draft-ellacott-historical-rdap

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Purpose

- Allow for historical data to be provided via RDAP
- Useful for:
  - Transfer recipients
  - Disputants
  - Law enforcement
  - Researchers
history object class

• Contains a list of records
• Each record in turn contains:
  – content
    • A standard RDAP object
  – applicableFrom
  – applicableUntil
    • Two datetime fields describing the period for which the object was current
Example

```
{
  "rdapConformance": [ "history_0", ... ],
  "notices": [ ... ],
  "records": [ ... ]

  {   "applicableFrom":  "2010-12-17T01:17:46Z",
      "applicableUntil": "2011-03-09T06:01:50Z",
      "content": {
          "objectClassName": "autnum",
          "handle": "AS4608",
          "entities": [ { "handle": "NO4-AP", ... } ],
                        { "handle": "HM20-AP", ... } ] },

  { "applicableFrom":  "2011-03-04T06:01:50Z",
      "content": {
          "objectClassName": "autnum",
          "handle": "AS4608",
          "entities": [ { "handle": "NO4-AP", ... },
                        { "handle": "HM20-AP", ... },
                        { "handle": "IRT-APNIC-AP", ... } ] }
    },
    ...
}
```
Specific handling for IP ranges

- IP ranges may be split or aggregated over time
- To simplify logic, the history records for all intersecting ranges are returned
Security considerations

• Obvious privacy implications over and above standard RDAP service

• Possible options
  – Omit sensitive fields: RDAP permits the omitting of arbitrary fields from responses
  – Limit access to authenticated parties (RFC 7481, draft-hollenbeck-regext-rdap-openid)
Services and implementations

- https://rdap.apnic.net/history/
- https://github.com/APNIC-net/whowas-service
- https://www.apnic.net/static/whowas-ui
Open topics

- Review and feedback
- Redirections to other registries?
- Special handling or considerations for forward domains?
- Not looking for adoption yet