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

Problem Details:
Concise equivalent of RFC 7807(bis)
example (RFC 7807)

```json
{
    "type": "https://example.com/probs/out-of-credit",
    "title": "You do not have enough credit.",
    "detail": "Your current balance is 30, but that costs 50.",
    "instance": "/account/12345msgs/abc",
    "balance": 30,
    "accounts": ["/account/12345",
                  "/account/67890"
    ]
}
```
Concise version in progress until July 2020
Waiting for completion of CoRAL

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

example (bundled)

/ 4711 is the registered CBOR tag for example.com's problem type /
4711({ 
/ type → example.com's out-of-credit problem /

-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",
12 /balance/: 30,
17 /accounts/: ["/account/12345",
    "/account/67890"]

/ 12 and 17 are the "custom problem detail entry keys" defined for 4711 /
})
"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)

```json
{
   / 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/12345msgs/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 /
}
```
{ 
-1 /title/: "You do not have enough credit."
-2 /detail/: "Your current balance is 30, but that costs 50."
-3 /instance/: "/account/12345msgs/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/12345msgs/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/12345msgs/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?