

IPv6 Home Network Naming Delegation

draft-mgmt-homenet-front-end-naming-delegation-03.txt

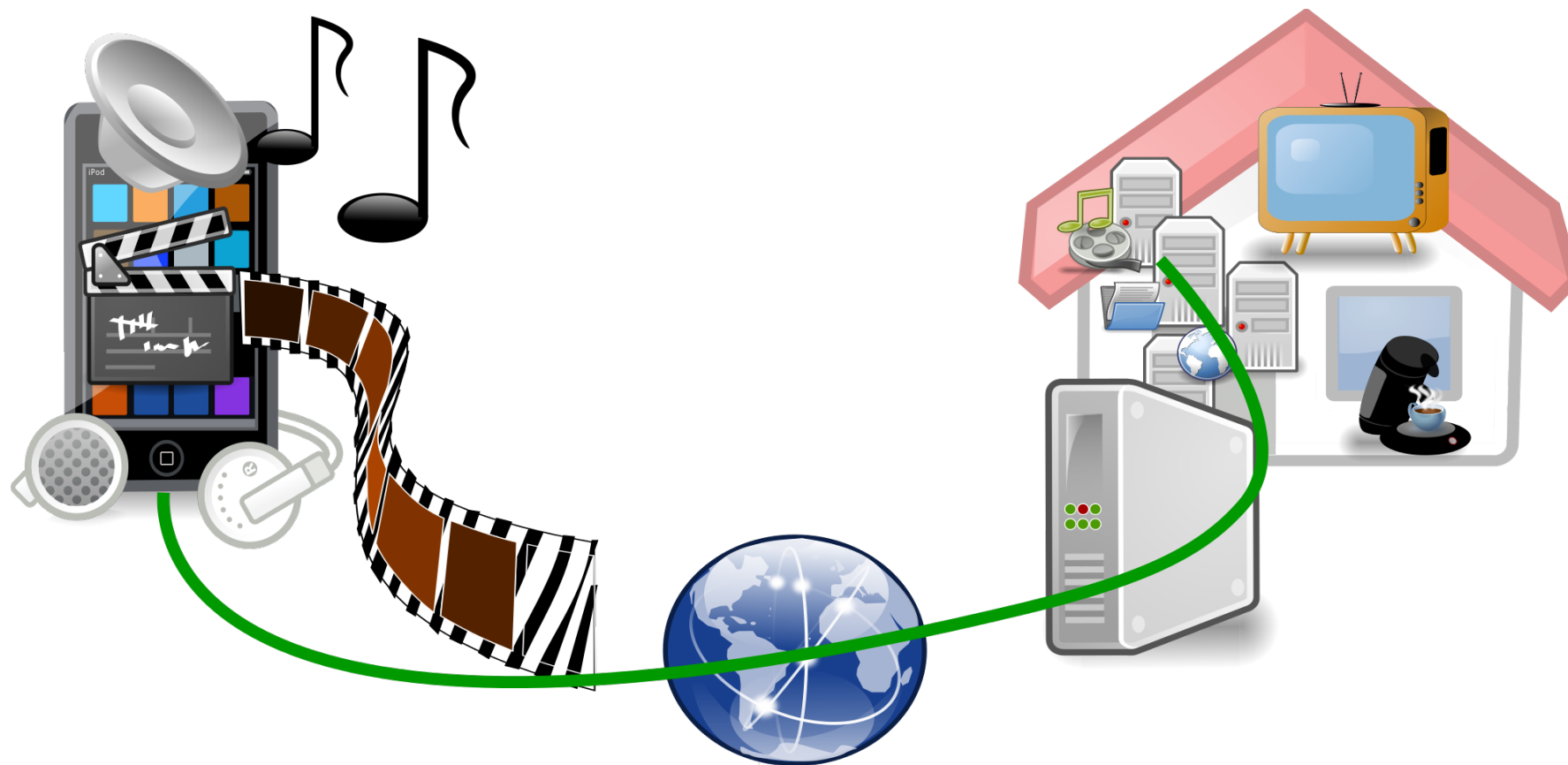
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Problem Statement



Problem Statement

People wants to access their home services home device using names

- CPE are legitimate candidate to manage names within the Home Network

However,

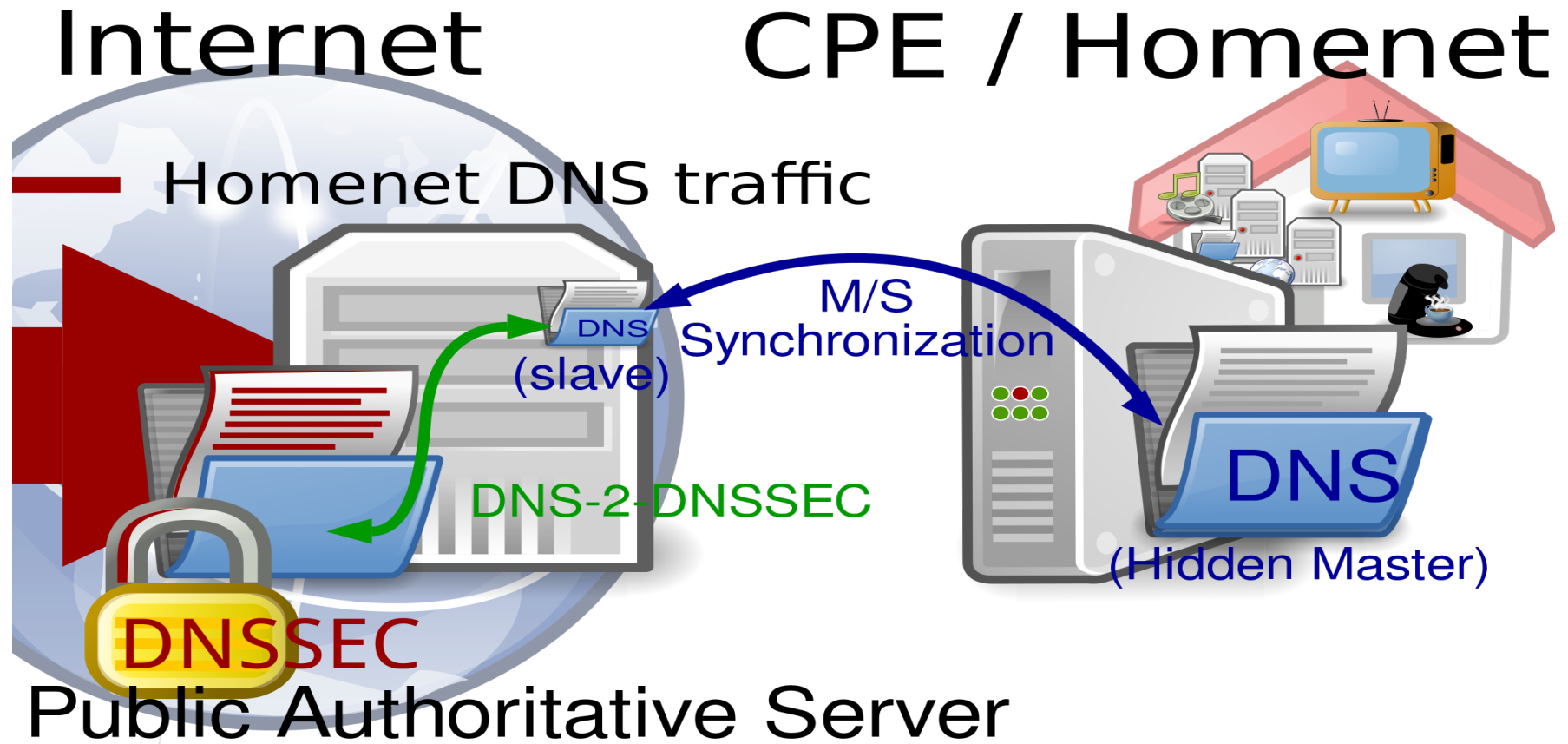
- CPE hardware is not designed to:
 - ▶ Host DNS(SEC) services on the Internet
- CPE are usually managed by end user
 - ▶ That MAY not be likely to manage DNSSEC zones (key roll over, ...)

Problem Statement

The Homenet Naming Architecture:

- Describes an architecture that provides global DNS(SEC) Service without exposing the CPE to resource exhaustion.
- Does not introduce new protocols.
- Document how to properly use existing protocols:
 - ▶ Avoid multiple proprietary/non standard/non inter-operable implementations
 - ▶ To ease Naming CPE setting
 - ▶ To ease DNS(SEC) Service outsourcing for any third party

Public Authoritative Server



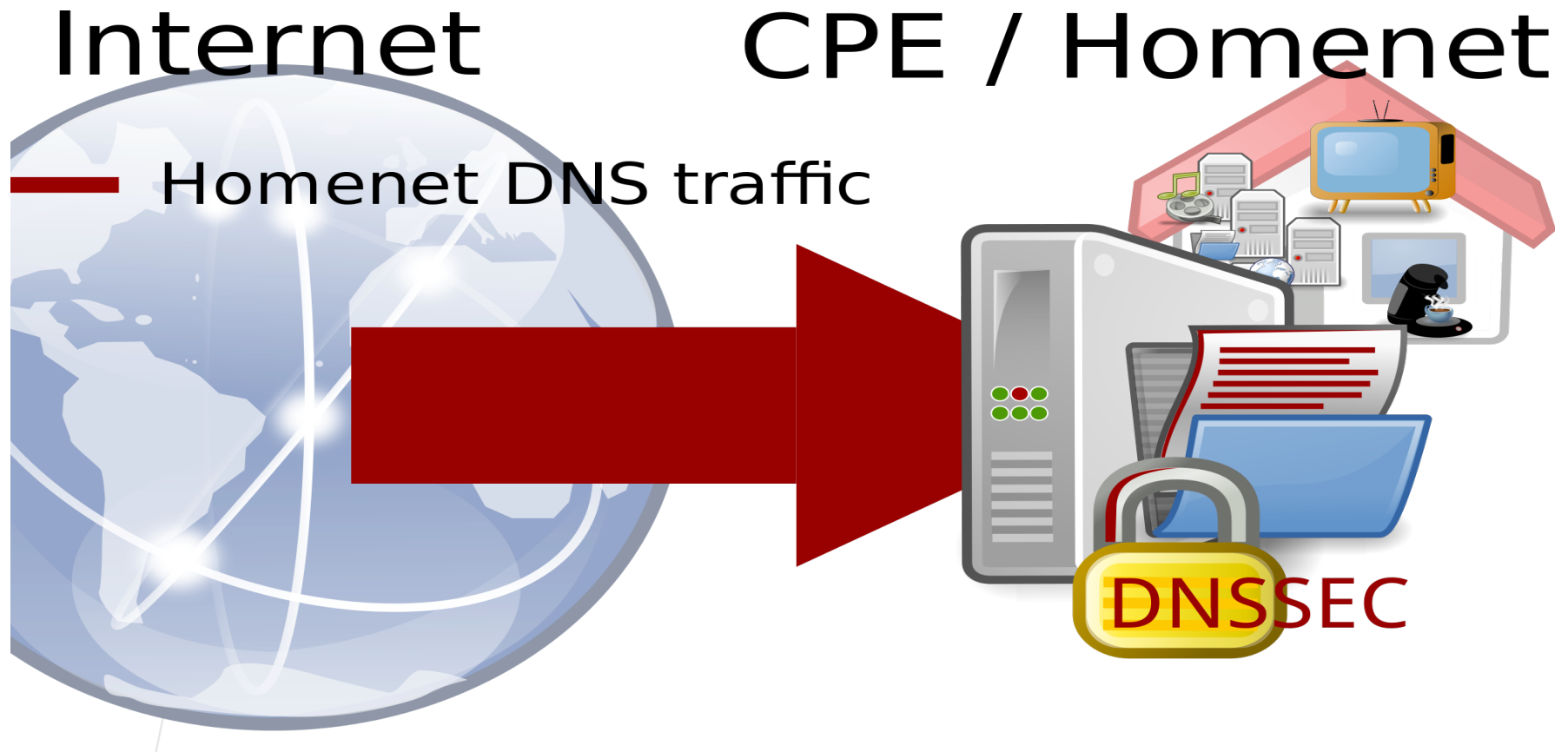
Change log

Version 03 modifications are:

- Adding SOA, PTR considerations (Simon Kelley)
- Removing DNSSEC performance paragraphs on low power devices (Ola-fur Gudmundsson)
- Adding SIG(0) as a mechanism for authenticating the servers

Thank you for your attention

Public Authoritative Server



Public Authoritative Server

The document introduces the Public Authoritative Server that:

- Synchronizes the DNS Homenet Zone with the CPE
- DNSSECs the DNS Zone
- Hosts the DNSSEC Homenet Zone on the Internet

Synchronization of the DNS Homenet Zone is performed with DNS Master/Slave

Public Authoritative Server

