

# Smart Notification and Alarm Protocol (SNAP) for Email

**John Neystadt**  
**IETF-50**

Copyright 2001 Converse Network Systems

The information and data contained in this presentation (the "Licensed Presentation") are proprietary to, and comprise valuable trade secrets of, Converse Network Systems, which intends to keep this Licensed Information confidential and to preserve them as trade secrets. Copies of this Licensed Information are provided in confidence by Converse Network Systems pursuant to a written license agreement, and may be used, copied, transmitted and stored only in accordance with the terms of such a license. No title to this Licensed Information is to be transferred.

# SNAP - Orientation

## ▪ History

- During previous years and now there were a number of proposals in this area. Most of them cover the problem only partially or are not email focused.
- References
  - draft-mahy-sip-message-waiting, draft-roach-sip-subscribe-notify
  - ISENS (1998) draft-khare-notification - Scenarios for an Internet-Scale Event Notification Service (ISENS)
  - draft-nerenberg-sin-framework, draft-nerenberg-sin-imap
  - ...

## ▪ Instant Messaging

- Focused on very different requirements, can be overkill
- Multiple proposed architectures
- Immature Standards
- May be used as a transport in the future

# SNAP - The Need

- **Purpose**

- Define Mail Notification and Alarm Protocol to enable Messaging Servers (Email, UM, VM, etc) to notify to outside world about mailbox events

- **What?**

- Actions: new message, deleted message, message rejected, login, logout
- Alerts: mailbox full, account locked
- Counters: New / Seen, Urgent / Normal, Email / Fax / Voice / ...

- **When? Contexts to be used:**

- Enable scalable Server to Gateway protocol, not only Server to User Agent
- Gateway can be special purpose Notification Gateway, Presence Server, SMS Gateway, Fax Gateway, etc.
- Filtering - which events to send, is out of scope of the protocol

- **How? - Propose to define two separate standards:**

- XML or MIME based schema for required content fields
- Define one or more transport bindings (HTTP, SIP, BEEP, SMTP, ???)