**Charter of the PWG**

**Imaging Device Security (IDS)**

**Working Group (WG)**

**Status: Initial Draft**

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**ftp://ftp.pwg.org/pub/pwg/ids/wd/ch-ids-charter-20151023.pdf**

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Position Open

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**Problem Statement:**

Modern Imaging and Hardcopy Devices[[1]](#footnote-1) and Services may be allowed unrestrained access to and storage of secure and controlled documents and resources exposing security and access considerations that are not fully addressed within current standards.

* Imaging Devices provide and use services outside of the traditional concept of a local user or server on a physical device. While current standards such as the IEEE 2600-2008 are focused on addressing issues related to securing local Hardcopy Device functionality, there are currently no suitable Imaging Device standards or recommendation for controlling or validating access to these extended services.
* Imaging Devices provide services to Imaging Clients[[2]](#footnote-2) running on various operating systems and can extend these services as Cloud[[3]](#footnote-3) resources. Imaging Devices and Imaging Clients also use resources and Imaging Services from the Cloud. There are no suitable Imaging Device standards or recommended methodologies for authenticating and securing the Imaging Devices, Imaging Clients, and Imaging Services in a Cloud environment.
* Imaging Devices and Imaging Services have no standard method to associate security information with an Imaging Job and ensure that the security information is maintained throughout the Job lifetime.
* Enterprise networks are deploying network endpoint attachment and compliance protocols and tools to measure and assess the health of devices on the network. These assessment protocols go beyond simply checking that the device possesses the correct credentials to access the network to also monitoring and assessing information such as operating system, security patches, antivirus definition levels etc. Hardcopy Devices (Network Printers, Multi-Function Devices, Network Scanners, etc.) have not been widely integrated into these new assessment protocol schemes, in part because there is no standardized set of attributes that a health assessment server can measure for Hardcopy Devices.

The original goals of the Imaging Device Security Working Group were to address the above issues by developing the necessary specifications and recommendations and to liaison with the Common Criteria MFP Technical Community developing the new Hardcopy Device Protection Profile.[[4]](#footnote-4) The initial set of specifications that were to be developed by this Working Group were:

* TNC Binding for IDS Health Attributes – Define health attributes transport using TNC.
* Remediation specification – Define standard methods to perform remediation of detected device health and security defects.
* IDS Model – Define a common security model for PWG projects and working groups.
* IDS Identification, Authentication and Authorization – Define a set of standards and recommendations for providing the credentials and information required to provide secure access to Imaging Devices, Services and Clients.
* IDS Security Ticket schema – Define a standard schema for specifying, associating and maintaining security information with an Imaging Job, Imaging Device or Imaging Client.

**At the 08/12/2015 IDS Face-to-Face Meeting the IDS Working Group decided that the Working Group should** go into “hibernation” and be resurrected as needed should work on a spec be required. This Charter update reflects that decision. Based on that decision, the new long-term deferred goals of the Imaging Device Security Working Group are to:

* Develop any new required specifications or recommendations to address the issues cited above as directed by the PWG Steering Committee.
* Provide any errata to approved specifications developed by the Imaging Device Security Working Group as directed by the PWG Steering Committee.
* Liaison with any international Technical Committees formed to update or replace the new Protection Profile for Hardcopy Devices.

**Out-of-scope:**

* OOS-1 Define new encryption algorithms
* OOS-2 Define new transport protocols
* OOS-3 Define new application protocols
* OOS-4 Define new hash functions or digital signatures
* OOS-5 Define new network endpoint attachment protocols
* OOS-6 Define new security protocols
* OOS-7 Define new security token, or public key certificate formats

**Objectives:**

* OBJ-1 Define an extended set of attributes for Imaging Devices that may include device configuration attributes to be used for policy enforcement
* OBJ-2 Define a TNC transport binding for health assessment.
* OBJ-3 Define a common Security Model specification for reference by other PWG specifications.
* OBJ-4 Define a set of recommendations for identifying, authenticating and authorizing Imaging Devices, Imaging Client, and Imaging Services.
* OBJ-5 Define a schema for security attributes and a Security Ticket to be associated with Imaging Jobs, Users, Services and Devices

**Milestones:**

**Charter Stage:**

* CH-1 Initial working draft of updated IDS WG charter – DONE
* CH-2 Interim/Stable working draft of updated IDS WG charter – Nov 2015
* CH-3 PWG Formal Approval of updated IDS WG charter – Dec 2015

**Definition Stage:**

* BIND-1 Prototype Working draft of the TNC binding of the Hardcopy Device Health attributes - DONE
* BIND-2 PWG Last Call of the TNC binding of the Hardcopy Device Health attributes – DONE
* REM-1 Initial working draft of Remediation specification - DONE
* SEC-1 Initial working draft of IDS Security Ticket Schema model - DONE
* MODEL-1 Initial working draft of IDS Model specification – DONE
* IAA-1 Initial working draft of IDS Identification, Authentication and Authorization specification – DONE
* REM-2 Prototype working draft of Remediation specification – See Note 1
* SEC-2 Prototype working draft of IDS Security Ticket Schema model – See Note 1
* MODEL-2 Prototype working draft of IDS Model specification – See Note 1
* IAA-2 Prototype working draft of IDS Identification, Authentication and Authorization specification – See Note 1
* REM-3 PWG Last Call of Remediation specification – See Note 1
* SEC-3 PWG Last Call of IDS Security Ticket Schema model – See Note 1
* MODEL-3 PWG Last Call of IDS Model specification – See Note 1
* IAA-3 PWG Last Call of IDS Identification, Authentication and Authorization specification - See Note 1

**Implementation Stage:**

* INTEROP-1 Interoperability testing of the TNC Health Assessment – See Note 1
* INTEROP-2 Interoperability testing of the IDS Security Ticket – See Note 1
* INTEROP-3 Interoperability testing of the Remediation specification - See Note 1

**Maintenance Stage:**

* MAINT-1 Maintenance of PWG 5110.1-2013: PWG Hardcopy Device Health Assessment Attributes – Note 2
* MAINT-2 Maintenance of PWG 5110.2-2013: PWG Hardcopy Device Health Assessment Network Access Protection Protocol Binding – See Note 2
* MAINT-3 Maintenance of PWG 5110.2-2013: PWG Hardcopy Device Health Assessment Network Access Protection Protocol Binding – See Note 2
* MAINT-4 Maintenance of TNC binding of the Hardcopy Device Health attributes – See Note 2

**NOTE 1**: This document has been archived. Continuation of work on the document will be as directed by the PWG Steering Committee.

NOTE 2: This document has been archived. Responsibility for errata updates of these documents will be performed at the discretion of the PWG Steering Committee.

1. IEEE 2600-2008 defines the term Hardcopy Device as: A system producing or utilizing a physical embodiment of an electronic document or image. These systems include printers, scanners, fax machines, digital copiers, MFPs (multifunction peripherals), MFDs (multifunction devices), “all-in-ones,” and other similar products.

The definition of an Imaging Device includes that of a Hardcopy Device, but also may include hardware devices such as projectors or displays and software services or processes that perform imaging functionality such as Character Recognition or document format transformations. [↑](#footnote-ref-1)
2. Terms such as “Imaging Device” and “Imaging Service” used in this document are defined in the PWG MFD Model and Common Semantics document. The term “Imaging Client” is synonymous with the PWG Model term “Client” [↑](#footnote-ref-2)
3. The term “Cloud” is defined in the NIST Special Publication 800-145 (http://csrc.nist.gov/publications/drafts/800-145/Draft-SP-800-145\_cloud-definition.pdf) [↑](#footnote-ref-3)
4. The result of this Technical was the approved Protection Profile for Hardcopy Devices, Version 1.0, 10 September 2015. [↑](#footnote-ref-4)