ALLSEEN ALLIANCE

Core Working Group: Security 2.0

June 29, 2015

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Agenda

1. Schedule
2. Bindings
3. Triage
4. Open issues
5. Action items

Schedule

Schedule (1/3)

- Dashboard: https://jira.allseenalliance.org/secure/Dashboard.jspa?selectPageId=10903

- Milestones
  - Merged with master – July 24 (4 weeks from now)
    - All feature testing complete
    - Only regression testing remains after this milestone
  - 15.08 release – August 28

Schedule (2/3)

- Test
  - Core
    - [Test plan](#) written and test cases defined
      - Approved by project team on 6/25/15
    - Writing unit tests has begun
      - SC: https://jira.allseenalliance.org/browse/ASACORE-2081
      - TC: https://jira.allseenalliance.org/browse/ASACORE-2080
  - Security Manager
    - QEO
      - Identified test cases covered by security manager testing
      - Working implementation by July 3
        - » This will be considered "end to end" testing
    - MSFT will port the QEO sample to windows
      - ASACORE-1401

Schedule (3/3) Test Case Coverage

Section	SC Tests	TC Tests	SC Unit Tests Written	TC Unit Tests Written	Passed	Failed
State notification	9	9	2 QCE, 2 QEO	0	1	1
Claim	21	21	14	0	11	3
Authentication	5	5	0	0		
ACL	20	20	0	0		
Default Policy	9	9	0	0		
Rules	40	40	10	0	5	5
Rules-Wildcard	8	8	0	0		
Management	27	27	4 QEO	0		
Others	16	16	0	0		
Total	**155**	**155**	**32**	**0**	**17**	**9**

Bindings

Bindings

- Core implementation
  - SC: C++
    - Gavin (MSFT) to verify internally if they will handle the C binding for Sec 2
      - Will have an update by Thursday's Core WG call
  - TC: C

Triage

Triage

- Review unassigned tickets

- https://jira.allseenalliance.org/issues/?filter=11142

Discussion

Discussion

- HLD Update: Certificate and certificate chain validation
  - Certificate chains will be validated per RFC5280 with the following additions and limitations:
    - Time of validity will only be evaluated if the peer has a time source.
    - The certificate type (Allseen Security Group and Allseen Identity) of the leaf certificate is correctly set per use case.
    - Certificates n -1 (immediate parent of the leaf certificate) up to certificate 1 certificate type is validated to be the same as the previous certificate in the chain or null
    - The associated digest of certificate n (leaf certificate) is validated against the digest of the manifest.
    - The AKI is validated to not be null
    - CRL check is not implemented as there is no CRL
  - We will validate an identity certificate chain when
    - When a peer receives a certificate chain during claiming
    - When a peer receives a certificate chain update
    - When a peer receives a certificate chain during ECDH_DSA authentication
    - Notes:
    - Standard client assumes the HLOS provided time is a time source suitable for validating certificate time of validity.
    - basicConstraints::pathLenConstraint will not be validated

Action Items

Action Items

- Monday call

Thank You

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