

Professional Services

Performance engineering to manage the full lifecycle of networks and applications

OPNET Technologies, Inc. (OPNET) provides a broad range of professional services to manage the lifecycle of networks and applications from requirements definition and design, through development, deployment, and operations. OPNET's Professional Services team uses its expert knowledge of OPNET solutions and best practice methodologies in performance engineering to manage, analyze, troubleshoot, and optimize enterprise applications, networks, and systems before and after operational deployment. OPNET's specialized professional services and capabilities include:

Application Performance Management

Today's IT environments consist of large network infrastructures, multi-tier applications, complex routing configurations, and heterogeneous network-based services. OPNET offers professional services based on proven enabling technologies and best practice methodologies to ensure that applications (including Service Oriented Architectures) meet service level objectives before and after operational deployment. Application Performance Management services include:

- **Managed Services**—complete outsourcing of solution and staff for application performance monitoring
- **On-Site Staff Augmentation Services**—full time, on-site engineers for daily analysis, troubleshooting, and application performance management
- **Application Network Readiness (ANR) Service**—pre and post deployment analysis and root-cause troubleshooting of applications
- **ANR Methodology Development Service**—custom methodology development for pre-deployment testing of applications to ensure that end-to-end response time objectives can be achieved before operational deployment
- **STAR 24 Service**—Special Team for Application Responsiveness: rapid response (within 24 hours) analysis and root-cause troubleshooting of production applications with guaranteed results
- **Solution Implementation Services**—implementation, integration, and configuration of OPNET Application Performance Management solutions in customer environments

Network Planning, Engineering, and Operations

OPNET offers professional services for capacity planning, performance optimization, and configuration auditing to ensure network integrity, security, and policy compliance. OPNET uses its best practice methodologies to model the behavior of complex Layer 2/3 networks, including routers, switches, protocols, servers, and the individual applications they support. OPNET engineers can effectively plan the deployment of new services and technologies; audit network device configurations; tune server performance; properly size capacity to support projected traffic growth; achieve service level compliance through QoS and traffic engineering; and ensure network survivability and security. Network Planning, Engineering, and Operations services include:

- **Managed Services**—complete outsourcing of solution and staff to ensure network health, performance, and integrity
- **On-Site Staff Augmentation Services**—full time, on-site engineers for daily analysis, troubleshooting, and network performance management
- **Capacity Planning and Performance Optimization Service**—network capacity planning and performance optimization, including network configuration auditing, security and survivability analysis, and network readiness assessments for VoIP and IPv6
- **Solution Implementation Services**—implementation, integration, and configuration of OPNET Network Planning, Engineering, and Operations solutions in customer environments





Network R&D

OPNET engineers are available to support R&D planning for complex networks that leverage the latest technologies and protocols. Our staff has an in-depth understanding of networking technologies (e.g., IP, Optical, Satellite, and Wireless), protocols (e.g., HAIPE, IPv6, MANET, MPLS, QoS, VoIP, WiMAX, WLAN, etc.), and optimization techniques based on best practice methodologies in modeling and simulation. This knowledge—combined with enabling technologies such as analytical, hybrid, and discrete event simulation, system-in-the-loop, 3D visualization, and a comprehensive model library of devices, applications, and protocols—allows OPNET to rapidly model and analyze sophisticated networks to optimize performance and lower lifecycle costs.

Classified Government Services

OPNET engineers possess the full spectrum of government security clearances. Additionally, OPNET's accredited Top Secret SCIF located in Bethesda, MD is available to perform classified work for the Government.

Custom Solutions

OPNET offers professional services to enhance, modify, and customize OPNET commercial-off-the-shelf (COTS) software to meet specialized requirements. Example customization projects include:

- Custom network planning solutions with innovative architectures and workflows
- Network common operating picture (nCompass™) solutions with unique dashboard views, reports, and alarm conditions
- Custom device and protocol models not currently supported in the OPNET standard model library
- Unique data collection adapters for OPNET VNE Server
- Custom policy compliance rules and reports for IT Sentinel and SP Sentinel
- Custom API and co-simulation interface programming
- Unique system-in-the-loop architectures for testing new devices and protocols

For more information and a price quote, please contact:

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