

Discussion on 1/12/15:

- Dan to make proposal for the ranking of static fields and send to Core WG mail list by Thurs.
- Binita to communicate ordering in email and attach her spreadsheet

Actions from meeting held on 1/8/15:

- Marcello: Come up with a proposal for how dynamic information would be encoded in the weight field for DNSSD
- Binita: Clarify definition of mobility and availability and call out the fact that they could be combined
- Marcello and Dan/Dave: Clarify the node type – need further discussion – wired vs wireless topology/link cost
- Chris: Set up a call for early next week either Monday at 11am PT

Summary by MSFT on 12/12/14

I will summarize below our discussion – please correct if needed. If you guys are ready to discuss these issues further, today or tomorrow would work for me. I will be out on vacation starting on Monday, and back to work starting on 12/22.

1. We at MS feel strongly that the standard DNS-SD Priority field should be used, instead of using a new AllJoyn-specific sender-info TXT field
 - a. QCE folks, did I convince you?

[Lioy, Marcello] Yes

2. MS folks feel that a simple formula similar to “65535-(B2*10000)-(C2*1000)-(D2*3000)+(E2*7000)+F2+G2+H2” is preferable to Binita’s more complex formula below.
 - a. QCE folks, did I convince you?

[Lioy, Marcello] No – we need to discuss more

3. QCE and MS agree that Mobility and Availability should be kept separately.
4. QCE folks would know better than me if older 14.12, 14.06, 14.02 should really be treated using 3 different algorithms. If that’s not ***really*** needed, I suggest using just 1 algorithm for all of these older RNs (slide 10).

[Lioy, Marcello] I think this is a side effect of the version of the NS packet or the fields that the messages contain – the versioning is a short hand for that.

5. I mentioned below that I wanted to discuss the weights from slides 6/7, so here it is:
 - a. QCE proposal:
 - Mobility weight = 3/10
 - Availability weight = 3/10
 - Node Type weight = 3/10
 - Power source weight = 1/10
 - b. MS proposal:
 - **Power source weight:** much higher than the other three characteristics
 - An AC powered RN should ***always*** be picked before any battery-powered RN
 - That’s the meaning of (B2***10000**) from the straw man formula
 - **Node Type weight:** used just as a tie-breaker for RNs having identical **Power source**
 - That’s the reason for (E2***7000**)

- An Access Point should always be picked before another type of device
- Wired Ethernet should be ranked next
- Wireless RNs are ranked last
- **Mobility weight:** used as a tie-breaker for RNs having identical **Node Type**
- **Availability weight:** used as a tie-breaker for RNs having identical **Mobility**
- **Dynamic Rank (DRNK):** used as a tie-breaker for RNs having identical **Availability**
 - Calculated similar to: $F2+G2+H2$

[Lioy, Marcello] We need to discuss this. There is a reason we chose the weightings that we did. Do we want to have a follow up technical call in the new year, since you are out next week, and most of the key players will be out the 22nd – 3rd?