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Introduction to CalConnect: The Calendaring and Scheduling Consortium

Dave Thewlis

Executive Director

The Calendaring and Scheduling Consortium

*CalConnect is a Service Mark of The Calendaring and Scheduling Consortium

- CalConnect Overview
- CalConnect Technical Committees
- Where are we going?
- References
- Questions

■ Calendar

- ◆ A collection of events, tasks, journal entries, etc. Examples include a person's or group's schedule, resource availability, and event listings.

■ Scheduling

- ◆ The exchange of request/invitations and responses between organizers and attendees of scheduled events, tasks or journal entries.

■ CalConnect

- ◆ The Calendaring and Scheduling Consortium, consisting of vendors and customers interested in promoting and improving calendaring and scheduling standards and interoperability.

Establishment of CalConnect

■ CalConnect was founded in January of 2004 to promote interoperable Calendaring and Scheduling

“The driving premise behind the Consortium is that interoperability between calendaring programs and systems is essential to achieving the promise and future growth of calendaring.

What is CalConnect?

- An information technology consortium focused on calendaring and scheduling
- A collegial partnership between vendors and customers working towards achieving common goals of interoperability and functionality

The Vision

“Our vision of the future is not only interoperable calendaring, but ubiquitous interoperable calendaring. Calendaring should—and can—be as ubiquitous as electronic mail.”

-- Dave Thewlis, CalConnect Executive Director

“Being able to schedule meetings with my work group is important. But being able to schedule an appointment with my hairdresser could change the world.”

-- Pamela Taylor, CalConnect Board Member

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CalConnect Members



CalConnect Membership List

Apple Inc.
 Cabo Communications
 California State University Fresno
 Carnegie Mellon University
 Dartmouth College
 Duke University
 Eventful
 Google
 IBM
 Icewarp
 Kerio Technologies
 MailSite Software
 Microsoft
 Mozilla Foundation
 neutralSpace
 New York University
 Oracle Corporation
 Patricia Egen Consulting

PeopleCube
 Rensselaer Polytechnic Institute
 Scalix
 Sony Ericsson
 Stanford University
 Stockholm University
 Sun Microsystems
 SWAMI (Swedish Alliance
 for Middleware Infrastrucure)
 Symbian Ltd.
 Synchronica
 Timebridge
 University of California
 University of Chicago
 University of Michigan
 University of Pennsylvania
 University of Washington
 University of Wisconsin
 Yahoo!/Zimbra

What do we do?

■ What we do

- ◆ Drive evolution of open standards for C&S
- ◆ Requirements, use cases, specifications and protocols
 - May be submitted to IETF etc. for progression to standards
- ◆ Interoperability testing
- ◆ Promote a shared vision of calendaring and scheduling

■ The organizational model of CalConnect

- ◆ All members have same rights and privileges
- ◆ Collegial, consensus environment
- ◆ Completed work products published
- ◆ Member may have unlimited participation
- ◆ Interoperability testing open to non-members

Interops (Interoperability Testing)

- ◆ Open to members and non-members
- ◆ 2.5-3 day event often co-located with Roundtable
- ◆ Results published to relevant standards development organizations
- ◆ Public reports omit some details

Roundtables

- ◆ Members' meetings of CalConnect
- ◆ Held three times per year, midway between IETF meetings
- ◆ Held in conjunction with Interops
- ◆ Technical committee working meetings
- ◆ Steering Committee meeting
- ◆ Review and status of technical committees

Technical Workshops

- Participation by members and invited guests
- Co-hosted with Roundtable or independent event
- Presentations and findings publicly available on CalConnect website

Calendaring & Scheduling Public Conference

- ◆ **Under evaluation**
- ◆ Would offer technology and product overviews, tutorials and classes, demonstrations and vendor offerings

Current Technical Committees

CALDAV

Define use cases and requirements for CalDAV; assist in development of CalDAV and CalDAV Scheduling specifications

EVENTPUB

Define event publishing & establish differences from normal calendaring and scheduling

FREEBUSY

Develop and conduct Federated Freebusy Challenge Response; Freebusy URL protocol; availability and office hours

IOPTEST

Support interoperability testing for all technical committees, develop test suites & reference implementation, publish IOP test results

iSCHEDULE

Develop Internet Scheduling Protocol (iSCHEDULE) (iTIP over HTTP) for submission as proposed standard to IETF

MOBILE

Define issues for mobile support of standards-based Calendaring and recommend extensions to standards for mobile support

TIMEZONE

Develop proposals for a formal, authoritative Timezone Registry and a Timezone Service Protocol

USECASE

Develop sets of real world use cases that can be used to validate identified functionality & testing scenarios for existing & future C&S implementations

XML

Develop XML specification for iCalendar that is fully round-trippable

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CalConnect.org

CalConnect Technical Committees

Charter

- Begin: October 2004
- Define problems CalConnect wishes to resolve with *Calendaring Extensions to WebDAV*
- Work with authors on CalDAV specifications

Projects, Topics

- Develop requirements and use cases for CalDAV (and CalDAV authors are members of TC CALDAV)
- Develop CalDAV testing matrices for TC IOPTTEST
- Develop VAVAILABILITY with TC FREEBUSY
- Support development of CalDAV Scheduling
- Extensions to CalDAV Scheduling (discovery, security)

Products

- CalDAV testing matrices
- CalDAV use cases and requirements
- CalDAV scheduling and extensions to CalDAV scheduling

Charter

- Begin: March 2005
- Define Event Publication and distinguish from regular calendaring
- Determine requirements for event publication not met by existing specifications and propose remedies

Projects, Topics

- Review of possible extensions to iCalendar to support event publication and venue information
- Develop mechanism for event “crawlers” to find and consume event information on websites, analogous to “sitemap”

Products

- VVENUE extension to iCalendar
- EVENTMAP proposal
- **RESOURCE proposal under development**

TC FREEBUSY

Charter

- Begin: May 2006
- Act as CalConnect Liaison with The Open Group for the Federated Freebusy Challenge in 2006
- Inform the work of CALDAV, REALTIME, and other TCs
- Participate in drafting the final report for The Open Group

Projects, topics

- Demo-ed a Federated Freebusy Aggregator at The Open Group meeting in July 2006
- Assist Boeing to “productize” components used in the demo as well as those being further developed by Boeing
- Standardize and simplify FREEBUSY URL
- Revisit Freebusy extensions (availability, office hours)

References

- <http://tools.ietf.org/html/draft-daboo-calendar-availability-00>
- <http://calconnect.org/publicity/060724freebusydemorelease.pdf>
- <http://calconnect.org/presentations/freebusydemo.pdf>

Charter

- Begin: October 2004
- Conduct CalConnect Interoperability Test Events and publish results

Projects, topics

- CalConnect Interoperability Test Events scheduled with each Consortium event week (i.e. together with Roundtables)
- CalConnect Virtual Test Lab (with TC MOBILE)
- iCalendar .ics stream syntax and semantics checking tool

Products

- Public and CalConnect-internal IOP test event reports
- iCalendar (.ics stream) syntax and semantics tool
- Virtual Test Lab (with TC MOBILE)

Charter

- Rechartered June 2008 (originally TC REALTIME)
- Develop proposal for Internet Scheduling Protocol (iSCHEDULE) (iTIP via HTTP)

Projects, topics

- Recommendations for Addressability, Discovery, Authentication, Authorization
- iSCHEDULE Protocol internet draft and RFC

Products

- iSCHEDULE Internet Draft
- iSCHEDULE RFC
- IOP testing matrices

Charter

- Begin: September 2005
- Identify issues related to mobile calendaring and scheduling and develop recommendations to address

Projects, topics

- Determine mobile calendaring issues and problems
- Survey mobile users about problems
- Evaluate issues with continued use of vCalendar and develop ways of moving vendors forward to iCalendar
- Mobile Calendaring Interoperability Test Suite
- Implement Mobile Calendaring IOP Test Events and Virtual Test Lab (with TC IOPTTEST)
- Mobile Calendaring Considerations for CalDAV

Products

- Report on Mobile Calendaring Questionnaires
- White Paper: Benefits of iCalendar for the Mobile Industry
- Mobile Calendaring Interoperability Test Suite
- Mobile Recurrence Interoperability Recommendations

TC TIMEZONE (Phase 2)

Charter

- Begin: May 2007
- Continue work of TC TIMEZONE by developing formal proposals based on Timezone Registry and Service Recommendations

Projects, topics

- Develop proposal for formal, authoritative Timezone Registry for submission to IETF to be published as an RFC
- Develop requirements for Timezone Registry Service
- Develop proposals for Timezone Registry Service implementations using current protocols

Products:

- ◆ Timezone Registry RFC
- ◆ Timezone Service Protocol

TC USECASE

Charter

- Begin: October 2004
- Develop use cases for calendaring and scheduling and their contextual environments
- Establish the ways that users actually want to use calendaring environments
- Establish "Minimum Interoperable Subsets" (the minimum set of functions which must be interoperable to make an implementation useful to a customer)

Projects, topics

- Recommendations on Resources in iCalendar
- Survey and use cases for groups

Products

- Min-IOP Use Cases for iCalendar
- CalDAV Use Cases (with TC CALDAV)
- Min-IOP Use Cases for Tasks
- Calendaring and Scheduling Glossary of Terms
- Recommendations for Resources
- Analysis of "group" implementations

Charter

- Begin: February 2008
- Develop two-way reference mapping between iCalendar and

Projects, topics

- Round-trippable reference mapping between iCalendar and XML such that same iCalendar input produces same XML result
- Mapping such that iCalendar or XML input can be round-tripped without losing or changing content

Products

- XML Reference Mapping and Schema
- MIME media type to transport XML version of iCalendar data
- Submission to IETF as RFC

DST AD HOC

Charter

- Begin: June 2005
- Establish CalConnect position on Extended Daylight Savings Time Proposal by U.S. Congress
- Continue DST Advisory Work

Projects, topics

- Develop CalConnect position on EDST and communicate to U.S. Congress prior to enactment of law
- Develop guidance for industry on planning for and implementing EDST Changes in March and October
- Work with TC TIMEZONE on recommendations on future of timezone and DST support

Products

- Extended Daylight Savings Time Advisory
- Extended Daylight Savings Time Review and Considerations
- EDST Links, Advisories and Changes
- CalConnect Reflections and Recommendations →
- **TC TIMEZONE Phase 2**

Charter

- Begin: October 2004 (completed February 2006)
- Identify problems with Recurrences in iCalendar
- Make recommendations to IETF CALSIFY effort (revision of RFC 2445 iCalendar)

Projects, topics

- Questionnaires to determine problems with recurrence in implementations of iCalendar
- Develop problem statement and recommendations

Products:

- Results from Recurrence Questionnaire
- iCalendar Recurrence Problems and Recommendations

TC TIMEZONE (Phase 1)

Charter

- Begin: October 2004 (completed February 2006)
- Identify problems with timezone usage in iCalendar and timezone support in genera

Projects, topics

- Conduct survey on problems with timezone management
- Develop problem statements and recommendations for IETF CALSIFY effort for iCalendar

Products:

- Timezone Questionnaire
- Report on Timezone Questionnaire
- Timezone Problems and Recommendations
- Timezone Registry and Service Recommendations

vCard Ad Hoc

Charter

- Begin: January 2007
- Determine interest in and support for revision of vCard standard

Projects, topics

- vCard Workshop planning and implementation
- Liaisons with OMA/DS on interest in vCard Revision
- Recommendation on establishment of vCard TC

Products

- vCard Workshop (September 2007)
- Recommendation not to establish separate vCard TC
- Influenced initiation of vCard/CardDAV working group in IETF

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Where are we going?

Future Directions

- Diverse calendaring specifications and tools
 - ◆ Rationalize to achieve interoperability and synergy
- Calendaring libraries and APIs
 - ◆ Assist implementations
 - ◆ Support interoperability
- Calendaring as a Platform
 - ◆ E.g. Project Management, Appointment Systems
- Calendaring Infrastructure and types
 - ◆ E.g. enterprise, federation, services, ad hoc
- Timezone Registry and Service Protocols
 - ◆ Complete and drive to adoption

Future Directions

■ Mobile Calendaring

- ◆ Increasing focus on mobile in ICT and computing infrastructure and technologies
- ◆ Catapult mobile calendaring into 21st Century

■ Participation in new areas

- ◆ Vertical industry focus (e.g. mobile operators)
- ◆ Government and private industry focus and requirements

■ European Presence for CalConnect

- ◆ >20% of members are European
- ◆ New companies and products
- ◆ Focus on mobile and calendar integration
- ◆ How do we make this a reality

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References

■ CalConnect Web Site

- ◆ <http://www.calconnect.org>

■ CalConnect Published Documents

- ◆ <http://www.calconnect.org/aboutproducts.shtml>
 - Questionnaires
 - Recommendations
 - Use Cases and Requirements
 - Mobile Interoperability Test Suite
 - Calendaring and Scheduling Glossary of Terms
 - Event Reports
 - vCard Workshop Report

■ Other Resources

- <http://www.calconnect.org/calendaringstandards.shtml>
- <http://www.calconnect.org/presentations.shtml>
- <http://www.calconnect.org/dstdocs.shtml>

- Website: <http://www.calconnect.org>
- Contact us: info@calconnect.org
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Questions?