

TRUSTED VIRTUAL PRIVATE NETWORK

"TVPN" Service Grid™

A Broad Industry Initiative to Establish Secure IP Communication Systems

Document online at <http://www.cyberrave.com/isoc/tvpn.pdf>

CyberRAVE LLC

Joseph A. Sprute

479-876-6255

33 Westbury Drive

Bella Vista, Arkansas 72714

1. Working Title:

“TVPN” – Trusted Virtual Private Network (TVPN.com)

2. Abstract:

In times of emergency, people everywhere have personal, public and private issues that demand attention. The public Internet now serves as a linchpin in global communications. TVPN is a human-to-computer “Change Agent” needed to establish accountability and responsibility for digital communities.

3. Description:

TVPN safeguards “the public interest” by establishing an “always-on” network of networks (Grid) that connects certified solution providers, first responders, authorities and trusted sources with people in the community.

TVPN establishes a defense-in-depth, secure remote access framework for end User-Group communities who require Web-based interconnection services. It provides “always-on” connectivity to secure grid communication services between users and groups within vertical markets. And, it establishes a public policy framework for private (sensitive, not classified) data asset transmission using layered command and control systems designed to harden communications for communities-of-interest, and perform without fail in the most critical of network outage scenarios (disaster, terrorist event, flu pandemic etc).

TVPN monitors and reports the condition of interconnected networks using prescribed policy instruments that certify the condition of data integrity. It involves the broadest possible partnership of “trusted” service providers whose participation is defined by governance standards that dictate transparent reporting for electronic communications, and the roles and rules for mediation (e.g. digital democracy).

TVPN inter-connections are logically organized areas of interest defined by secure virtual communities. Each community addresses the unique nature associated with individual segments within a specific industry, and cooperates broadly with horizontal market interests and others to achieve optimization. TVPN manages complex network mapping issues for diversified User-Groups that participate in more than one community.

TVPN uses common keyword domain names to connect classification schemas with resource discovery systems for wireless and hands-free providers (e.g. human-to-computer interface). TVPN is a cognitive system that uses semantic drivers to define areas of interest and access privileges for whole User-Group communities.

4. Involvement of ISOC community; benefit for ISOC community:

ISOC will further its quasi-governmental leadership position dealing with the evolution of Information Communication and Network Technologies by embracing its role dealing with how critical (emergency) communication between trusted parties is assured.

ISOC will establish common criteria for roles, rules, standards and practices associated with the secure (private) exchange of data over the public Internet for communities of interest.

ISOC will gain visibility and increase membership through sponsored promotion and development of virtual communities.

5. External Partners:

Partner roles exist for governments, insurers, trusted 3rd parties including financial institutions and identity managers, vendor-neutral “standards” bodies, ISOC members who support Virtual Private Network interoperability and any member of the general public who may need real time access to critical communications (e.g. in times of emergency).

6. Measurable goals:

2008:

- Actuary (risk rating) system with QoS and Survivability “Certification” for VPN Service Grid Members.

2010:

- “Interoperable” VPN Service Grid with legislative controls that support Digital Democracy (e.g. jurisdictional coverage).

2012:

- “Automated” network response system with heuristic and adaptive threat management, AAA, reporting, mediation & enforcement within VPN Service Grid.

2014:

- “Comprehensive” VPN Service Grid access support for anyone with a browser and Web connection.

7. Risks:

- Selecting English as the “default reference” for a VPN Service Grid may alienate (non-English) constituents and User-Groups in the marketplace.
- An expected debate concerning use of “industries” as focal point for cognitive (semantic) systems exists.
- Use of “dot com” domains may produce detractors who prefer alternative TLD-based naming strategy.
- Creating public “doorways” to industry-sponsored resource gateways has inherent threats and vulnerabilities.
- A public key system of authentication is highly susceptible to attack.
- Complex policies may not be enforceable in law.
- Public policy issues surrounding data security may detract from the effectiveness of potential VPN Service Grid benefits.
- Intellectual Property conflicts may exist.
- The “Honeypot” nature of keyword domains may provoke “politicalization” of roles and rules, especially concerning intelligence gathering, mediation and enforcement.

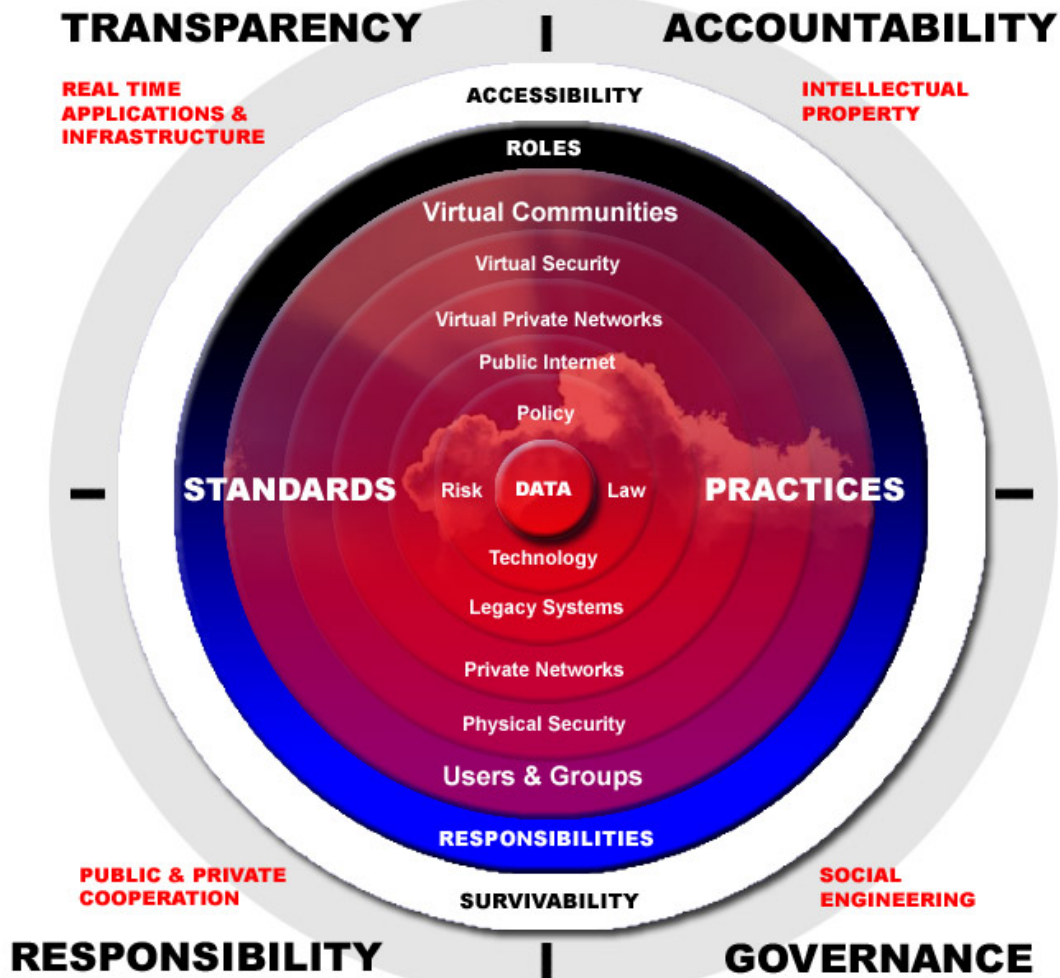
8. Why ISOC and not someone else?

The Internet has become both trusted source and feared adversary. ISOC is at the center of where technology meets the notion of a “digital democracy”. Security in the virtual world must not be relegated to restrictive networks that cannot be accessed by the general public in times of emergency, whereas transmission of personal, public and private data must be safeguarded accordingly. The world needs help maximizing those benefits associated with Web technology for social advantage. The notion of “privacy” has universal appeal, where the need for authority and privilege is obvious, yet highly complex.

Only ISOC is capable of influencing next generation technologies on the scale needed to deliberate obstacles that prohibit wider adoption including transparency, accessibility, interoperability, insurability and survivability.

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Trusted VPN Service Grid
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