

SACM Architecture

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IETF 111 - Online

Updates to the draft, part 0

- March 2021 (-08)
 - April 2021 (-09)
 - May 2021 (-10)
 - June 2021 (-11 and -12)
 - July 2021 (lucky number 13)
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- 2 new issues were opened
 - 7 issues were closed

Updates to the draft, part 1

- March 2021 (-08)
 - Kept the draft alive and unexpired

Updates to the draft, part 2

- April 2021 (-09)
 - Enhanced “Architectural Overview” section
 - Producers/Consumers
 - Defined interactions, topics, payloads, capabilities
 - Added Manager component
 - Revised all diagrams to include Manager

Updates to the draft, part 3

- May 2021 (-10)
 - Further enhanced role of the Manager and its interactions
 - Defined generic status notification operation
 - Component Onboarding -> Component Registration
 - Payloads and Payload Categorization
 - Topic centric
 - Payload centric
 - “Health” operations over the Administrative interface
 - Health check: Manager queries components for liveness
 - Heartbeat: Component publishes liveness to Manager

Updates to the draft, part 4

- June 2021 (-11 and -12)
 - Added Terminology section, updated a couple of times
 - Russ Warren from OCA reviewed, provided comments
 - Clarified repository interface role
 - A couple of terminology items
 - Initial ideas for capability URNs in IANA section
 - Shot in the dark, really

Updates to the draft, part 5

- July 2021 (lucky number 13)
 - Added operational section for Ad-Hoc Collection
 - SACM Producer (e.g. Manager) to Orchestrator
 - Orchestrator to Posture Collection Service
 - Posture Collection Service to Repository Interface(s)
 - Status Notifications

Keeping up the PACE

- PACE == Posture Attribute Collection & Evaluation
- CIS in cahoots with OCA, DoD (Mike Rosa shout-out!)
- Working towards a prototype implementation
 - OpenDXL
 - OpenC2

Proposed Direction

- PACE Prototype development
 - <https://github.com/opencybersecurityalliance/PACE>
 - There's not much there yet, but we're moving.
- Continue evangelizing SACM architecture within OCA
- Draft work continuing
 - Other “flavors” of collection (periodic, event-based, observational)
 - All evaluation “flavors” (ad-hoc, periodic, etc)
 - Info and Data Models
 - IANA and Security Considerations (volunteers?)