
MIT Kerberos Consortium Executive Advisory Board Meeting

“State of the Consortium”

November 3, 2008

Stephen C. Buckley
Executive Director

Goals of the Kerberos Consortium

- Provide leadership to the world community
- Establish Kerberos as a universal authentication mechanism.
- Make Kerberos appropriate for new environments.
- Enable Kerberos across a plethora of endpoints.
- Help developers integrate Kerberos.

Goals of this Meeting

- Report back on year one progress.
- Establish priorities for year two

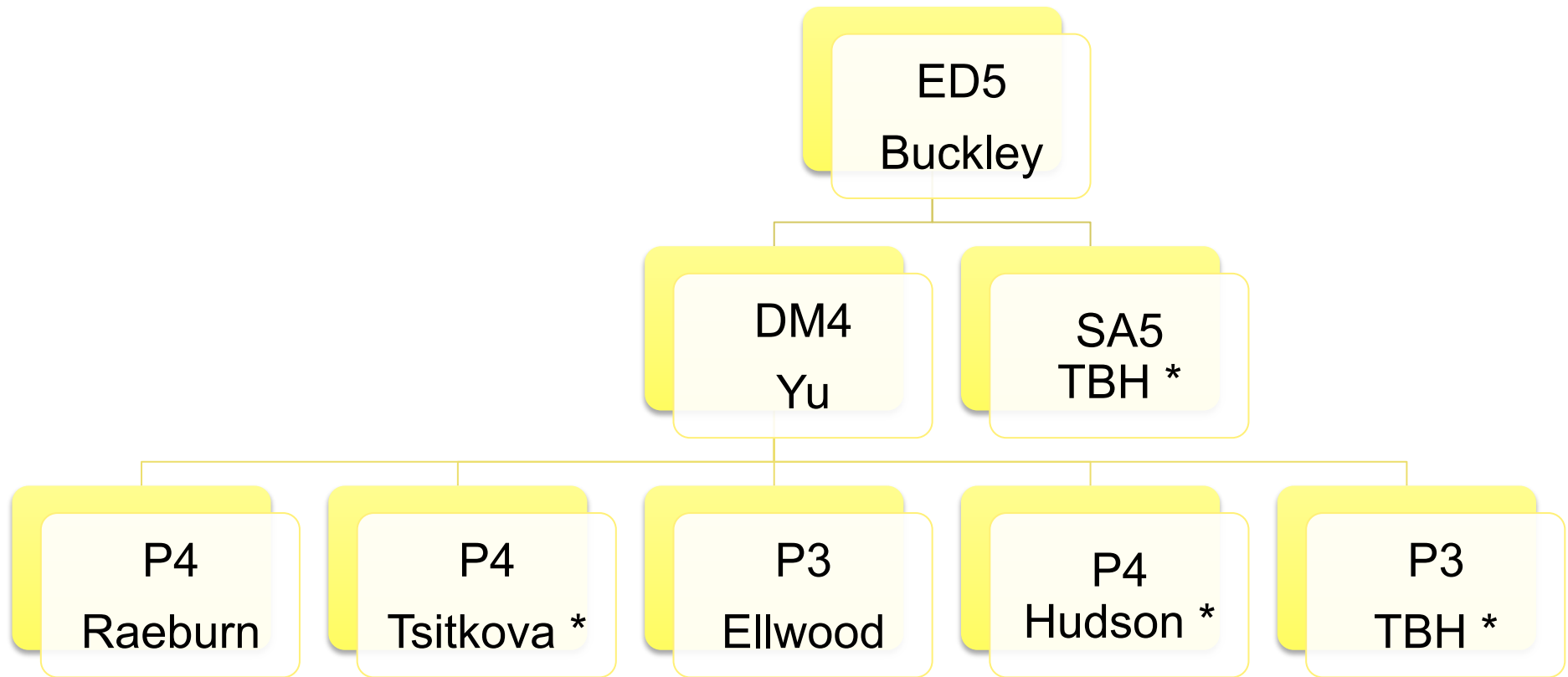
Board Members

- Jordan Hubbard, Apple
- Slava Kavsan, Microsoft
- Wyllys Ingersoll, Sun
- Paul Armstrong, Google
- Wilson D'Souza, MIT

20 Sponsors

- **Apple**
- Carnegie Mellon
- Centrifify Corporation
- Cornell
- The United States
Department of Defense
- Duke University
- **Google**
- Iowa State
- **Microsoft**
- **MIT**
- Michigan State
- NASA
- Pennsylvania State
- PistolStar
- Stanford
- **Sun Microsystems**
- TeamF1, Inc.
- University of Alaska
- University of Michigan

New Team Organizational Structure



* = New

Board Priority: Huge Doc Push

- “The Role of Kerberos in Modern Information Systems”
- “The MIT Kerberos Administrator's How-to Guide”
- “Best Practices for Integrating Kerberos Into Your Application”
- “Why is Kerberos a Credible Security Solution?”
- “Recommended Practices for Deploying & Using Kerberos in Mixed Environments”

Board Priority: Database Support

- KC recruited summer intern
- MySQL recruited Google SOC student
- Working to make Kerberos authentication to MySQL a priority
- KC offered resources
 - Students
 - Design and architecture expertise
 - Documentation and “Best Practices”

Board Priority: Coding Practices

- Significant progress in style and process (opened up on Kerberos wiki)
- Selected and purchased Coverity static analysis tool.
- Hired experienced C programmer to be "code czar"
- Better team code review
- Source code browsing tools

Board Priority: Good Test Suite

- GSS Monger received under Microsoft Permissive License.
- Test Engineer hired with start date of Oct 1, 2008
- Microsoft agrees to take MIT's changes
- Needs: UNIX version

Strategic Pillar: Kerberos on Mobile

- “It’s all about the battery”
- Reduce disk and in-memory footprint.
- Working with Apple
- Significant progress on “Kerberos Lite”
- Presentation later today.

Strategic Pillar: Maintaining & Securing

- Adopt realistic solutions to security weaknesses
- Adopt technologies that encourage others to extend Kerberos and use it in new ways
 - Kerberos Identity Manager
- Presentation later today

Strategic Pillar: Vendor Independence

- “Open Evolution”
- Links to documentation of extensions
- Goal of feature parity
- Help document and standardize
- Encourage code donation and relicensing
- Competition good
- Duplication of effort is generally bad
- Interoperability is key

Preliminary Goals for Year Two

- Kerberos Lite for Mobile and Embedded
- Kerberos 1.7
- Interop lab and interop event
- Kerberos' role in the "Identity Metasystem"
- More docs: Wallet, GSS-API, "How to..."
- Simplified Host Config
- "Modularity"

Kerberos 1.7

- Incremental propagation support
- Removal of krb4 code
- Kerberos Identity Management (KIM) API
- Improved master key rollover / service key rollover
- Enhanced error messages for GSS-API
- Cross-platform CCAPI Windows
- Improved client-side referrals
- Domain_realm KDC-side referrals
- Collision avoidance for replay cache
- Logging of all ticket requests
- Implement MS protocol extensions