Intent Based Networking

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Intent-based Networking

- **Translation**: Capture business intent, translate to policies, and check integrity.
- **Activation**: Orchestrated policies & configure systems.
- **Assurance**: Continuous verification, insights & visibility, and corrective actions.

**Physical and Virtual Infrastructure**
Application Centric Infrastructure
Express Infrastructure for Developers - Absorb Complexity

Developers

IT
Don’t talk to Strangers
Intent-based Networking

Intent-based Networking Industry Initiative

**Translation**
- Capture business intent, translate to policies, and check integrity

**Activation**
- Orchestrate policies & configure systems

**Assurance**
- Continuous verification, insights & visibility, and corrective actions

**Physical and Virtual Infrastructure**
Intent Assurance

The guarantee that the infrastructure is doing what you intended it to do

Intent Encompasses Data Center Operations
Configs, Changes, Routing, VMs, Security, … Compliance, Audits

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Cisco Network Assurance Engine: How It Works

**Data Collection**
Captures all non-packet data: intent, policy, state across data center network

**Comprehensive Network Modeling**
Mathematically accurate models spanning underlay, overlay and virtualization layers

**Intelligent Analysis**
5000+ domain knowledge-based error scenarios built-in, codified remediation steps
Intent-based Networking

Capture business intent, translate to policies, and check integrity

Orchestrate policies & configure systems

Continuous verification, insights & visibility, and corrective actions

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