jscontact

IETF 114 Calendaring Extensions.
RFCs

- draft-ietf-calext-jscontact-03
- draft-ietf-calext-jscontact-vcard-02
- draft-ietf-calext-vcard-jscontact-extensions-00
Changes

• Clarify that Id values must persist across Card versions

• Define property `onlineServices`, rather than using generic resources:
  ```javascript
  {
    "service": "Github",
    "uri": "https://github.com/rsto",
    "username": "rsto"
  }
  ```

• Extend VCARD with new RFC draft-ietf-calext-vcard-jscontact-extensions
  • `CREATED, GRAMMATICAL-GENDER, LOCALE, PRONOUNS, ...`
Map label property

JSContact label property

• Allows to set human-readable labels on almost anything, be that an address, phone number, etc.

VCARD RFC 6350

• Defines LABEL parameter for ADR, containing the delivery address. Curiously, the parameter is not registered at IANA.

• Obsoletes LABEL property of RFCs 2425 & 2426 (also used for delivery addresses).
Map label property (cont.)

Apple Addressbook

- Introduced X-ABLLabel property 2007 or earlier, using property groups for custom labels.

```plaintext
item2.ADR;type=WORK;;2 Example Avenue;Anytown;NY;01111;USA
item2.X-ABLLabel:My label
```

Also see [https://www.w3.org/2002/12/cal/vcard-notes.html](https://www.w3.org/2002/12/cal/vcard-notes.html)

- Discusses X-ABADR, X-ABShowAs, X-ABLLabel, x-abrelatednames
Map label property (cont.)

Should we reuse X-ABLabel?

• Interoperates with existing implementations. But Apple clients UI seem to expect very short labels, like “phone”, “other”.
Property groups

We can preserve VCARD property groups using a custom property:

```
group1.EMAIL:jane_doe@example.com
group1.TEL:tel:+1-01-23-45-6
TEL:tel:+99-06-54-32-1
```

Do we want to provide property groups as feature in JSContact, too?
VCARD features not available in JSContact

PID and CLIENTPID properties

- Used to synchronize writes on the VCARD
- Anyone using it even?

DATE, TIME types

- Not used by any property?
- JSContact does allow DATE-AND-OR-TIME type for anniversaries, including partial dates
- But TIME-only birthday makes sense?

We still can preserve them for the VCARD, though!
RFCs

- draft-ietf-calext-jscalendarbis-00
- draft-ietf-calext-jscalendar-icalendar-07
- draft-ietf-calext-icalendar-jscalendar-extensions-00
Changes

jscalendarbis

• Mostly low-impact changes so far. Main ones for discussion today.
• See https://notes.ietf.org/fKSwTLqCR7yhiCtFSnsPiQ?view

jscalendar-icalendar

• Define standard mapping for unknown properties (section 5 and section 7)

icalendar-jscalendar-extensions

• Define new iCalendar properties to align with JSCalendar
Scheduling properties

jscalendar (RFC 8984) scheduling properties:

**replyTo**: used to send RSVPs to (section 4.4.4). Non-empty subset of

```
{
    "imip": "mailto:foo@example.com",
    "web": "https://example.com/rsvp?id=13213",
    "other": "ldap://ldap.example.com/cn=John%20Doe"
}
```

**Participant.endTo**: used to send invites to (only allows imip and other)
Scheduling properties (cont.)

Issue:

- JSCalendar uses multi-valued scheduling methods using URIs
- iCalendar only allows single-valued ORGANIZER and ATTENDEE.
- The de-facto scheduling method is iTIP over iMIP. But standard does not require mailto: URI in ORGANIZER or ATTENDEE.
- Mapping `sendTo{imip, other}` to ATTENDEE requires to choose which URI goes into the iCalendar property value.
- No standard place to store the second URI value in iCalendar.
- No place to store web method URIs for replyTo in iCalendar.
Scheduling properties (cont.)

Options:

1. **Keep JSCalendar multi-valued.** Define heuristic how to map to iCalendar
   
   • E.g.: “If imip is defined, use it for ATTENDEE. Put other somewhere else.”
   
   • Lossy, if original iCalendar data used non-mailto URI and imip got added to JSCalendar event.
   
   • Need to update heuristic for any new scheduling method that comes up.

2. **Merge other and imip methods into itip method.** This is now the URI that allows goes into ORGANIZER and ATTENDEE.

3. **Split into separate properties,** e.g. itipSchedulingAddress, webReplyTo
sentBy property

JSCalendar top-level sentBy property

• “The email address in the "From" header of the email in which this calendar object was received.”

iCalendar SENT-BY parameter (on ATTENDEE)

• “To specify the calendar user that is acting on behalf of the calendar user specified by the property.”

These are two different things!

• Rename “sentBy” to “sentFrom”?

• Need new SENT-FROM property in iCalendar?

• Need new Participant.sentBy property for SENT-BY parameter?
Vendor extension naming scheme

RFC 8984 definition

- “Names of these properties MUST be prefixed by a domain name controlled by the vendor followed by a colon”.

  example.com:customprop

Issue

- Domain name not enough, e.g. have no controlled domain for standard mapping between JSCalendar and iCalendar properties.
Vendor extension naming scheme (cont.)

Change

• Properties names must be URIs, allowed schemes are
  • https: should point to documentation of the property
  • urn: name must be in the ietf namespace

"https://example.com/jscalender#prop1": "foo",

"https://example.com/jscontact": {
  "prop1": "foo"
}

"urn:ietf:rfcXX#prop/x-foo": "bar"
Handling unknown properties

- At IETF113 we said implementations must not reject JSCalendar objects, if they contain unknown (not vendor-extended) properties.
- Turns out, RFC 8984 did not specify anything, either to reject or keep.
- Let’s clearly define how to handle this in jscalendarbis.
Handling unknown properties (cont.)

Option 1: Validate known properties, ignore but store unknown properties

- This is what iCalendar does with allowing “iana-props” almost everywhere

- How to avoid name-squatting? Vendor A uses same (unregistered) name like later RFC:

  Vendor A: `{ “propA”: 123 }` Later RFC: `{ “propA”: “foo” }`

- Encourage registration: RFC8984 IANA registration is Expert Review policy (e.g. must document property, but no format specification required). That is low barrier to define standard entries already.
Handling unknown properties (cont.)

Option 2: Reject unknown properties, only allow vendor-extensions

• All properties in a JSCalendar object are vendor-extended, but the ones defined in jscalendarsbis are implicitly extended as “urn:ietf:rfc8984”.

• Every property self-documents where it is defined at.

• Increases payload size, but can be mitigated with complex types

  “https://example.com/jscalendar#prop1”: “foo”,
  “https://example.com/jscalendar#prop2”: “bar”

• No name squatting, interoperates with implementations of differing RFC support