



Net Insight Introduces Programmable Trust Boundaries for Predictable Live Media

Net Insight introduces programmable Trust Boundaries that make live media interconnection predictable as traffic moves between facilities, networks and cloud environments, connecting operational domains without sacrificing control. Integrated into the Open Media Platform and powered by Nimbra Live Intelligence, Trust Boundaries enable automated and controlled IP domain interconnection for large-scale live production, representing the next evolution beyond traditional media gateways.

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As live production becomes increasingly distributed, media traffic must move seamlessly across operational domains. While IP networks provide flexibility, they lack inherent limitations, making predictable live operation difficult at scale. Trust Boundaries introduce controlled IP demarcation points that transform interconnection from manual network configuration into programmable and deterministic infrastructure.

“IP networks were designed for flexibility, not predictability,” says Damien Nagle, Product Manager at Net Insight. “The real challenge in modern media workflows is controlling live media traffic as it moves between operational domains. Trust Boundaries introduce the controlled limitations that make large-scale IP production predictable and automatable.”

Using standards-based open APIs for system integration and orchestration, Trust Boundaries enable automated service provisioning and dynamic control of media endpoints while maintaining deterministic low-latency performance. Services can be deployed using consistent service definitions, ensuring predictable behavior across networks and endpoints. When operated through Nimbra Live Intelligence, Trust Boundaries provide centralized visibility and automation across distributed production environments.

As a native part of the Open Media Platform, Trust Boundaries combine transport, security demarcation and media adaptation into a unified system optimized for real-time media. This enables true IP interconnection between facilities and partner networks without the complexity and scaling limitations of traditional media gateways, enabling a transition toward native IP interconnection at scale.

Instead of deploying gateways that convert IP media back to SDI for security and interoperability, organizations can now interconnect directly over IP while maintaining predictable control at domain boundaries. Trust Boundaries also enable secure multi-organization interconnection hubs where broadcasters, affiliates and partners can connect directly to shared infrastructure while remaining fully separated and controlled.

Trust Boundaries support all IP-based media formats, including uncompressed and JPEG XS flows, with deterministic performance and up to 800 Gbps capacity per rack unit, enabling high-density interconnection for large-scale IP facilities.

Key capabilities

- Programmable Trust Boundaries with open APIs
- Integration with Open Media Platform
- Centralized control via Nimbra Live Intelligence
- Automated IP domain interconnection
- Domain translation between IP environments
- Support for uncompressed and JPEG XS
- Deterministic low-latency performance
- Per-flow protection (SMPTE ST 2022-7)
- NMOS-controlled media flows for standards-based orchestration
- Strict bandwidth policing per flow and per aggregate to guarantee QoS
- Up to 800 Gbps capacity per rack unit

Net Insight will showcase Programmable Trust Boundaries and [Nimbra Live Intelligence](#) at NAB Show 2026. [Please book a meeting here and visit Net Insight's booth W1653](#) on April 19–22, 2026.

Image Attachments

[Programmable Trust Boundaries](#)

Attachments

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