IDS Conference Call Minutes
March 18, 2021

This IDS Conference Call was stated at approximately 3:00 pm ET on March 18, 2021.

Attendees

Pau Chaisson	Mass DOT
Matt Glockner	Lexmark
Graydon Dodson	Lexmark
Erin Huber	Xerox
Smith Kennedy	HP
Timothy Lyons	Mass DOT
Ira McDonald	High North
Alan Sukert	
Paul Tykodi	Tykodi Consulting Services
Brian Volkoff	Ricoh
Bill Wagner	TIC
Steve Young	Canon

Agenda Items

- The topics to be covered during this Conference Call were:

    - Discussion with the members of the Massachusetts Department of Transportation IT Department on how IDS can help them find ways to securely manage their fleet of printers

    - Paul Tykodi to begin his monthly discussion of 3D printing issues of interest to IDS

    - Review of the discussions at the 3/8/21 and 3/15/21 HCD iTC Meetings

    - Round Table Discussion

- Meeting began by stating the PWG Anti-Trust Policy which can be found at https://www.pwg.org/chair/membership_docs/pwg-antitrust- policy.pdf and the PWG Intellectual Property Policy which can be found at https://www.pwg.org/chair/membership_docs/pwg-ip-policy.pdf.

- The main topic at this call was the discussion with Timothy Lyons and Paul Chaisson of the Massachusetts Department of Transportation (Mass DOT). They have a fleet of printers – some new and some as much as ten years old – and they were looking to see how Common Criteria could help them develop a standard process to show how their fleet of devices are safe.

    Mass DOT has a diverse printer environment which they have to manage. What Mass DOT is looking for is to develop a process to ensure a standardized hardening of their printers from a security perspective/ Tim did mention that they do vulnerability scanning but are looking for the best way to deal with how to ensure their fleet of printers are safe and secure.

    At this point we had an open discussion about a range of topics. Al mentioned that one aspect of Common Criteria certifications was that one of the required outputs that comes out of a certification of printer are guidelines for the secure installation and operation of the printer, including what should be the "secure configuration" of the printer. The Protection Profile that has been developed for hardcopy devices, including printers, includes the standard uses cases and security features that a printer should have. Tim mentioned that the Mass DOT does want to do upgrades of their older printers and keep products current but their biggest need is how to get a baseline (secure) configuration for Each of their devices.

    At this point Al mentioned that one of the things that IDS is developing are HCD Security Guidelines. Ira then gave a brief summary of the planned content of each chapter of the HCD Security Guidelines. Ira stated that the guidelines are planned to be at a higher level than a Protection Profile

and would contain specific recommendations, but within the larger framework that a hardcopy device can be (and typically is) a node in a network. Ira also indicated in a response to a question from Tim that the guidelines would also discuss centralize administrative management of HCDs.

Tim indicated that Mass DOT's desire would be for each of its printers to be hardened "out of the box" by default; i.e., they are secure by default. Paul then mentioned that from his experience he has noticed that even when public interfaces are specified and in place for a long time, even if they are not correctly specified, they are very difficult to get changed because printer owners are concerned about unknown consequences to customers if configurations are changed.

Graydon mentioned at this point that an important issue is what is the threat model that Mass DOT is concerned about. To illustrate the point Al went through briefly the Security Problem Definition from the Application Software Protection Profile as an example of what a threat model would be and how it related to assumptions and security objectives that would be found in a Protection Profile.

Tim and Paul from Mass DOT had to leave at this time. Both agreed the discussion was very helpful and worthwhile, and they would get back to us if they had any questions.

- Paul Tykodi then talked about 3D printing topics. This is the first of what will be a monthly report on the second IDS Call each month on 3D printing topics of interest to IDS. This month's talk was more of an introduction. Paul, who is on the PWG Steering Committee, is our PWG 3D Printing expert and self-proclaimed "3D printing evangelist".

3D printing, or Additive Manufacturing as it is better known, really involves taking raw materials and using a process involving cresting a model and a printer to create a 3D object. The big change in 3D printing now is that the process is becoming all digital – called the Digital Thread for Additive Manufacturing. It uses proprietary languages to create the model files and many 3D printers use an opensource OS (3DOS) that is similar to CUPS. A major issue the 3D community is trying to deal with is how can they better share information.

Paul is working with the PWG to develop 3D printing standards that are equivalent 2D printing standards for end-to-end flow. He is also working with Mike Sweet (so is Al) to create a security section on the PWG web site.

- Al reviewed what was discussed at the 3/8/21 and 3/15/21 Hardcopy Device international Technical Community (HCD iTC).

At the 3/8/21 meeting it was mentioned that the Hardware-anchored Integrity Verification Subgroup would be holding its first meeting the next day (3/9). The subgroup did meet on 3/9 and 3/16 and reviewed SFRs from the Dedicated Security Component (DSC) PP for possible inclusion in the HCD cPP to address the Hardware-anchored Integrity Verification ESR requirement.

Al indicated that he had input all of the GitHub issues related to the SFRs and Assurance Activities that the Network Subgroup had recommended be included or added to the HCD cPP and HCD SD.

At the 3/1/21 HCD iTC Meeting JBMIA had agreed that they would propose changes to the ESR based on the ITSCC's final stance on the "encrypt all nonvolatile storage" ESR requirement. JBMIA came back to the HCD iTC before the 3/8/21 meeting and stated that their position was that no changes to the ESR were needed, and that any necessary changes should be made in the Security Problem Definition (SPD). Based on the JBMIA recommendation we held a special Editors Meeting later the week of 3/8/21 where we made the necessary changes to the SPD and HCD cPP to address the "encrypt all nonvolatile storage" ESR requirement. Our goal was to post the updated SPD on GitHub for internal HCD iTC for the 3/15/21 meeting.

Finally, ITSCC confirmed on 3/8/21 that it would provide the crypto contribution for supporting documents by 18 March 2021

At the 3/15/21 meeting what was done on 3/8/21 was summarized. It was agreed that as planned the HCD iTC would review the SPD and provide comments by the next meeting on 3/22/21. We then started looking at the issues Al had entered from the last meeting but did not get far. Al had to go

back and make sure that the changes reflect any NIAP Technical Decisions against the ND cPP or ND SD.

- Round Table: We ran out of time so there was no round table this week.

- **Actions:** None

Next Steps

- The next IDS Conference Call will be April 1, 2021 at 3:00P ET / 12:00N PT. Main topics as of now will be the standard review of HCD iTC meetings/status, HCD Software Guidelines status and Round Table..