

# Moving Baselines Forward



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- The Vision of Baselines and Benchmark Developments
  - Authoritative ownership
- Issues with Current Baselines
  - Ownership
  - Support
- Missing pieces
  - Integrity
  - Proof of authenticity
  - Sharing SCAP Content between tools
- Setting a foundation for the future
  - Repository Models

# The Vision of Baselines and Benchmark Developments



- Those that create the guidance should own it
  - Authoritative ownership
  - Responsible for distribution
- Guidance documents should be fully actionable and self contained
  - Administrative Questioning
  - Technical Control Monitoring
  - Guidance Prose
- Easily accessible standardized content shared between validated products

- Repositories:
  - NIST Repository
  - MITRE OVAL Repository
  - OS Vendor Repositories
  - Product Content
- Content integrity validation missing
- No way to prove authenticity
- Kludgy ways for an organization distribute the same SCAP content to multiple SCAP validated products on the same network
- Vendors have their proprietary way (or no way) of doing this in an enterprise

*Wasn't the goal of SCAP to provide standardized content between products? While the internals work, the distribution does not.*

# Example



- Large organization (insert an agency or Fortune 500 name here) has multiple SCAP validated tools in their environment with many different sites and departments
- Tools they own are a mixture of point products and enterprise tools
- The organization wants to create their own SCAP-based site security policy which they would like scheduled to run weekly
- Each time they make a change they need to go to each of their tools (and potentially systems) and update the content
- Extremely laborious and time consuming from a staffing perspective...

- Ownership
  - Confusion around centralized repositories
  - Is the content authoritative?
  - Is this content really ready to be used or still under development?
  - What content should I run for what situation?
  
- Support
  - Who do I call for support?
  
- Location
  - Where do I find a benchmark for my specific platform or need?
  
- Miscellaneous
  - How come some content runs and some doesn't?
  - Can we say HKEY\_CURRENT\_USER?

# Product Approaches to Distributing Baselines



- Retrieve them yourself
  - From NIST
  - From Vendors (OS/Product)
- Vendors bundling government developed content
  - Questionable...
- There has got to be a better way...

- Package based retrieval
  - Everything in one package to run a specific benchmark/policy
    - Checks
    - Benchmark
    - CPE support
  - Benefit
    - Consistent content a single entity
    - Ease of verification
  
- Component based retrieval
  - Menu based approach
    - Individual content potentially retrievable from multiple repositories
    - Checks from potentially multiple repositories
  - Benefits
    - Reuse of content



# So what's Needed?



- Packaging focus
  - Documented package structure
  - Organizational information
    - Means to indicate who is authoritative
    - Contact information for support issues
    - Checksum / Signature for package
- Content Service Specification
  - Authentication (potentially optional)
  - Package registration
  - Content availability listing
  - Retrieval capabilities
- Consensus

- More authoritative ownership
  - Vendor Hardening guides
  - Software and Hardware products providing per product configurations
  - Guidance Authors will understand the benefits of actionable content
- Decentralized content availability
  - No longer solely a NIST Checklist focus
  - Yes, this is a good thing
- Commercial content a possibility
  - Availability for subscription or specific use cases

It's time to move forward.



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