



## Cisco CNS NetFlow Collection Engine Version 5.0

**Cisco® CNS consists of software and appliance-based applications, which support scalable network deployment, configuration, service assurance monitoring, and on-demand service delivery. Cisco CNS technology is tightly coupled with the network elements through embedded device intelligence. CNS reduces capital expenditures (CapEx) by consolidating management functions into Cisco devices, reduces operational expenditures (OpEx) through automation of manual procedures, and increases revenue opportunities through new services and business models.**

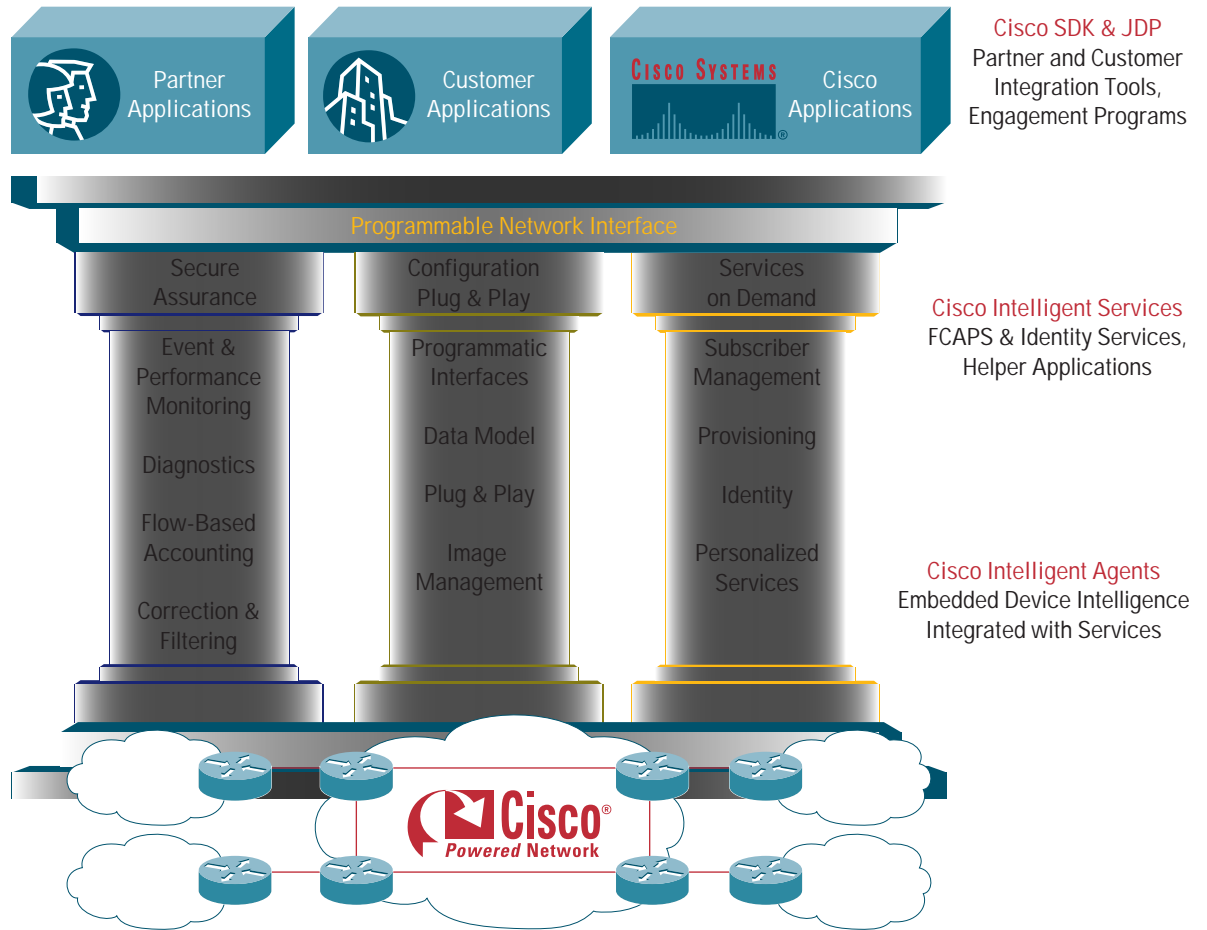
### Product Summary

Cisco CNS NetFlow Collection Engine (NFC) technology efficiently provides network management infrastructure metering for a crucial set of applications. Examples include network traffic accounting, usage-based network billing, network capacity analysis and planning, network quality of service (QoS) and service-level agreement (SLA) performance monitoring, market usage statistics, and irregular usage and denial of service (DoS) detection capabilities for both service provider and enterprise customers. Cisco CNS NFC delivers fast, scalable, and economical data collection from multiple devices exporting

NFC data records. The engine then performs data volume reduction and post-processing, and provides end-user applications with easy access to filtered, aggregated NFC data. Cisco CNS NFC integrates into the Cisco CNS product family of components, including Cisco CNS Performance Engine for VPN traffic reporting and correlation. Cisco is currently working with several partners to provide customers with comprehensive solutions for Cisco CNS NetFlow-based billing, planning, and monitoring (see figure 1).



**Figure 1**  
Programmable Network Architecture



### Meeting Business Challenges

Enterprise and service provider customers are facing the challenge of controlling their CapEx and OpEx. In addition, they must overcome WAN bandwidth congestion, delivering timely service information to customers within high-quality performance SLAs—and must do this efficiently from a deployment strategy perspective. Cisco CNS NFC is an integral part of the programmable network layer, under the accounting category of the fault, configuration, accounting, performance, and security (FCAPS) model; it provides a metering technology for applications such as:

- Network traffic accounting
- Usage-based network billing
- Network capacity analysis and planning
- Network QoS
- SLA performance monitoring



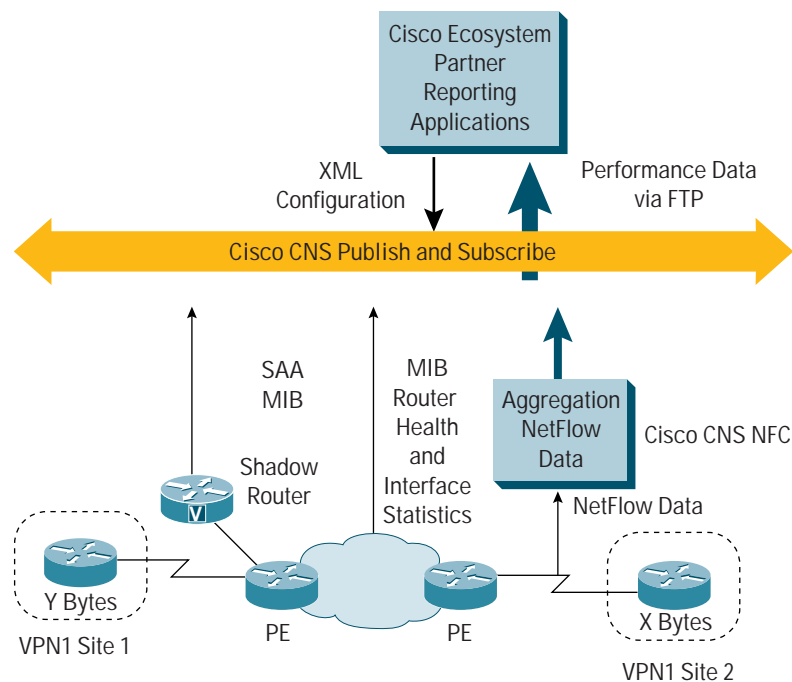
- Market usage statistics
- Irregular usage and DoS detection capabilities for both service provider and enterprise customers

Cisco CNS NFC Version 5.0 includes:

- A unique set of capabilities for aggregating, monitoring, and reporting performance on IP and Multiprotocol Label Switching (MPLS)/VPN networks for specific Cisco network devices
- For MPLS networks:
  - Maps Differentiated Services Code Point (DSCP) and EXP bits for QoS reporting onto the NFC data to allow visibility of mission-critical and bandwidth-intensive applications by reporting on traffic classification, prioritization, and congestion.
  - Provides an optional second-tier module for reporting provider edge to provider edge (PE-PE) traffic volumes
- Enabling incumbent local exchange carriers (ILECs) with FCC 271 dispensation to build cross-LATA networks with Inter-AS traffic visibility to identify peering points and aid peering contract negotiations
- An embedded Web-based GUI interface that provides a more flexible low-end reporting tool, replacing the Network Data Analyzer (NDA)
- Flexible software and appliance packaging options to support distributed deployment topologies
- Improved APIs for integration with customer and partner applications

Figure 2 shows a two-tier deployment option using the optional MPLS PE-PE traffic matrix module. This module aggregates NetFlow data from multiple NFCs into a single feed of traffic flows provided on a per-PE-PE basis for analyzing MPLS core network traffic.

**Figure 2**  
NFC Data Aggregation





## System Requirements

**Table 1** Cisco CNS NFC Version 5.0 operates with the following platforms:

Cisco CNS NFC Release Version	Supported Cisco Network Elements	Minimum System Requirements	HP-UX	Solaris
Cisco CNS NFC Version 5.0	<ol style="list-style-type: none"><li>1. Cisco routers</li><li>2. Cisco Catalyst® 5000 Series switches equipped with a NetFlow feature card (NFFC)</li><li>3. Cisco Catalyst 6000 Series switches</li></ol>	At least 1 GB of RAM; 36 GB of disk space	HP-UX Version 11	Solaris Version 2.9

**Note:** Cisco CNS NFC Version 5.0 does not support Cisco NDA Version 3.6. Customers must upgrade to Cisco CNS NFC Version 5.0 for reporting capabilities using the Web-based interface. The Web-based interface is a new feature and it provides similar but more flexible reports than NDA Version 3.6.

### Integration with Cisco Info Center and Cisco Partners

Cisco CNS NFC Version 5.0 integrates with Cisco Info Center and with several Cisco ecosystem partner products. For more information, visit:

[http://www.cisco.com/web/partners/pr46/partners\\_pgm\\_category\\_page.html](http://www.cisco.com/web/partners/pr46/partners_pgm_category_page.html)

### Additional Information

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<http://www.cisco.com/en/US/ordering/>

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