What is this about?

- New functionality:
  - Define searches by handle and by name for both IP ranges and ASNs
  - Define a new link relation that can be used to get the more-specific objects for a given IP range, ASN range, or domain
  - Document how reverse search can be used for IP addresses and ASNs
- By implementing this functionality, an RIR RDAP service operator will reach feature parity with existing RIR Whois services
  - RDAP becomes a complete alternative to Whois
IP/ASN search by handle/name

/ips?handle=...

/ips?name=...

{ "ipSearchResults":
  [ { "handle": "...",
      "startAddress": "...",
      ...
    },
    ...
  ]
}

/autnum?handle=...

/autnum?name=...

{ "autnumSearchResults":
  [ { "handle": "...",
      "startAutnum": "...",
      ...
    },
    ...
  ]
}
Link relations for more-specifics

```json
{
   "handle": "...",
   "startAddress": "192.0.2.0",
   "endAddress": "192.0.2.255",
   "links": [
       {
           "rel": "down",
           "href": ".../192.0.2.0/24"
       }
   ]
}

{
   "ipSearchResults":
   [
       {
           "startAddress": "192.0.2.0",
           "endAddress": "192.0.2.7",
           ...
       },
       {
           "startAddress": "192.0.2.16",
           "endAddress": "192.0.2.31",
           ...
       },
       ...
   ]
}
```
Why link relations for more-specifics?

- Simpler interface
  - Less chance for things to go wrong or for clients to make incorrect inferences about what is happening

- More flexibility on the server side with respect to implementation
  - Can implement as in-band search operation, or can pregenerate result sets
Next steps

• Request adoption
• Get input from subregional registries
• Consider extension identifier/prefix issue
• More implementations