CoRE: Problem Details

April 27th (Wednesday), 14:00-15:30 UTC

Problem Details: Concise equivalent of RFC 7807(bis)

example (RFC 7807)

Status

Concise version in progress until July 2020 Waiting for completion of CoRAL

Problem: 3GPP needs this **now** (June)

learnings

RFC 7807's type is a URI reference

Implementers get this wrong: Treating a relative reference as an absolute name:

```
"type": "out-of-credit",
```

(This would undergo URI resolution on the current base)

"bundled" approach (Carsten Bormann)

Going for registered types (as CBOR tag)
Can come with custom problem details entries (per type)

Add a registry for standard problem details entries

https://core-wg.github.io/core-problem-details/3gpp-stopgap/draft-ietf-core-problem-details.html

example (bundled)

"unbundled" approach (Thomas Fossati)

No type at all Add a global registry for custom problem details entries (works best if these are maps as well)

A bit like CWT

example (unbundled)

```
{ / no problem type given /
  -1 /title/: "You do not have enough credit.",
  -2 /detail/: "Your current balance is 30, but that costs 50.",
  -3 /instance/: "/account/12345/msgs/abc",
  471112 /out-of-credit-balance/: 30,
  470017 /available-accounts/: ["/account/12345",
                                "/account/67890"]
 / 471112 and 470017 are the "custom problem detail entry keys"
   registered by example.com /
```

```
{ / no problem type given /
  -1 /title/: "You do not have enough credit.",
  -2 /detail/: "Your current balance is 30, but that costs 50.",
  -3 /instance/: "/account/12345/msgs/abc",
 4711 /example.com out-of-credit custom problem detail key/ : {
    0 /out-of-credit-balance/: 30,
    1 /available-accounts/: ["/account/12345",
                             "/account/67890"]
        0 and 1 are internal to example.com's 4711;
        they don't need registering /
                                 / nesting another map /
```

```
{ / no problem type given /
  -1 /title/: "You do not have enough credit.",
  -2 /detail/: "Your current balance is 30, but that costs 50.",
  -3 /instance/: "/account/12345/msgs/abc",
  "tag:example.com,2022:out-of-credit" : {
    0 /out-of-credit-balance/: 30,
    1 /available-accounts/: ["/account/12345",
                             "/account/67890"]
      / 0 and 1 are internal to example.com's 2022:out-of-credit;
        they don't need registering /
                                 / look, ma, no registering /
```

```
{ / no problem type given /
  -1 /title/: "You do not have enough credit.",
  -2 /detail/: "Your current balance is 30, but that costs 50.",
  -3 /instance/: "/account/12345/msgs/abc",
  "http://example.com/account/pd": {
    0 /out-of-credit-balance/: 30,
    1 /available-accounts/: ["/account/12345",
                             "/account/67890"]
  "http://example.com/common/pd": {
    0 /pid/: 24153,
    1 /process name/: "acctd",
                                 / composition example /
```

can we get this done this week?