i2aex BoF Follow-up
Today

Applications (CDN, DC)

SNMP
EGP / IGP
ICMP
SSH
Goal

Applications (CDN, DC)

I2AEX

SNMP

EGP / IGP

ICMP

SSH

(?)

Applications (CDN, DC)
Starting Point

Dynamincity
Accuracy
Confidentiality
Scalability
Accessibility

SNMP
ECN
EGP / IGP

ALTO
ALTO i2aex Extensions

• New information types
  – Network load
  – Resource availability
  – ...

• Server-to-client notifications

• Incremental updates
Incremental updates

• draft-pbryan-json-patch (APPSAWG item)
ALTO Information

```
{
"resources": [
{
"capabilities": {
"cost-modes": [
"numerical"
],
"cost-types": [
"routingcost"
]
},
"media-types": [
"application/alto-costmap+json"
],
"uri": "http://alto.ietf.org/costmap/num/routingcost"
},
...
```

```
{
"meta": {},
"data": {
"cost-mode": "numerical",
"cost-type": "routingcost",
"map-vtag": "1266506139",
"map": {
"mypid1": { "mypid1": "0", "peerpid2": "10", "pid3": "20"},
...
```

```
New Information Types

... "media-types": [
    "application/alto-costmap+json",
  ],
  "uri": "http://alto.ietf.org/costmap/num/routingcost"
},
{
  "media-types" : [
    "application/alto-serverload+json"
  ],
  "uri" : "http://alto.tilab.com/serverload"
},
...

... "server1": {
  "lastmin" : "0.7",
  "last5min" : "0.3",
  "last15min" : "0.2"
},
...
Server-to-client Notifications

- HTTP polling?
- Websockets?
- ALTO-over-XYZP?

"media-types": [
    "application/alto-costmap+json"
],
"uri": [
    "http://alto.ietf.org/costmap/num/routingcost",
    "xyzp://alto.ietf.org/costmap/num/routingcost"
],
...
Next Steps

• Make yourself known if interested
• Write down concrete proposals
  – Discussion in i2aex
• Comment on other concrete proposals

And possibly...
• Rechartering?
• New WG?