments.

## Overview

Network Address Translation (NAT) logging has become an essential requirement for operators, both for regulatory compliance and for effective troubleshooting in large IP environments with high load. Traditional logging systems, however, struggle with performance bottlenecks, data overload, and slow query times.

Globberry's NAT Logging Solution delivers a fast, scalable, and efficient way to collect, store, and analyze NAT session data in real time. Designed for telecom operators, ISPs, and enterprise networks, it provides a unified interface for log collection, search, and retention without the complexity or cost of heavy third-party systems.

Built on open, high-performance technologies and refined through real-world deployments, Globberry's NAT Logging Solution ensures reliable operation, quick traceability, and seamless integration with your existing OSS/BSS landscape.

## Key Benefits

### Performance and Scale

Handles tens of millions of session logs daily with optimized storage and search indexing.

### Regulatory Compliance

Fully meets data retention and lawful interception requirements.

### Fast Search and Traceability

Query by subscriber IP, NAT address, or port with sub-second response times.

### Open Architecture

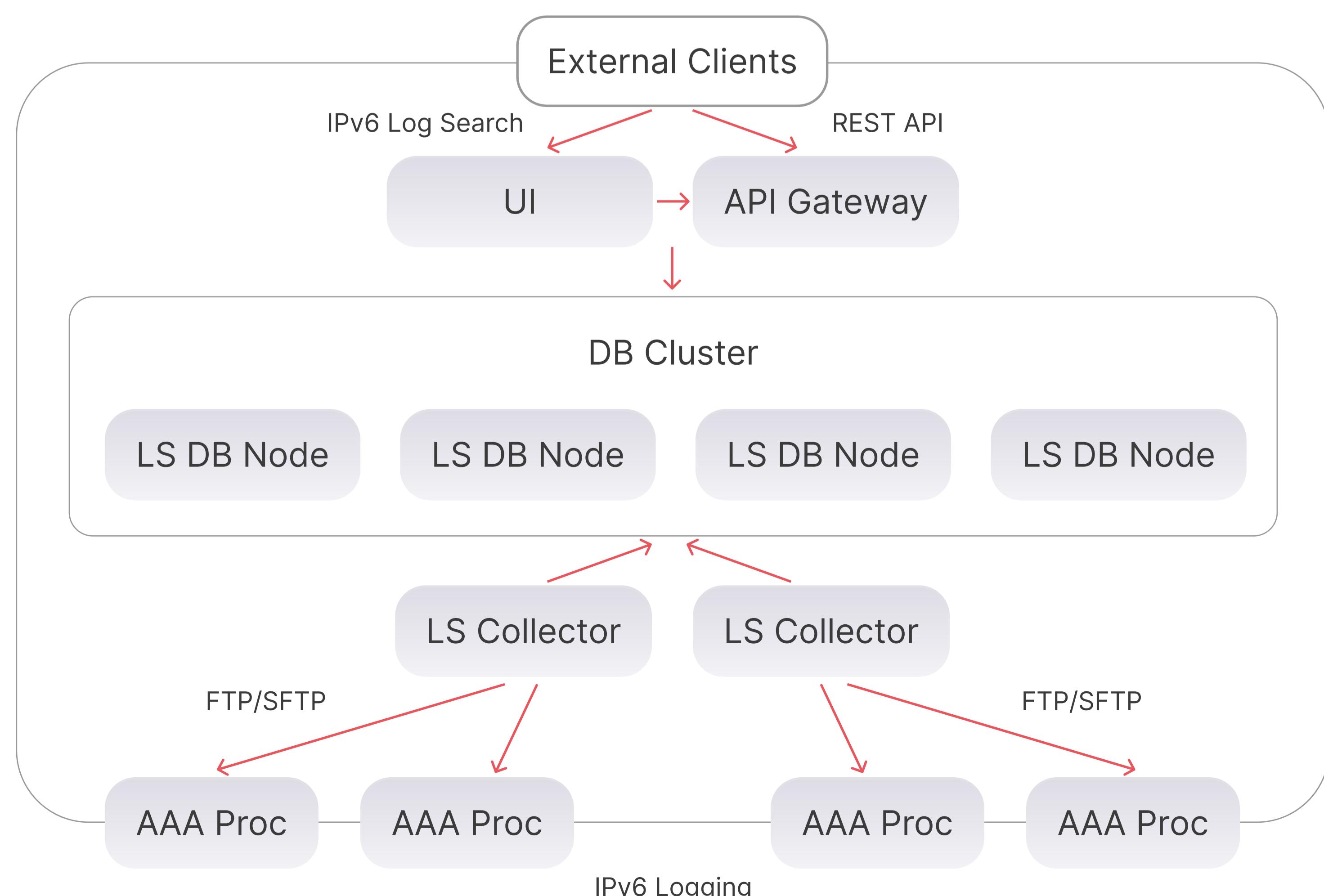
Based on open-source technologies, ensuring flexibility, transparency, and independence from vendor lock-in.

### Compact and Efficient Storage

Built-in compression algorithms and retention policies ensure efficient disk utilization.

### Seamless Integration

Native API interfaces for integration with OSS/BSS, mediation, and monitoring systems.



## Solution Architecture

Globberry's NAT Logging Solution is built around a modular and distributed design, ensuring resilience and scalability across environments.

# Core Components

01

## Log Collector

Receives NAT session data from routers and firewalls in near real time. Supports multiple data formats and protocols, including syslog, IPFIX, and custom APIs.

02

## Storage Cluster

Stores and indexes log data for efficient retrieval and long-term retention. Optimized for high-volume write operations with built-in redundancy.

03

## Search Engine

Provides fast and flexible search capabilities. Operators can trace subscriber activity by source IP, translated IP, or port, retrieving results in seconds even from massive datasets.

04

## Management Interface

A web-based GUI for configuration, monitoring, and audit reporting. Includes role-based access and customizable dashboards.

05

## Integration Layer

RESTful APIs and connectors for OSS/BSS systems, enabling automated log queries and real-time data sharing with external platforms.



## Functional Highlights

- Real-time log ingestion and storage
- High-speed search by multiple parameters
- Configurable retention and archival policies
- Multi-vendor compatibility (Cisco, Juniper, Huawei, Mikrotik, etc.)
- Horizontal scalability for large carrier environments
- Secure access with role-based permissions and encrypted transport
- Built-in alerting and health monitoring



# Deployment Options

## Centralized

- Single, high-capacity instance for nationwide or large-scale operators.

## Distributed

- Regional nodes for edge data collection and local processing.

## Hybrid

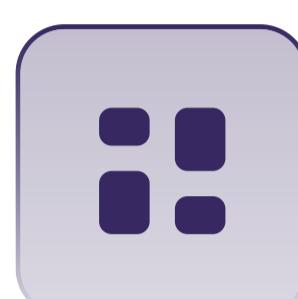
- Centralized search with distributed collectors for optimized performance.

# Professional Services



## Consulting

Evaluation of existing NAT and logging environments, with recommendations for optimization and integration.



## Implementation

End-to-end deployment — from solution design to data migration and acceptance testing.



## Support

Comprehensive 24/7 operational and technical support, including updates and monitoring assistance.

# About Globberry

Founded in 2014, Globberry delivers carrier-grade telecom solutions recognized by industry leaders such as Red Hat, Ericsson, and NEC. Our products power networks for Vodafone, Veon, Kyivstar, and Telus. We specialize in OSS/BSS, network inventory, and private network management designed for modern telecom and enterprise infrastructure.



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# Ready to improve NAT traceability and compliance?

Reach out to learn how our NAT Logging Solution can fit into your network environment.