Device Discovery & Registration (AMWA IS-04)

How AMWA IS-04 Simplifies Scalable Media Networks

WHAT PROBLEM DOES IS-04 SOLVE?

- IP Routing Systems require the controller to have a management API relationship with each of the endpoint devices

- Finding the devices and establishing these API connections should be automated – particularly in a dynamic network where devices might be moved or reconfigured
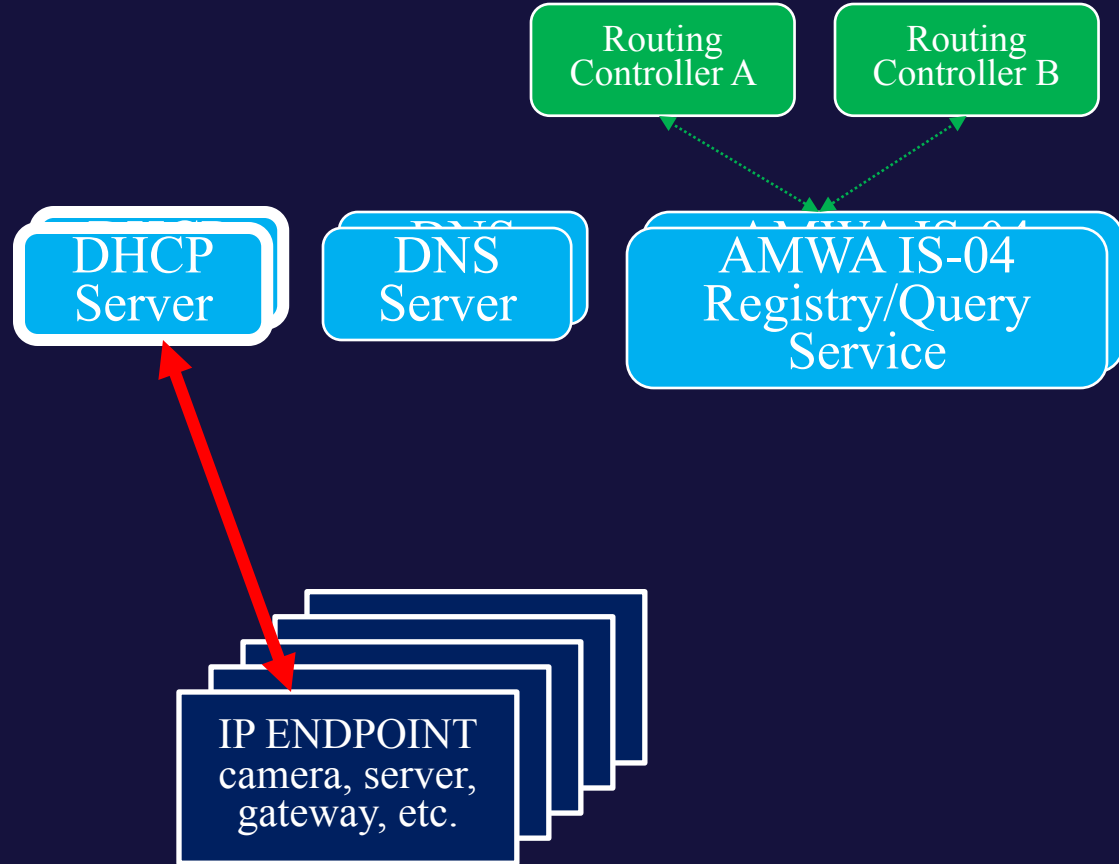
How much of this configuration am I going to have to do by hand?

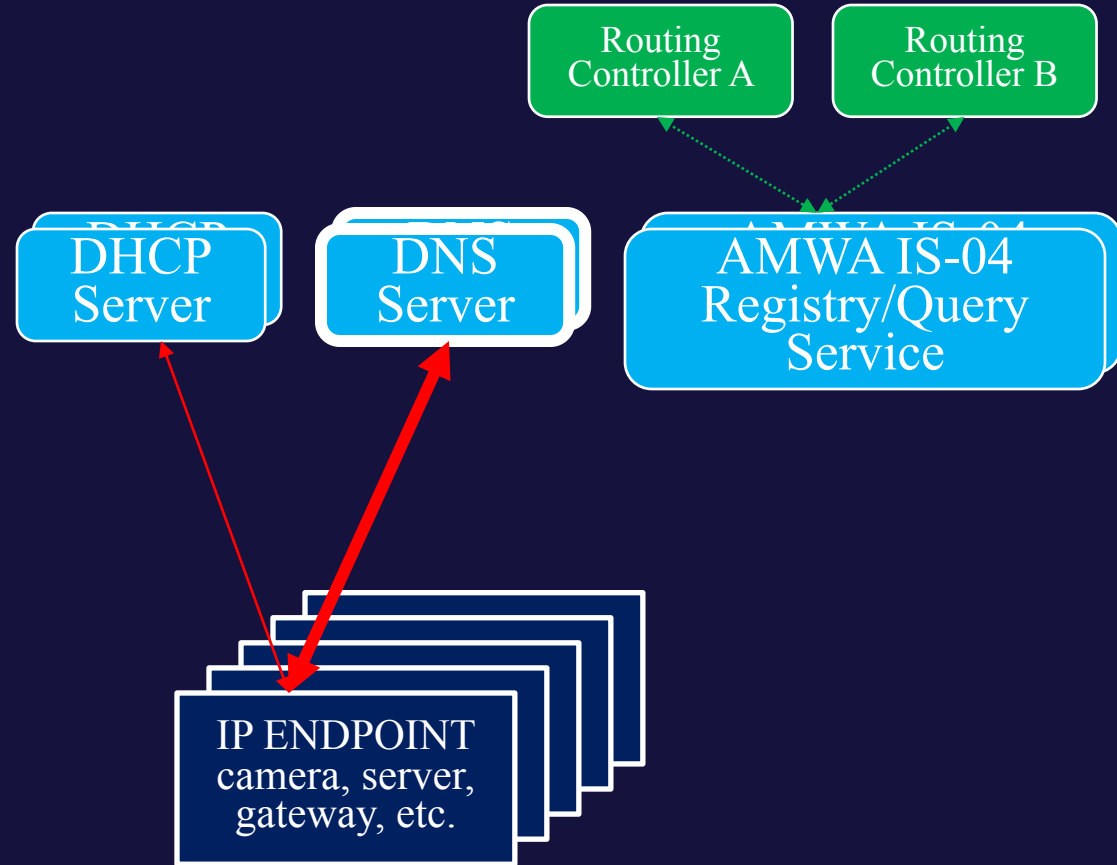IS-04 → Endpoints Register Themselves

AMWA IS-04 REGISTRY IN ACTION

- **Endpoint gets its network details from the DHCP server**

- Endpoint asks the DNS server to locate the registry service(s)

- Endpoint registers itself with the registry service

- Endpoint periodically checks in with the registry

- Endpoint updates its registration if anything changes

- All these operations are standard IP transactions that work over management or media networks

Routing Controller A

Routing Controller B

DHCP Server

DNS Server

AMWA IS-04 Registry/Query Service

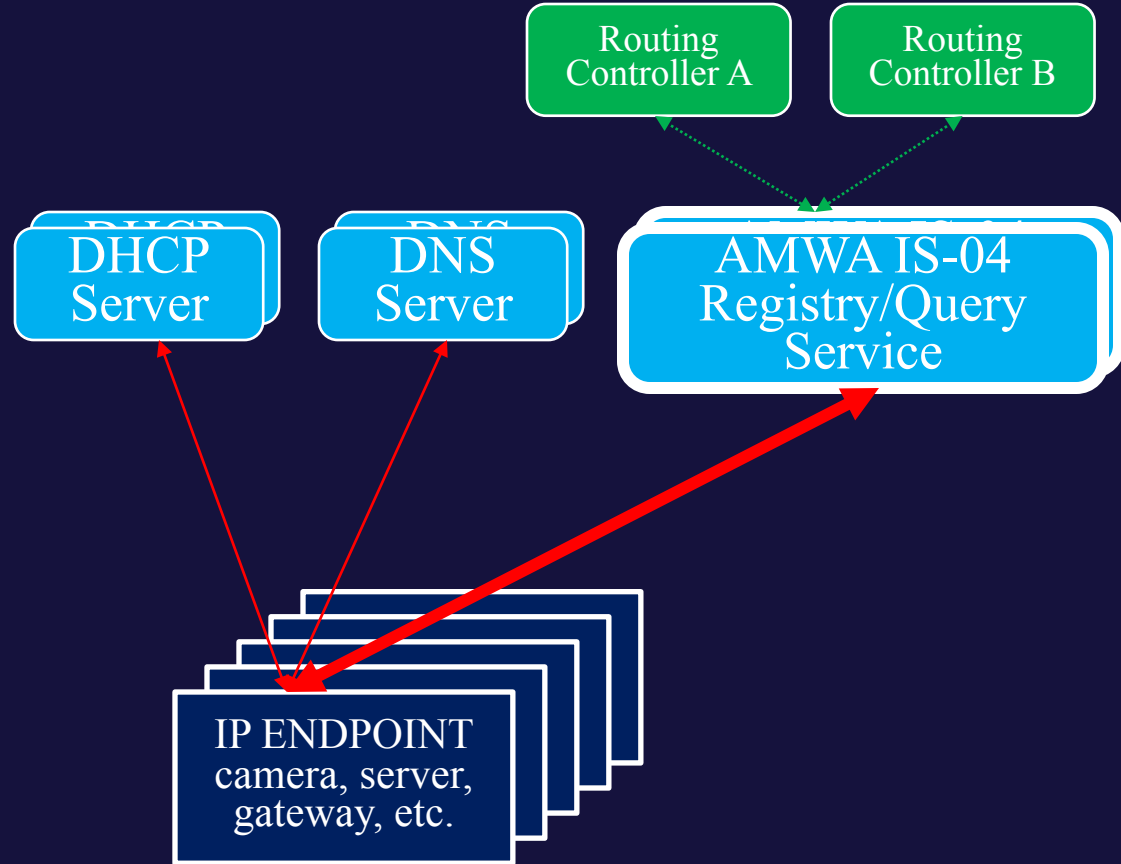IP ENDPOINT camera, server, gateway, etc.

AMWA IS-04 REGISTRY IN ACTION

- Endpoint gets its network details from the DHCP server

- **Endpoint asks the DNS server to locate the registry service(s)**

- Endpoint registers itself with the registry service

- Endpoint periodically checks in with the registry

- Endpoint updates its registration if anything changes

- All these operations are standard IP transactions that work over management or media networks

Routing Controller A

Routing Controller B

DHCP Server

DNS Server

AMWA IS-04 Registry/Query Service

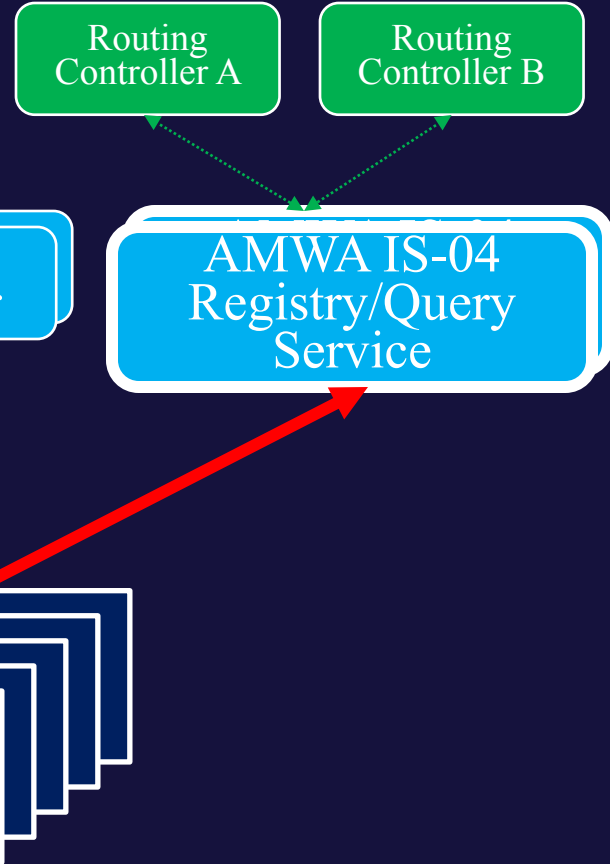IP ENDPOINT camera, server, gateway, etc.

AMWA IS-04 REGISTRY IN ACTION

- Endpoint gets its network details from the DHCP server

- Endpoint asks the DNS server to locate the registry service(s)

- **Endpoint registers itself with the registry service**

- **Endpoint periodically checks in with the registry**

- **Endpoint updates its registration if anything changes**

- All these operations are standard IP transactions that work over management or media networks

Routing Controller A

Routing Controller B

DHCP Server

DNS Server

AMWA IS-04 Registry/Query Service

IP ENDPOINT camera, server, gateway, etc.

AMWA IS-04 REGISTRY IN ACTION

- Endpoint gets its network details from the DHCP server

- Endpoint asks the DNS server to locate the registry service(s)

- Endpoint registers itself with the registry service

- Endpoint periodically checks in with the registry

- Endpoint updates its registration if anything changes

- All these operations are standard IP transactions that work over management or media networks

Controllers can query the registry to find devices and track changes

Routing Controller A

Routing Controller B

DHCP Server

DNS Server

AMWA IS-04 Registry/Query Service

IP ENDPOINT camera, server, gateway, etc.