

ESRL Information Systems Theme IT Consolidation



- Overview
- ESRL Network Transition
- Challenges to Secure Collaboration
- Questions

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IT Consolidation



Changing Regulatory Landscape

- ESRL Consolidated Certification & Accreditation (C&A)
- Federal Desktop Core Configuration (FDCC)
- Federal Information Security Management Act (FISMA 2009)?
- Trusted Internet Connections Initiative (TIC)

Changing Security Landscape

- Government information and “.gov” network presence are marketable commodities
- Government-related security incidents are perceived as failures of the public trust
- Inevitable legislative and executive response calls for more oversight, increased reporting

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ESRL Network Transition

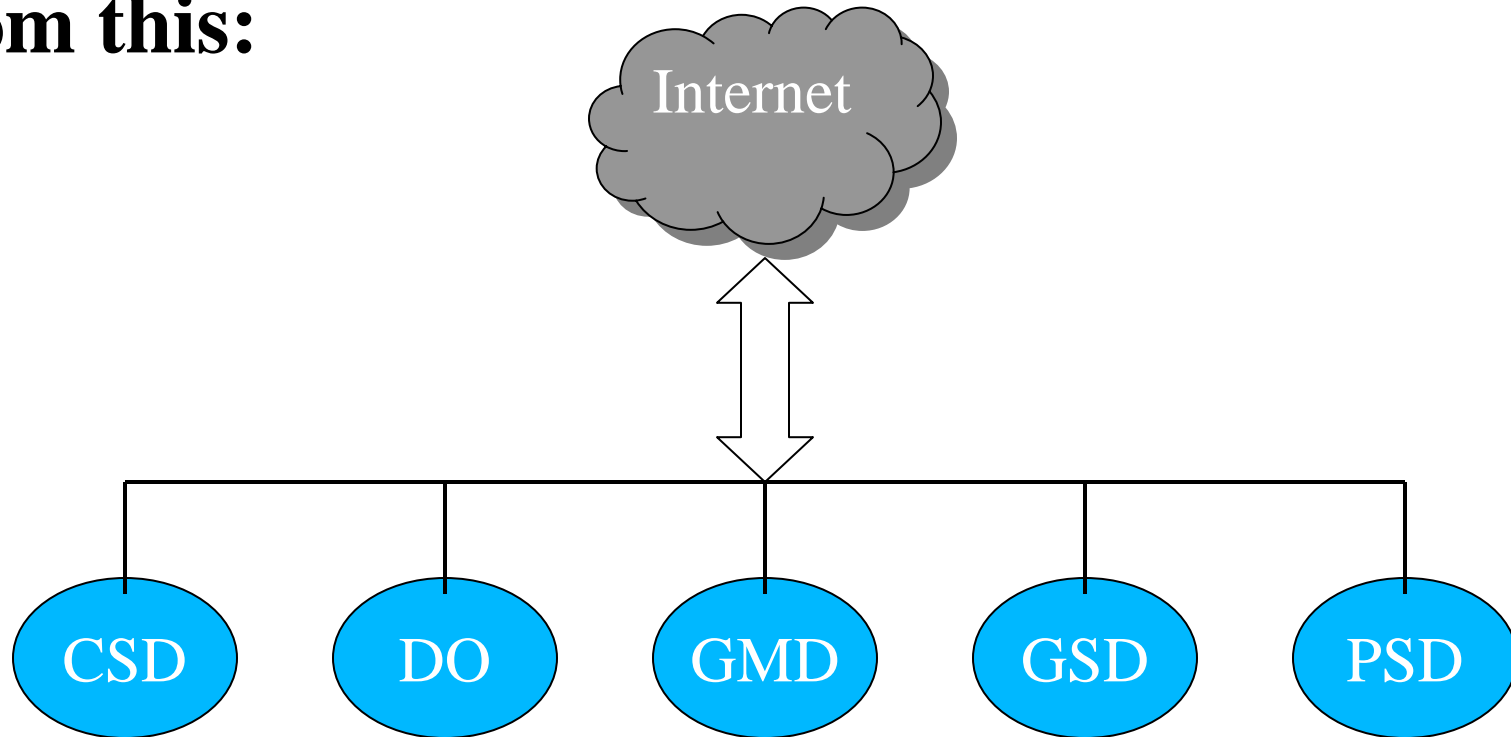
Impetus:

- DSRC IT Architecture Group formed in October 2006
 - Recommended moving from organizationally-segmented to functionally-segmented network architecture
- ESRL Consolidated Certification & Accreditation (C&A):
 - Common network perimeter
 - Eliminate or minimize redundant infrastructure (authenticators, remote access, data duplication) across ESRL
 - Standardize practices and configurations

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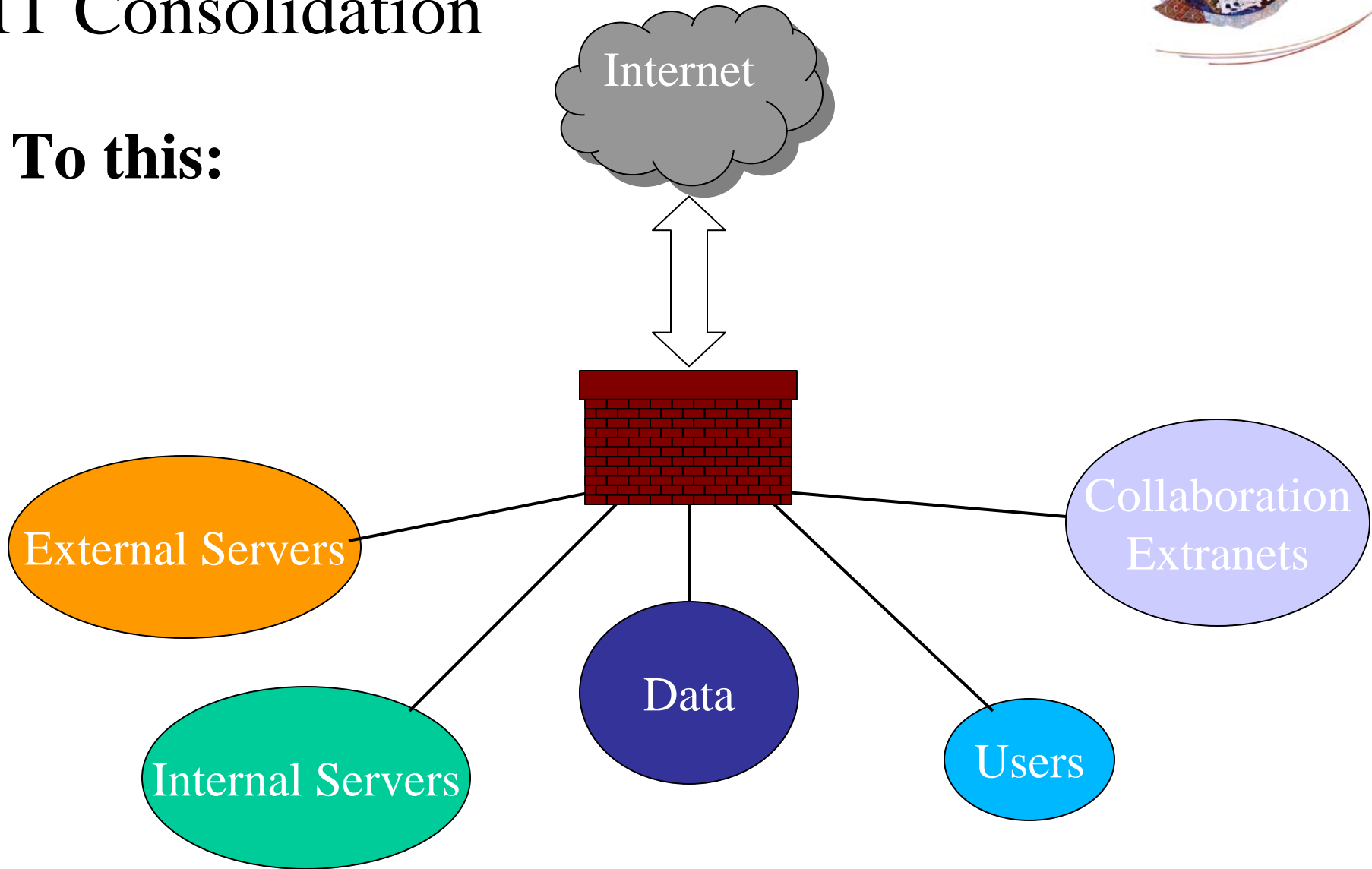
From this:



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To this:



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Transition Timeline

1. Move all ESRL networks “as-is” behind central firewall cluster
 - 3 of 4 Divisions moved so far
 - Expected completion: end of January 2009
2. Migrate Division perimeter router/firewall rulesets up to central firewall cluster: February 2009
3. Transition to final (functionally-segmented) network architecture: 2010?

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Challenges to collaboration

- Sharing resources across NOAA, Government, and University boundaries is becoming more difficult as campus perimeters continue to harden
- Mandates for enabling scientific IT collaboration are not clearly articulated
- Mandates for higher IT Security are very clearly articulated and progress is regularly reviewed
- OAR/ESRL needs an advocate for scientific IT collaboration