

draft-loffredo-regext-rdap-verified-contacts

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What & Why - recap

- Allows verification status information to be included in the RDAP response
 - email, phone, postal address, name etc.
- Verification of domain registration data may be required due to compliance requirements or legislation (i.e. EU NIS2 directive)
- Some legislations may require publication of verification status – either on open RDAP, or on gated access RDAP system
- Standardisation will help avoid fragmentation

Changes in -03

- verifiedContacts_data structure aligned with OIDC Verified Claims specification:
 - One verification may refer to one or more claims (previously: one)
 - Method broken down into 2 fields: “method” + “evidence”
 - Added “trustFramework” identifier
 - Added “extension” element (empty in base spec) for extensibility
 - Elements mentioned above have value list represented in RDAP JSON Values Registry with initial set of registered values and extensible
 - Added “remarks” element

Example

```
{
  "objectClassName": "entity",
  "handle": "ABC123-EXAMPLE",
  "rdapConformance": ["rdap_level_0", "verifiedContacts"],
  "...": "verifiedContacts_data":
  {
    [
      {
        "claims": ["name", "address"],
        "verificationDate": "2025-03-15T12:00:00Z",
        "trustFramework": "eidas",
        "verifierId": "Registro.it",
        "verificationId": "verif-20250315-0001",
        "evidence": "idcard",
        "method": "auth"
      },
      {
        "claims": ["email"],
        "verificationDate": "2025-03-10T09:30:00Z",
        "trustFramework": "registro.it",
        "verifierId": "Registro.it",
        "verificationId": "verif-20250310-0001",
        "method": "reachability",
        "remarks": [
          {
            "description": [
              "E-mail verification embedded
              in onboarding process."
            ]
          }
        ]
      }
    ]
  },
  "...": "..."
}
```

Claims – which data element?

- "email": E-mail address.
- "phone number": Voice phone number.
- "fax": Fax phone number.
- "address": Address.
- "name": Entities full name.
- "given name": Given name or first name of the entity.
- "family name": Surname or last name of the entity.
- "birthdate": Date of birth.

Trust Framework

- "eidas": The verification has been conducted in accordance with the EU regulation No 910/2014 (eIDAS).
- "private": The verification has been conducted in accordance private policy framework of server operator.

Evidence – what was verified?

based on Documents, Electronic records and Vouches defined in OpenID

- "idcard": An identity document issued by a country's government for the purpose of identifying a citizen.
- ...
- "birth certificate": Official document certifying the circumstances of a birth.
- "utility statement": Statement from a recognized utility provider.
- "address database": Information from a reliable address database.
- ...

Method – how it was done?

based on Check Methods defined in OpenID

- "vpip": Validation that physical evidence is genuine through inspection of its physical properties in person.
- "pvr": Physical verification by a qualified/authorised person when the user is remote, the comparison of a physical characteristic (such as face) from an image or video of the user with a known image/template of the owner of the claims.

...

Combining Evidence + Method

Same evidence, different methods:

- "idcard" + "vpip" – ID document verified in person
- "idcard" + "pvr" – ID document verified with video identification

Same method, different evidences:

- "idcard" + "vpip" – ID document verified in person
- "birth certificate" + "vpip" – Birth certificate verified in person

... just a few examples

RDAP JSON Values – new types

- verified contact claim
- verified contact method
- verified contact evidence
- verified contact trust framework
- verified contact extension

Question from IANA – shall we consider breaking down RDAP JSON Values registry per type, or have a separate registry with type, reference to document defining this type, maybe different registration procedures or DEs?

Next steps

- Authors consider the document is ready
- WG adoption?

Thank you

