

Time Zones

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Current State

- Many OS's, calendar products, rely on Olson TZ Data:
 - zoneinfo on unix, linux, Mac OS X systems
- * TZ Data is an "ad-hoc" operation hosted on an NIH server and managed by a few individuals, based on mailing list input
- There is no guarantee on the longevity of this service
- Other vendors maintain their own TZ Data (e.g., Windows registry)

Who cares about this?

- Everyone all our devices (desktops, mobile, embedded) use time zone data.
- This covers many areas not just calendaring and scheduling products (e.g. airline schedules, building management systems, etc).

Time Zone Problems

- From a Calendaring & Scheduling standpoint we have seen many interoperability problems related to time zones:
 - Different definitions used by different products
 - Failure to properly update when rules change
 - Failure to update in a timely fashion when changes occur

More...

Time Zone Problems

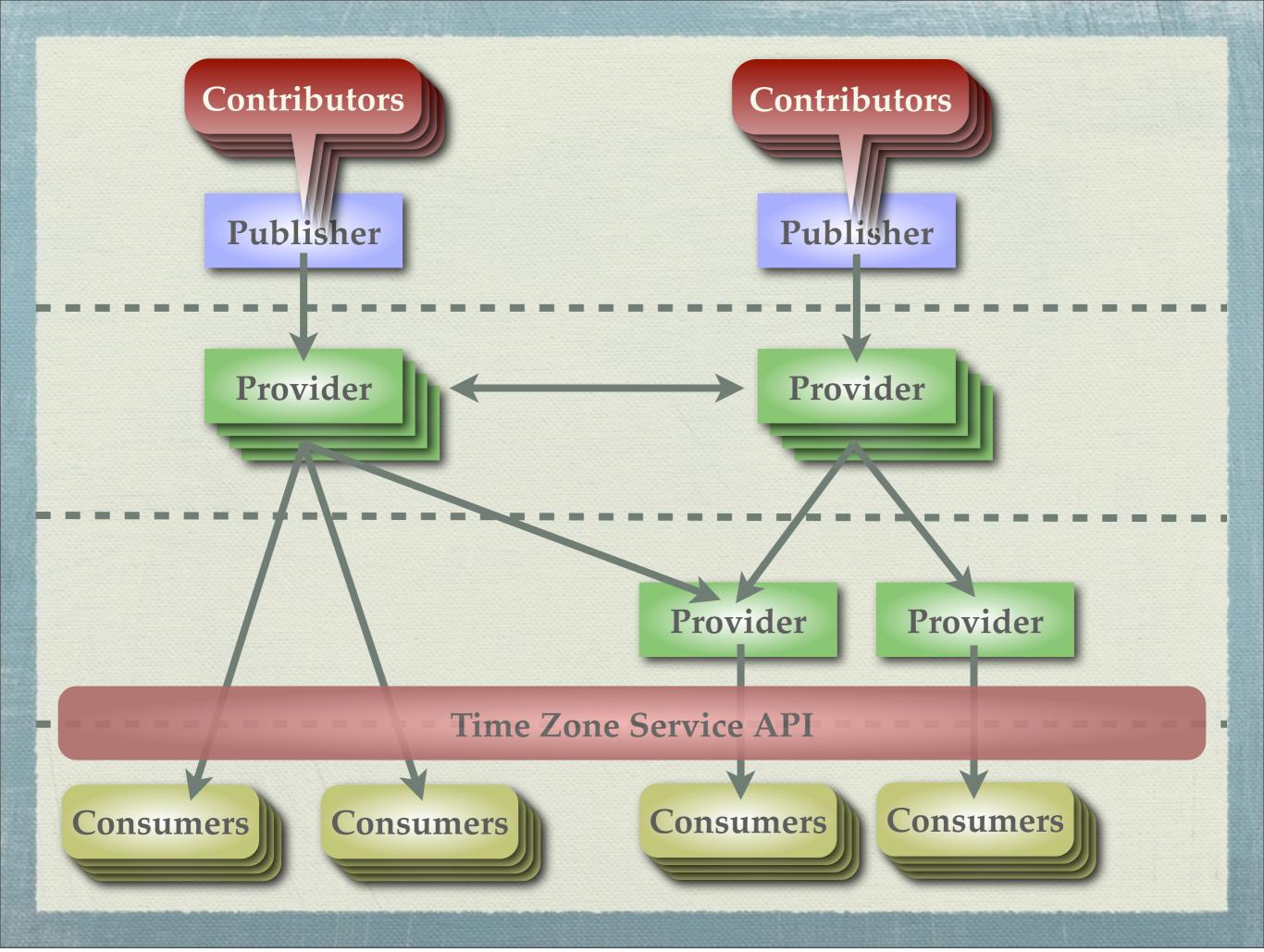
- From an OS standpoint:
 - Many copies of zoneinfo on the same system often versions do not match
 - Updates only done as OS patches cannot respond fast enough to changes

Ongoing Work

- The Calendaring & Scheduling Consortium (CalConnect) has a Technical Committee working on these issues
- Their goal is to develop a set of draft proposals for submission to the IETF
- Recent Time Zone Workshop took place during CalConnect Roundtable event in February, hosted by Microsoft
- * Key vendors are involved in this effort

Proposed Solutions

- 1. Create IANA Time Zone Registry for Publishers of TZ data
- 2. Define a Time Zone Service protocol so standard TZ data can be distributed from Providers to Consumers
- 3. Work out a plan of succession for Olson data host mailing list and ftp archive on a well established site perhaps ISOC?
- 4. Make sure time zone data is "secure" digital signatures



Summary

- We want a long term solution for time zone data
- Must be secure, reliable, and timely
- Registry for publishers so source of data can be relied on
- Internet-wide time zone service to make distribution simple and fast and scaleable
- Promote common apis and libraries for accessing and managing the data