

SYSTEM AND METHODS FOR AUTOMATIC DEVICE DETECTION

Abstract

Described systems and methods enable an automatic device detection/discovery, particularly of 'Internet of Things' client devices such as wearables, mobile communication devices, and smart home appliances, among others. Device detection comprises assigning a target device to a device category, such as "tablet computer from an unknown manufacturer, running Android®". Some embodiments determine multiple preliminary category assignments according to distinct inputs such as HTTP user agent data, DHCP data, mDNS data, and MAC data. Each preliminary category assignment may come with an associated score. A definitive category assignment may be made according to an aggregate score. Applications include computer security, software provisioning, and remote device management, among others.

Figure 1-A and 1-B