## CoRE: Problem Details

May 10th (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)

→ draft-ietf-core-problem-details-03 (2022-05-06)

## "unbundled" approach (Thomas Fossati)

Do not mirror 7807's "type" Add a global registry for custom problem details entries (works best if these are maps as well)

A bit like CWT Combining multiple custom problem details entries: ~ Multiple inheritance

## example (unbundled)

```
-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 /
```

### tunneling

Register CPD 7807 as:

```
tunnel-7807 = {
   ? &(type: 0) => ~uri
   ? &(status: 1) => 0..999
   * text => any
}
```

(inverse direction waiting for 7807bis, probably with some base64-encoded CBOR)

 $\rightarrow$ 

#### **Tag 38**

Tag 38: registered to do:

```
38(["en", "Hello"])
```

Missing out on base-direction (ltr/rtl)!

```
[38(["he", "שלום", true])
```

https://www.w3.org/International/questions/qa-direction-from-language.html

https://www.w3.org/TR/international-specs/#text\_direction

#### Tag 38 update proposal:

(1) define new tag for direction
(2a) define new tag "N38" like below, similar to 264 vs 4
→ (2b) fix up 38 to be like below