November 8th, (Tuesday), 1500-1600 UTC
draft-ietf-sedate-datetime-extended-06

— Document has converged
— Problem with RFC 3339 found
— Hard to discuss this problem
What RFC 3339 is

Text format for [utctime, ? localoffset]
Profiling ISO 8601:1988 for that (Y2K, unnecessary choices)
(The local offset is a hint once the decoding is done)

An RFC 3339 timestamp is always rooted in a UTC time
• (no "floating times").
optional "local offset" is "often useful information".
• opt out using -00:00 as local offset
What SEDATE is

"IXDTF": Adding extensions to RFC 3339 timestamps

— semantics of RFC 3339 remain unchanged
— time zone hint adds named timezone [Europe/Berlin] to existing local offset (+01:00)
— keys for other options ([key=value]) can be registered
— options can be critical ([!key=value]), must understand
Are we done yet?

Yes.
Are we done yet?
Yes. But.
The problem

- RFC 3339 defines:
  - Z and +00:00: synonyms for local offset 0
  - -00:00: no local offset given (cf. RFC 2822 email date)
- Implementations tend to read:
  - Z: "no time zone offset given"
  - +00:00: local offset 0
- ISO 8601 versions since 2000 do not allow –00:00 — never written
Confusion

We already need to cope with conflicts between
• RFC 3339 offset and
• timezone hint

Temporal interprets Z + [Timezone] as RFC3339 –00:00
#19 has a survey of various RFC3339-incompatible
platform time data types
Options

1. ignore problem; feign ignorance

2. do the right thing
Radical Proposal

Should we start to interpret Z as \(-00:00\), leaving \(+00:00\) for RFC 3339's Z/+00:00 semantics?

— Seems to mirror the consensus in the implementations
— Goes outside the charter of SEDATE
— Needs discussion beyond SEDATE WG
2022-10-04:
Sent message to ART; CC: SEDATE, CBOR, NTP, TICTOC

<https://mailarchive.ietf.org/arch/msg/tictoc/K1tNGj0agyaLOZ1AiiPEJE8aBU>

(also about CBOR time tag, which is starting to provide a binary version of SEDATE extensions)
What people wanted to discuss

— IETF standards should not reference non-free standards normatively
— the need for floating times (or their impossibility)
— sub-minute Timezone Offsets
— calendaring issues
— unstable politicians and Timezone definitions
next steps

— Consider the discussion done
— Check with AD/IESG whether we can extend charter, to

— fix RFC 3339