CDNi Control –
Initialization and Bootstrapping
draft-choi-cdni-control-init-bootrapping-02.txt

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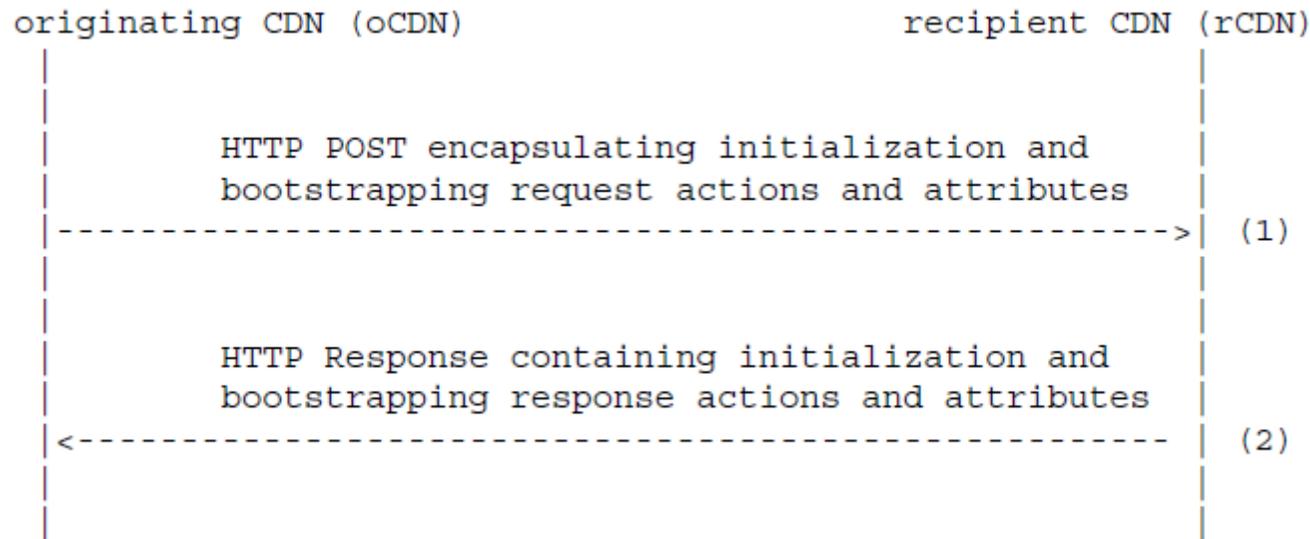Yonghwan Bang (yhhvyp@gmail.com)

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CDNi WG

Comments made for -01 version in 87th IETF

- Triggers model for Bootstrapping Interface was considered too complicated

- Suggestions proposed by the WG

  – Simple HTTP-based REST interface was preferred

  – Comments from Control Interface – Triggers authors as following:

    - The aim of this part of the Control interface is for one CDN to find out how to talk to another one, including which URLs it should use to find RI/MI/FCI, which acquisition protocols it support etc etc... it's about "getting" info from the other CDN.

    - The triggers interface is designed for one CDN to ask the other to do something... it's about "putting" a request into the other CDN.

    - To be aligned with the other interfaces, the properties should probably live in JSON format be fetched over http(s), and should have cache-control settings that make sure the other CDN regularly refreshes it in case things change. I can't spot any req's that wouldn't be met by this much simpler interface.

Changes made for this Meeting

- We changed Triggers-based Bootstrapping interface into HTTP-based simpler interface as following:

```
originating CDN (oCDN)                          recipient CDN (rCDN)
   |                                                   |
   |                                                   |
   |      HTTP POST encapsulating initialization and   |
   |      bootstrapping request actions and attributes |
   |-------------------------------------------------->|  (1)
   |                                                   |
   |                                                   |
   |      HTTP Response containing initialization and  |
   |      bootstrapping response actions and attributes|
   |<--------------------------------------------------|  (2)
   |                                                   |
   |                                                   |
```

- We defined Information Elements and associated JSON encoding for this interface
  - ActionType, General, Contract, EndPoints, Protocols, Fp_cap, Cdmd, AbsoluteTime, ActionStatus

- We defined Example Use Cases for this interface
  - Discover, Negotiate, Initialize, Add, Update, Remove

Summary

- Any comments or suggestions for improvements are invited

- For next step, we would like to request for WG document consideration in the next IETF