

DOTS server Discovery

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Discovery Procedure

1. Local Configuration
2. Service Resolution
3. Anycast

Discovery procedure is performed on each interface and each address family

Discovery: Local Configuration

- Configuration within application

Discovery: Service Resolution

S-NAPTR lookup for DOTS service

- IN NAPTR 100 10 "" DOTS:dots.signal.udp "" datagram.example.net.
- IN NAPTR 200 10 "" DOTS.dots.data.tcp "" stream.example.net.
- Add new application service tag "DOTS" to IANA
- Add new application protocol tags "dots.signal.udp", "dots.signal.tcp" and "dots.data.tcp"

Discovery: Service Resolution

example.net.

```
IN NAPTR 100 10 "" DOTS:dots.signal.udp "" datagram.example.net.
```

```
IN NAPTR 200 10 "" DOTS:dots.data.tcp "" stream.example.net.
```

datagram.example.net.

```
IN NAPTR 100 10 S DOTS:dots.signal.udp "" _dots_signal_.udp.example.net.
```

stream.example.net.

```
IN NAPTR 100 10 S DOTS:dots.data.tcp "" _dots_data_.tcp.example.net.
```

_dots_signal_.udp.example.net.

```
IN SRV 0 0 3478 a.example.net.
```

_dots_data_.tcp.example.net.

```
IN SRV 0 0 5000 a.example.net.
```

a.example.net.

```
IN A 192.0.2.1
```

Discovery: Anycast

- Send request to IANA-assigned DOTS anycast address.
- DOTS client will be re-directed to unicast DOTS server address.

DOTS server Discovery

- Comments and suggestions
- New draft ?