

Discovering Provisioning Domain Names and Data

draft-ietf-intarea-provisioning-domains-04

Tommy Pauly, Eric Vyncke, Pierre Pfister,
David Schinazi, Wenqin Shao

INTAREA
IETF 104, March 2019, Prague

Overview

New RA Option for explicit PvD

- Provides a PvD identifier

- Encapsulates RA options specific to PvD

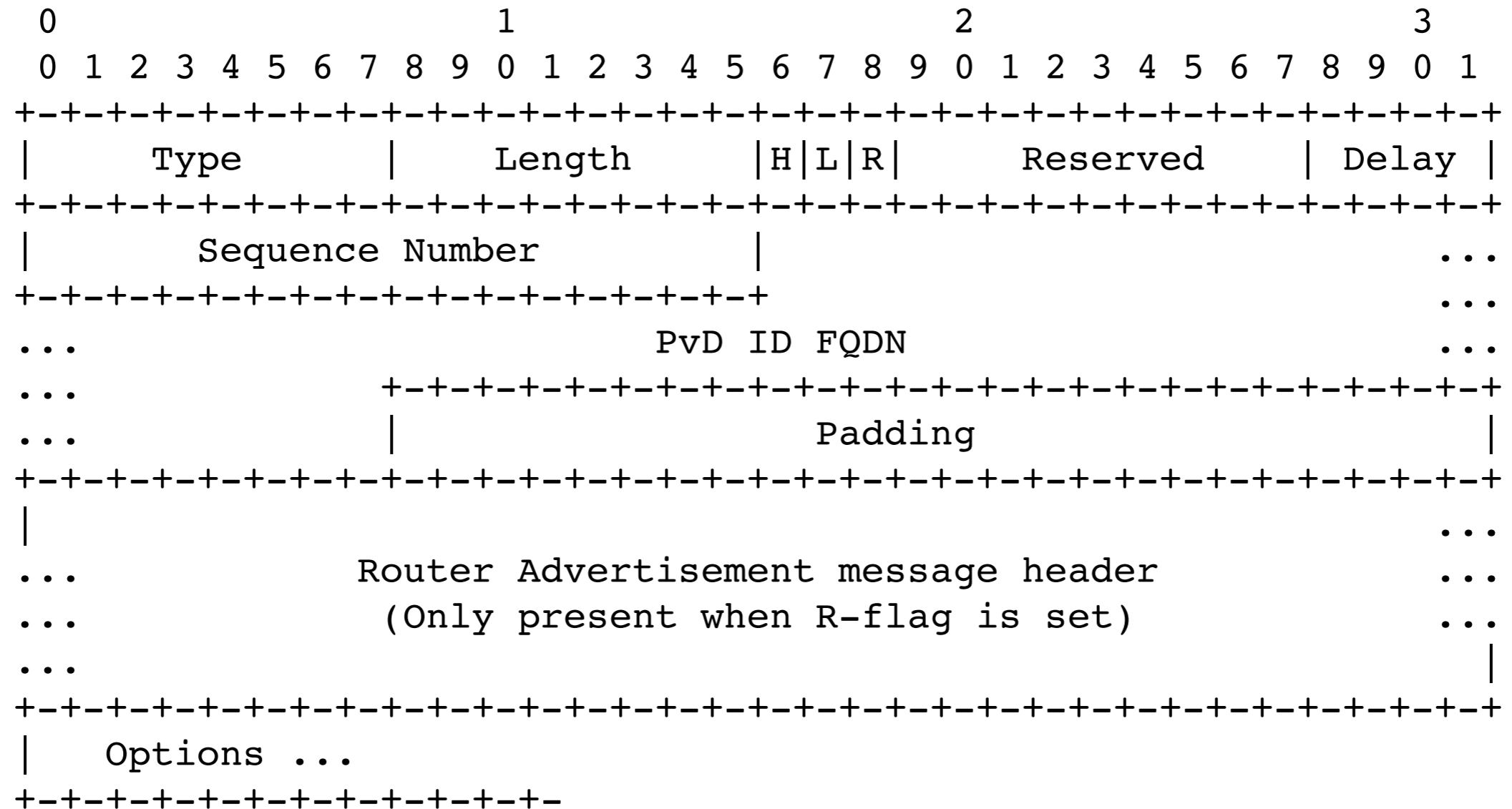
- May or may not be tied to information retrieved via DHCP

Additional information available in JSON format, retrieved from an **https://** URI

- IPv6 prefixes used by PvD are included in JSON to detect misconfigurations

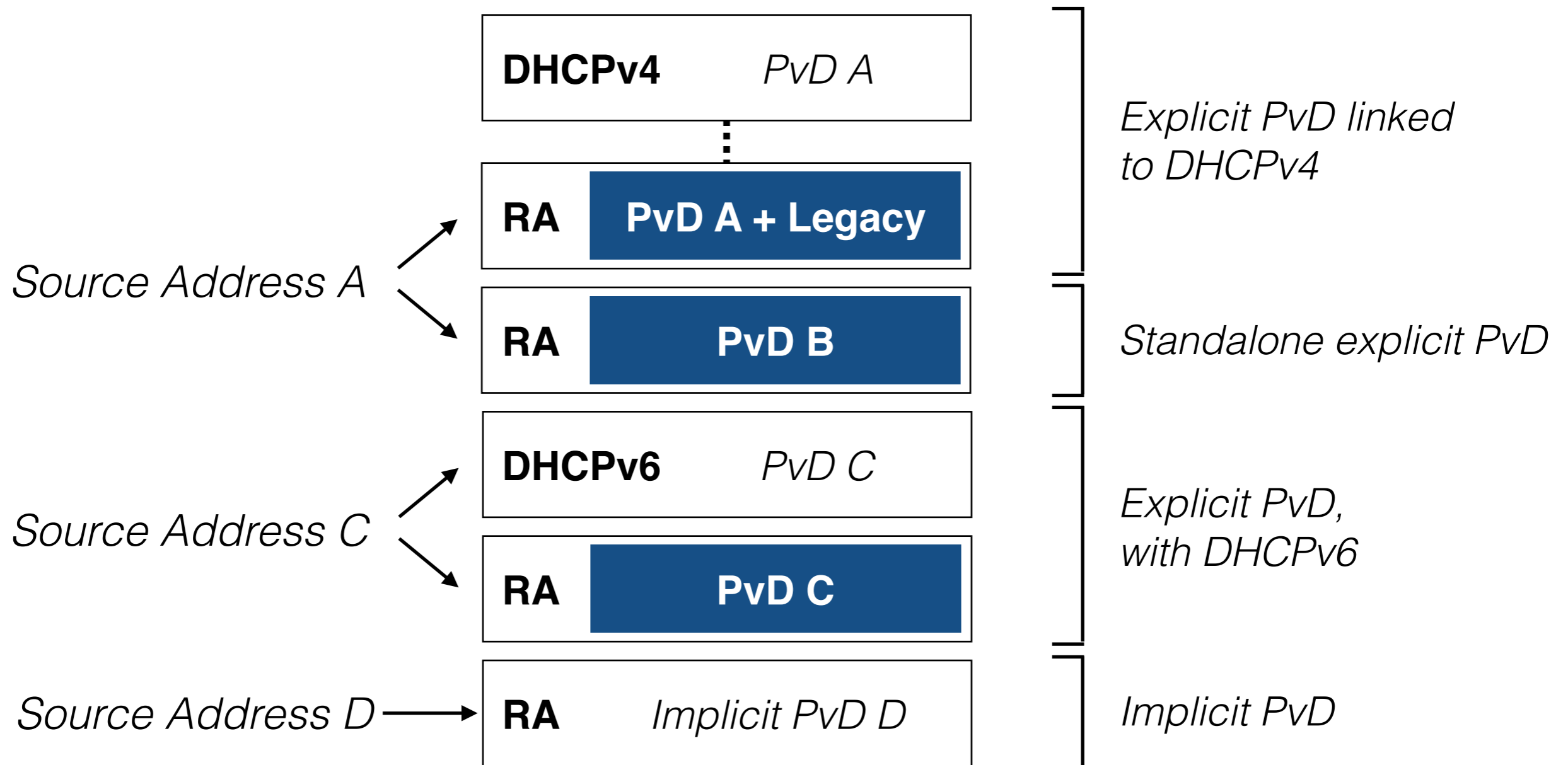
Overview

PvD Option Format



Overview

Implicit & Explicit PvDs



Overview

JSON Registry

JSON key	Description	Type	Example
name	Human-readable service name	UTF-8 string [RFC3629]	"Awesome Wifi"
expires	Date after which this object is not valid	[RFC3339]	"2017-07-23T06:00:00Z"
prefixes	Array of IPv6 prefixes valid for this PVD	Array of strings	["2001:db8:1::/48", "2001:db8:4::/48"]

Updates in -04

DNS Clarifications

Added section discussing use of DNS

DNS configurations **MUST** be isolated per PvD,
helps manage split-DNS scenarios

Cannot meaningful improve trust of DNS
provisioning (such as for encrypted DNS
mechanisms)

Updates in -04

IANA Requests

Clarified registry requests to IANA

“Additional Information PvD Keys” registry for JSON entries; uses Expert Review

“PvD Option Flags” registry for RA option bitfield; requires Standards Action

Next Steps

PvD RA option has been tested using multiple implementations at prior hackathons

Authors believe document is stable

Ready for Working Group Last Call!

