

CONTRIBUTION TO:

ITU EVENT ON COMBATING COUNTERFEIT AND SUBSTANDARD ICT DEVICES

ITU Headquarters, (Geneva, Switzerland, 17-18 November 2014)

Submitted by: Corporation for National Research Initiatives (CNRI)

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Title: [Recommendation ITU-T X.1255 “Framework for the discovery of identity management information”](#)

Recommendation ITU-T X.1255 “Framework for the discovery of identity management information”, approved through the traditional approval process (TAP) in September 2013 by ITU-T Study Group 17 and freely available on ITU’s website, details an open architecture framework in which identity management (IdM) information in digital form relating to entities such as subscribers, users, networks, network elements, software applications, services, and devices -- represented as or converted to “digital entities” -- can be discovered, accessed and used by heterogeneous IdM systems that are supported by a variety of trust frameworks and employing different metadata schemas. The framework also includes a digital entity data model and protocol to enable interoperability across heterogeneous IdM environments and other information systems more broadly.

Combatting the proliferation of counterfeit telecom/ICT devices requires a robust and secure platform for establishing a strong binding between the information associated with a physical device and other related information. The framework’s built-in public key infrastructure, used to authenticate and validate users, systems, and transactions based on their identifiers, can enable secure access to the genuine properties of an authentic device. The X.1255 framework provides a basis for interoperability between various identity management schemes by use of a federated system of registries and thus enables uniform access to available IdM information. This, in turn, enables a comprehensive and secure approach to the discovery and, ultimately, resolution of identifiers, and provides a more reliable mechanism for combatting the proliferation of counterfeit telecom/ICT devices.

The Recommendation is an important step towards making use of the Digital Object Architecture (DOA), advocated by the [Corporation for National Research Initiatives \(CNRI\)](#), which is intended to enable “universal access to information” possible based on unique identifiers associated with digital entities (also known as digital objects) where such information is structured so as to ensure its machine and platform independence.