



NIST VCAT

Information Technology (IT) Sub-Committee

Review Session

December 2007

Wyatt Starnes, Chair NIST VCAT IT Subcommittee

IT Committee Members

- Chairperson Wyatt Starnes
- VCAT Member Vint Cerf
- VCAT Member David Spong
- VCAT Member Gary Floss
- NIST Liaison Cita Furlani

IT Committee Participants 8-14-07

- Committee and Liaison
- Observers
 - Bob Williams
 - Paul Fleury
- NIST personnel
 - Howard Harary
 - George Arnold
 - Jim St. Pierre
 - Kamie Roberts
 - Wo Chang

Thank You !

Objectives for our meeting

- **Baseline**
 - Review intersection of IT-SC goals with respect to overall NIST mission and VCAT charter
- **Calibration**
 - Review our scope, vision and mission statement
- **Goal Setting**
 - What can we reasonably accomplish over what time frame?
- **Issue Framing**
 - Survey the internal and external landscape

Objectives of this meeting

- Begin to identify challenges, risks, core competencies and opportunities
 - Help NIST to enhance the strategic view for the role of IT to NIST mission, internally and externally

Objectives Assessment

- Would grade the team effort as excellent
 - Discussed and Iterated key objectives & MISSION
 - Discussed cooperative team (NIST IT + Committee) detailed steps to achieve Mission
 - Set timeline for next exploratory steps
 - Healthy discussion about best ways for the IT Subcommittee to add value
 - Initial discussions Market Observations and Trends as they relate to NIST IT

Baseline

■ NIST Vision & Mission

NIST will be the world leader in creating critical measurement solutions and promoting equitable standards. To stimulate innovation, foster industrial competitiveness and improve quality of life.

Promote US innovation and industrial competitiveness by advancing measurement science, standards and technology in ways that enhance economic security and improve our way of life

Calibration

- Internal NIST Group:
 - Information Technology Laboratory (ITL)
 - Cita Furlani, Director
- Sorting out IT at NIST
 - ITL is an Operating Unit (OU) serving
 - Market Needs like other NIST OU's
 - Internal NIST OU enablement via enhanced IT methods, practices and technologies
 - The CIO and operating IT issues (internal IT support) IS NOT the charter of ITL

NIST VCAT IT-SC Charter

- To act as the focal point for VCAT activities with respect to the broader enabling Information Technology in support of the overall NIST mission statement
- To work closely with ITL to provide external market visibility in support of the overall ITL mission within NIST
- To act as a strategic resource in support of ITL mission including internal and external communications

NIST VCAT IT-SC Mission

- Proposed Mission Statement:

To act as a strategic resource in support of NIST overall mission to promote IT innovation by validating and championing internal priorities and by representing market-facing needs and requirements

Context Setting

- On a standalone basis IT is a huge US industry
- On an influence to GDP basis, IT is a competitive enabler in nearly every major vertical commerce sector
- As in the physical world, the cyber world is facing similar globalization risks/challenges:
 - De-perimeterization
 - Infrastructure reliability and stability
 - Hostile threats and other risks

Context Setting

- Information Technology (IT), broadly defined, is a key enabling technology for all global commerce
 - Computing, Networking and Communications
 - Software and Services
 - Infrastructure and enabling methods
- IT is also crucial for both defensive and proactive National Security
 - Defensive – Protect existing infrastructure
 - Proactive – Enabling for responsive Info Sharing

The background of the slide features a blurred document with a blue tint. The word "monitor" is clearly visible in a large, bold font. Other words like "ORIGIN" and "warn" are also partially visible in a smaller font above it. The overall aesthetic is professional and tech-oriented.

NIST VCAT

Information Technology (IT) Sub-Committee

Summary Actions from Meeting
and Timelines

Customers for NIST Strategic IT

- NIST Programs
- External Customers
 - Industry
 - Government
 - Mandates
 - Opportunities
 - Academia

Current IT Strategic Programs

- Complex Systems
- Identity Management Systems
- Information Discovery, Use, and Sharing
- Cyber Security
- Enabling Scientific Discovery
- Pervasive Information Systems
- Trustworthy Networking
- Trustworthy Software
- Virtual Measurement Systems

Group (NIST & IT-SC) Next Steps

1. Understand WHO the customers are
2. Understand WHAT the MANDATES are
3. Understand any synergy between NEEDS Opportunities and MANDATES
4. Understand Market Problems/Opportunities
 - Now
 - Future
5. Map the market Problems/Needs to potential NIST role
6. What are the EXTERNAL market dynamics

Group (NIST & IT-SC) Next Steps

7. Map our distinct competencies to market problems and needs
8. Identify Gaps to Opportunity Set
9. Continuously Validate Deployed and Planned effort to Problem/Opportunity/Needs Assessment

Next Steps, Goals and Timeframes

- Assign actions and timeline
- Goal is to have steps 1-3 ready for report by December meeting
- Goal is to have steps 4-8 ready for report by April meeting

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