Charter of the PWG

Imaging Device Security (IDS)

Working Group (WG)

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Problem Statement:

Enterprise class network are beginning to deploy new protocols to measure and assess the health of client computers and other devices on the network. These assessment protocols go above and beyond simply checking that the device or user possesses the correct credentials to access the network to the point of assessing information such as operating system, security patches, antivirus definition levels etc. Hardcopy Devices[1] (Network Printers, Multi-Function Devices, Network Scanners, etc.) do not integrate into these new assessment protocol schemes. One of the reasons is that there is no standardized set of attributes that a network policy server can measure for Hardcopy Devices.

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[1] IEEE Std. 2600 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.

33   The Imaging Device Security WG (IDS WG) within the PWG is chartered to
34   focus on this specific security issue. The group will define a set of common
35   assessment attributes for Hardcopy Devices and will liaison with the specific
36   Network Assessment Protocol efforts to include Hardcopy Device support in
37   those protocols where necessary, In the future, the IDS WG charter may be
38   revised to allow the working group to deal with other types of Imaging Devices
39   (Network Projectors, Displays, etc.) in the Network Assessment Protocols or
40   other security related work items.

41   ## Out-of-scope:

42   - OOS-1. Do not define new encryption algorithms.
43   - OOS-2. Do not define any new transport protocols that implement encryption.
44   - OOS-3. Do not define hash functions or digital signature mechanisms.
45   - OOS-4. Do not define any new network assessment protocols.

46   ## Objectives:

47   - OBJ-1. Define a minimal required set of attributes that can be used to assess a
48   Hardcopy Device's "fitness" to attach to a network.
49   - OBJ-2. Define an extended set of attributes for Hardcopy Devices that may
50   include device configuration attributes to be used for print administrator policy
51   enforcement.
52   - OBJ-3. Define a set of example bindings to the leading network assessment
53   protocols. These may include Cisco's Network Access Control (NAC),
54   Microsoft's Network Access Protection (NAP), the IETF's Network Endpoint
55   Assessment (NEA), and the Trusted Computing Group's Trusted Network
56   Connect (TNC); as well as other network assessment protocols.

57   ## Milestones:

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59   **Charter Stage:**
60   - CH-1. DONE – Initial working draft of IDS WG charter – Jan. 2008
61   - CH-2. DONE – Interim/Stable working draft of IDS WG charter – Jan. 2008
62   - CH-3. TBD – PWG approval of IDS WG charter – Feb. 2008
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64   **Definition Stage:**
65   - USE-1. Initial education on the specific network assessment protocols and
66   development of use cases and requirements. – Q1 2008
67   - ATTRIB-1. Development of draft proposals for attributes to be included in the
68   required minimal set to be measured. – Q2 2008
69   - ATTRIB-2. Development of draft proposals for attributes to be included in the
70   extended set(s) of attributes. – Q2 2008
71   - ATTRIB-3. Finalization of the standardized set of attributes for Hardcopy
72   Devices – Q3 2008
73   - BIND-1. Development of the draft bindings of the Hardcopy Device attributes
74   to the network assessment protocols. – Q3 2008

75   • BIND-2. Finalization of the bindings of the standardized set of attributes for
76   Hardcopy Devices to the network assessment protocols. – Q4 2008
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78   **Implementation Stage:**
79   • PROT-1. Development of prototypes of a Hardcopy Device integration into at
80   least one of the network assessment protocols that use the defined attributes
81   for Hardcopy Devices– Q1 2009