

## Company Overview

Pollere is a team of world class subject matter experts available for architectural development, review, and risk reduction through design, research, laboratory work, simulation and analysis.

- Founded 2004
- Based in Menlo Park, CA
- Provide Subject Matter Experts and Functional Experts in Communications Engineering and Data Networking
- Consultants in CA, CO, MA, & VA; 75% advanced degrees; 50% PhDs
- DoD FCL
- CAGE: 4K8Z5
- DUNS: 152973538
- NAICS: 541690, 541712
- Woman-owned small business
- Web site: [www.pollere.com](http://www.pollere.com)
- Contact: [nichols@pollere.com](mailto:nichols@pollere.com)

Our primary focus is medium to long term engagements, teaming with our clients. We are also available for focused short term projects and limited engagement review activities.

## Why Pollere?

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

- leadership positions in companies and standards bodies
- strategic architectures in security and QoS
- 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.
- excel in communications, both written and presentations.
- bring industry-tested skills and research quality analysis to our engagements.

### 3. Pollere is ready to subcontract on government contracts.

### 4. Pollere has a proven track record in risk reduction activities.

## Core Competencies

Communications Engineering:

- Analysis, Reports, Briefings
- Laboratory Experiments and Demonstration Networks
- Modeling and Simulation (including Opnet & ns-2)
- Network Architectures
  - Routing
  - Multicast
  - QoS & Performance
  - Security & Information Assurance
  - Network Management
  - Physical, Link, Network, Transport & Authentication Protocols
  - Interlayer interactions and impact

## Scope of Work

Our specialties include:

- Simulation, comparative analysis, measurement studies, & data analysis
- Testbed experiments
- 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 development, 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 work 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: 2415, 2474, 2598, 2638, 2677, 3086, 3662, 3811, 3815

Internet Draft authors

#### **Congressional testimony:**

H.R. 850, July 13, 1999

## Past Performance

TSAT Mission Operations System (TMOS) Air Force FA8808-06-C-003: Subcontractor to Lockheed Martin IS&GS on program with all blue performance (this was the management and operations portion of TSAT)

- Key positions held include: Chief Routing and Traffic Engineering Architect, Chief QoS Architect, DAMA/DBRA SME, IA Lead  
- Pollere personnel have been 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

-Use Case development including DoDAF specifications

-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

-Assisted in development of physical layer architectural specifications, timing and clock synchronization work

-Active in integration activities

-References on request

TMOS PRDA: Subcontractor to Lockheed Martin

-responsible for winning QoS architecture

-responsible for winning Security Architecture

SRA International, Inc:

-Security Strategic Architecture Consulting Services

-Reference on request