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