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# **Core Working Group**

**March 10, 2016**

The contents of this document, and the interfaces described, and all the information herein, are the result of collaborative discussions by the Core Working Group. This summary documents the final consensus of the team.



**Reminder:**  
**This call is being  
recorded**

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# Backwards compatibility for ECDHE-ECDSA in 15.04/15.09

- Ken solicited feedback and did not find any objections.
  - HAE is going to use ECDHE-PSK
  - Honeywell responded they are not using it



# Security 2.0 State

Updates

# Discussion:

## 16.04 Sec2.0 removes developer preview label?

- Serious concerns about removing the developer preview tag from security 2.0
- Feeling is that not enough progress has been made on making a prototype security manager that could work with apps/devices and provide a “credible” user experience.
- Don’t feel they will be done with this by 3/18
- 3/10: feedback so far has been to keep the preview label on the feature due to lack of feedback.
- Expectation is that there will be significant usage from both MSFT and TwoBulls in the coming months, and there has been very little if any feedback that is actionable in the 16.04 timeframe.
  - Given these two things the WG feels that we should not yet remove the Dev Preview label as we want the flexibility to change implementation/interfaces based on that feedback.



# **“Recommended Security Level”.**

Updates

# ASACORE 2700

- Manufacturer of an “org.Contoso.GunSafe” device might want to recommend that interface as accessible just to “Privileged” users
- Manufacturer of an “org.Contoso.WirelessSpeaker” device might want to recommend that interface as “NonPrivileged”
- Manufacturer of an “org.Contoso.LightSwitch” device might want to recommend that interface as “Unauthenticated”
- <https://jira.allseenalliance.org/browse/ASACORE-2700>
- General consensus is to add this on the producer side
  - If the annotation is not there the default would be to treat it as privileged
  - Suggestion that it should be required – i.e. required and part of certification
    - Dan will contact Ram to ask value of requiring this ins certification
    - Update on last?





# SAL Annotation?

Way

# What was resolution on SAL annotation discussion?

- Using SAL annotation could greatly help in static analysis work
- What was resolution on Microsoft adding SAL annotation?
- Agreement was that the correct annotations are to use to support this goal
  - Need to assign someone to look into this and come up with a proposal that will be cross platform
- Action: Ry will look into what other collab projects are doing on this front, will report back at the next WG meeting.

# WG Meeting/Triage 3/17

- Marcello on travel that day
  - Who can run meetings?
  - WG Meeting?
  - Triage?
- Consensus:
  - 3/17 WG meeting cancelled, triage will be run by Ry and start at 10am PST
  - 3/31 WG Josh will run WG and triage
  - 4/7 WG/Triage run by Josh



# Proposed Roadmap

Based on 3/3/16 discussions

# Proposed prioritized features for roadmap

1. Make Security 2.0 product ready
  - Including better Sample code
2. Diagnosability improvements
3. Key store redesign
  - Some work being done to improve stability in 16.04, redesign may happen in 16.10
4. Sample code development
5. Code sanity improvements – e.g. [ASACORE-2235](#), static analysis, etc.
6. IPv6 support
7. Beef up to be able to replace SCL
  - Layer to make API more dynamic (i.e. create AJ objects on the fly)
  - Make the Library re-entrant, this would likely included ability to handle multiple messages
8. Refactor SCL
  - Assuming 7 this would be shimming SCL APIs on top of 7
  - Set of changes from Steve K: [refactoring/code hygiene](#) effort

Router work in blue  
TCL work in orange  
both in green

# Proposed prioritized features for roadmap (II)

9. Optimize discovery+connect time

10. mDNS protocol compliance

11. Use performance study to identify goals for scalability

- Way has made changes to address some of the issues that were seen in the scalability testing.
- These changes have made a change of about 4x
- Sounds like there are issues with UDP when there are > 10s of devices

12. Make mDNS packet assembly less fragile

13. Refactor interaction of ARDP with data path

14. Get router out of the data path

Router work in blue  
TCL work in orange  
both in green



# Action Items

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- Proposal to outline the process for changing APIs
  - Has been handed over to Brian Rockwell
    - will craft proposal for review by Core WG and then presented to TSC
  - Expectation that this will be reviewed with WG in January.
- Arvind (MSFT) to create Wiki process page linked off of Core WG wiki
  - Remove references to java from mandatory binding list for 16.04 timeframe
  - Hope to have something by the end of Jan.
- Ry (LF): Need to have Alliance running Windows 10 when RTM'd
  - Running the unit tests on the Windows 10 cannot seem to pass
    - Only one set of tests are failing, MSFT has worked with Ry.
    - Issue appears to be the combinations of Windows 10 and the version of VM ware
- MSFT: 16.04 work items, should have a sense by the end of Jan, or early Feb
  - Sec2.0 scenarios, working on C binding for Core Sec2.0



# Action Items

- Add a way in JIRA to track compatibility issues and proposals
  - Proposal is the use a label: “compatibility impact” in the Jira ticket
  - Committers should require for these sorts of change that the release notes be updated
  - **Marcello** to document this process in the Core Process wiki
- Define process to require regression/unit tests for bugs
  - **Marcello** to add description of Committers requiring unit test for bug fixes to Core Wiki
- Define process for handling “Technical Debt”
  - Example: Took a shortcut to make a release and not loosing track of this to fix the shortcut
  - Jira items to track when things are missing – e.g. feature added, but missing from Java binding
  - If shortcut is taken: could create a Jira task to track the problem



# Thank You

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