POLLERE, INC.

network architecture,
performance, analysis

Capabilities Statement

Company Overview

Pollere specializes in solving tough network architecture and performance problems through design, research, laboratory work, simulation and analysis.

- Founded 2004
- Based in Montara, CA
- Provide Subject Matter Experts and Functional Experts in Data Networking
- Consultants in CA, CO, MA, & VA
- CAGE: 4K8Z5
- DUNS: 152973538
- NAICS: 541690, 541712
- Woman-owned small business
- Web site: www.pollere.com
- Contact: nichols@pollere.com

Our primary focus is medium to long term engagements, though focused short term projects and expert consulting can be accommodated. In addition to our full-time Pollere consultants, we can provide limited-engagement by world-class individuals in a review or advisory capacity.

Why Pollere?

Our goal for our clients is to make you stronger: we shine when you shine.

1. Pollere has proven expertise, focused on architecture and analysis.

- leadership positions in companies and standards bodies
- strategic data networking architectures
- published authors and inventors
- uniquely capable of extracting the best, relevant technologies from the research community and applying them to current problems.

2. Pollere can help you win.

- developed quality of service architecture cited as a strength in the TMOS award.
- DHS SBIR proposal selected for Award
- DOE SBIR proposal awarded
- excel in communications, both written and presentations.
- bring industry-tested skills and research quality analysis to our engagements.

3. **Pollere is an experienced government contract subcontracter.**

Core Competencies

Communications Engineering:
-Analysis, Reports, Briefings
-Laboratory Experiments and Demonstration Networks
-Modeling and Simulation (including Opnet & ns-2)
-Data Network Architectures

- Routing
- Mullticast
- QoS & Network Traffic Performance
- Security/IA
- Network Management
- Physical, Link, Network, Transport & Authentication Protocols
- Interlayer interactions and impact

Scope of Work

Our specialties include:

- Simulation, comparative analysis, measurement studies, experiments & data analysis
- Risk reduction activities
- Architectural development
- Design & review of network architecture, operational security & IP quality of service
- Network operation audits
- Network assessments/design reviews
- Seminars & tutorials
- Research & analysis presented in reports, seminars, & briefings

We are available individually or as a team, either integrating with your personnel or working to implement a project.

About Us

Our consultants have proven records of leadership, technical expertise, and practical experience in organizations that include:

- Major router vendors
- Tier 1 ISPs
- Government contractors
- Academia
- Standards body leadership
- Industry labs

Our consultants have built and managed groups in product development, research and advanced develoment, professional services. We have worked on government contracts writing and reviewing requirements and in working groups. We bring real-world operational service provider experience to military networks. We are:

- very senior and accomplished subject matter and functional level experts
- great collaborators, team leaders, mentors
- committed to robust design
- proven capable of developing cutting edge solutions into architecture, prototype and standards

Books:
Implementing IPsec: Making Security Work on VPNs, Intranets, and Extranets
Juniper Networks, The Complete Reference
Technical Editor: *Routing TCP/IP Vol I&II, Cisco Press and OSPF and ISIS IGP Design*, Cisco Press
Technical Papers:
conferences, journals, magazines, including award-winning papers.
Patents:
Method for distributing multiple description streams on servers in fixed and mobile streaming media systems, US 6757735
Prioritized Virtual Connection Transmissions in a Packet to ATM Cell Cable Network, US6028860
Method and Apparatus for Providing Differentiated Services, WO0030307A1, US 6608816, US6944128
Multi-Channel Support for Virtual Private Networks in a Packet to ATM Cell Cable System, US 6917614
Method for Detecting Non-Adaptive Network Flows, U.S. 6934256
Random Early Detection Policer using Randomization of Packet Drops, US 7149187
Network Certifications:
JNCIE #2 and CCIE #3286
IETF leadership:
Differentiated Service Working Group Co-Chair
MIB doctor
RFC authors
Internet Draft authors including new AQM WG
Congressional testimony:
H.R. 850, July 13, 1999

Past Performance

Enhanced Polar Systems Control and Planning Segment (EPS CAPS) Air Force FA8808-13-C-001: Subcontractor to Northrop Grumman on winning proposal and subsequent contract
-Provided SMEs in support of network architecture definition, requirements, service planning.
AEHF Capabilities Insertion Program Study Air Force F04701-02-C-002: Subcontractor to both Northrop Grumman and Lockheed Martin
-Provided SMEs and authored CDRLs, network architecture document section, comparisons.
TSAT Mission Operations System (TMOS) Air Force FA8808-06-C-003: Subcontractor to Lockheed Martin IS&GS on program with all blue performance
- Key positions held include: Chief Routing and Traffic Engineering Architect, Chief QoS Architect, DAMA/DBRA SME, IA Lead
- Pollere personnel singled out for their exceptional work with Outstanding Contributor awards
-Responsible for recruiting and organizing world-class Technical Advisory Group widely regarded as a key innovation in risk burn down.
-Responsible for Routing architecture, Quality of Service architecture, L2/L3 Interaction framework
-Specified and carried out key studies and trades.
-Authored white papers, technical reports, CDRLs
-Requirements definition
-Worked closely with customers (e.g. ADNS, WIN-T, AF) to fulfill requirements, objectives, goals.
-Analysis and verification of IPv6 COTS routers
-Risk burn-down activities
-Key studies of cross-layer interactions
-Network Management work including FCAPS, SNMP, NetConf
-Contributed to leading-edge trade studies on Terminal Interface Simplification and Active Path Monitoring Diagnostics
-Active in integration activities
TMOS PRDA: Subcontractor to Lockheed Martin
-responsible for winning QoS architecture
-responsible for winning Security Architecture
SRA International, Inc:
-Security Strategic Architecture Consulting Services
References on request

Contract Vehicles

ENCORE II: Lockheed Martin team