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
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Controllers can query the registry to find devices and track changes

DHCP Server

DNS Server

AMWA IS-04 Registry/Query Service

Routing Controller A

Routing Controller B

IP ENDPOINT camera, server, gateway, etc.