

SEDATE: IXDTF

March 30th, (Thursday), 0730–0830 UTC
draft-ietf-sedate-datetime-extended-07

- Submitted to IESG 2023-01-19
- Document now has AD review (2023-03-21) → –08 needed
- Shepherding AD changed to Murray Kucherawy
- Solving problem with RFC 3339 needs charter change

AD Review (Francesca)

- Editorial (log/abstract, TAI expansion)
- MUST NOT on sending erroneous; explain treatment
- IANA expert guidelines needed
- stability of CLDR reference

Justin Grant has jumped in with a PR (thank you!).
This needs to be verified by the editors.

Github issues/PRs

- Justin Grant has provided PR #35 with many small improvements
- Several issues (#25, #28, #31, #33) from 2022/2023 call for minor improvements

Now have opportunity to roll them in.

Need reviews when editors have integrated the PR/Issue resolutions.

Plan

Address AD comments
Integrate github issues/PRs
Ship –09 → 🐇

Backup slides

What RFC 3339 is

Text format for [utctime, ? localtime]

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

The Mail

2022-10-04:

Sent message to ART; CC: SEDATE, CBOR, NTP, TICTOC

<https://mailarchive.ietf.org/arch/msg/tictoc/K1tNGj0agyraL0Z1AiiPEJE8aBU>

(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**