CalConnect TC

The Open Group Federated Freebusy Challenge Demo

Published Administrative

Warning for drafts

This document is not a CalConnect Standard. It is distributed for review and comment, and is subject to change without notice and may not be referred to as a Standard. Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

The Calendaring and Scheduling Consortium, Inc. 2006

:2006

© 2006 The Calendaring and Scheduling Consortium, Inc.

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from the address below.

The Calendaring and Scheduling Consortium, Inc.

4390 Chaffin Lane McKinleyville California 95519 United States of America

copyright@calconnect.org
www.calconnect.org

Contents

Fore	eword	.iv
1.	Why We are here	1
2.	Open Group Vendor Challenges	1
3.2.	Who We Are The Open Group CalConnect — The Calendaring and Scheduling Consortium The Presenters	1 1
4.	Chronology	2
5.	What We Will be Showing You	2
6.	Why this is Significant	2
7.	The Requirements	2
8.	Relaxed Constraints	2
9.	Architectural overview	2
10.	How we did it	4
11.	The Secret of Our Success — CalDAV	4
12.	What We Learned	4
13.	What remains to be done?	4
	endix A (informative) Open Group Demo — July 18, 2006iography	
ומום	IUYI ayiiy	🤊

:2006

Foreword

This document incorporates by reference the CalConnect Intellectual Property Rights, Appropriate Usage, Trademarks and Disclaimer of Warranty for External (Public) Documents as located at

http://www.calconnect.org/documents/disclaimerpublic.pdf.

The Open Group Quarterly Meeting location: Coral Gables, Florida

The Open Group Federated Freebusy Challenge Demo

1. Why We are here

"Increasingly in business, there is a need to schedule meetings with people (within or outside of the company) using different calendaring systems without multiple interactions and iterations, which prove to be time consuming and inefficient. What is needed is a simple mechanism to see when a group of people would be available for a meeting."

2. Open Group Vendor Challenges

A vendor challenge is a very practical way to address the blockages that prevent deployment of a new technology, and in the context of work within The Open Group, this means the deployment of a new standards-based technology.

The whole project is completed within the context of a very specific problem reported by one or more IT user organizations. This is important because it demonstrates to product vendors that there is a ready market for a solution to the problem, and encourages their active participation.

3. Who We Are

3.1. The Open Group

The Open Group is a vendor- and technology-neutral consortium, whose vision of Boundaryless Information Flow $^{\text{\tiny M}}$ will enable access to integrated information within and between enterprises based on open standards and global interoperability.

In accordance with its vision and mission, The Open Group works towards enabling access to integrated information within and between enterprises based on open standards and global interoperability.

3.2. CalConnect — The Calendaring and Scheduling Consortium

The Consortium is focused on the interoperable exchange of calendaring and scheduling information between dissimilar programs, platforms, and technologies.

The Consortium's mission is to promote general understanding of and provide mechanisms to allow interoperable calendaring and scheduling methodologies, tools and applications to enter the mainstream of computing.

3.3. The Presenters

- Wen Fang
 Sr. System Analyst
 The Boeing Company
- Mike Douglass
 Sr. Systems Programmer
 Lead architect of Bedework
- Gary Schwartz
 Director, Communications Middleware Technologies
 RPI
- Drew Garcia
 Director, Product Management
 Timebridge

4. Chronology

- 2005/Q1 Brought to the Messaging Forum by The Boeing Company and Noventum Consulting
- 2006/Q1 Messaging Forum issued Federated Free/Busy Challenge
- 2006/Q1 Representatives of Open Group brought FREEBUSY Challenge to CalConnect
- 2006/Q2 proof of concept solution sketched out at Quarterly Meeting in Washington, D.C. to be promoted as a joint project between The Open Group and the Calendaring Scheduling Consortium
- 2006/Q3 Demo of Proof of Concept Solution at Quarterly Meeting in Miami
- 2006/Q4 The Challenge final report to be published

5. What We Will be Showing You

- Requests to multiple calendar servers in multiple locations from multiple vendors for FREEBUSY information for multiple users
- Management of these requests and aggregation of requested information from web-based applications
- An interim solution which (adroitly) sidesteps some issues that will be need to addressed at some point.

6. Why this is Significant

- Major groupware applications already do this, but not in a heterogeneous calendaring environment which spans administrative and geographical domains.
- It is the first step towards solving a problem which needs to be solved.

7. The Requirements

- Uses open standard protocols
- Can be implemented today
- Crosses timezones, cultures, calendaring systems, corporate and network boundaries

8. Relaxed Constraints

- For a constrained list of named attendees
- For a constrained list of times.
- Restricted to organizations that have server based calendaring systems
- No provision for confirmation that times are acceptable or for updating calendars
- Can initially exclude provision for recurring meetings

9. Architectural overview

An organizer, aggregator, "avatar" program (or controller) providing the user interface, having knowledge of attendee lists and groups, perhaps embed local business logic, and some useful level of functionality aggregating and displaying results from the FREEBUSY queries.

A CalDAV-compliant free/busy interface (CC-FBI) layer (or "proxy" which would field CalDAV free/busy queries from, and return results to, the organizer program. This interface would only have to support enough CalDAV to support free/busy queries.

A number of "connector" servers or services, at the edge of the network, to interface to systems which do not support CalDAV.

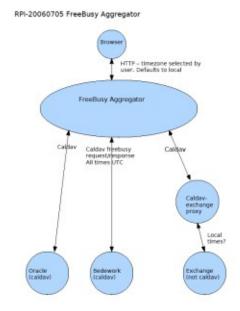


Figure 1 — Architectural Overview — "From the Clouds"

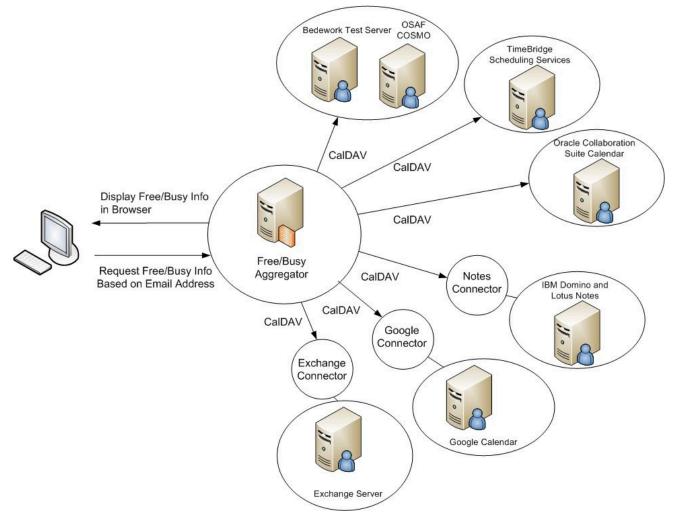


Figure 2 — Architectural View — "From the Clouds"

10. How we did it

- Coordinated in the CalConnect FREEBUSY technical committee
- Modified code from the open source Bedework calendar
- "Connector" code contributed by IBM, Boeing, and TimeBridge
- Cooperative and collegial development and testing among calendar developers

11. The Secret of Our Success — CalDAV

CalDAV is designed for implementation by any collaborative software, client or server that needs to maintain, access, or share collections of events. It is being developed as an open standard to foster interoperability.

CalDAV builds upon extant standards (RFC 2445, WebDAV) while anticipating and allowing changes in the future such as XML representations of calendaring formats.

Mozilla, Oracle, Open Software Applications Foundation, Novell, Bedework have publicly announced plans to support CalDAV.

CalDAV provides enterprises the promise of comprehensive, interoperable, global calendaring solution.

12. What We Learned

- Enlightened self interest and open standards are a powerful combination
- Even calendar developers who claim they use "open calendar standards" may have nonconforming implementations.
- Open APIs are good. Widely adopted open standards are better.
- Open standards need to be unambiguous ensure implementations will interpret those standards in interoperable way.

13. What remains to be done?

- Adroitly solve the problems we are presently adroitly sidestepping:
 - Discovery
 - Authentication and access control
 - Enfranchising additional calendaring systems
- Migrate this solution to use the richer functionality of the still developing "Scheduling Extensions to CalDAV" specifications.
- Encourage wider participation among calendar developers and calendar users

Appendix A (informative) Open Group Demo — July 18, 2006

Accessed FREEBUSY information from:

- Bedework Calendar (native CalDAV)
- Oracle Collaboration Suite Calendar (native CalDAV)
- OSAF Cosmo (native CalDAV)
- Google Calendar (RPI-supplied connector)
- IBM Lotus Domino/Notes (IBM-supplied connector)
- Microsoft Outlook (TimeBridge-supplied connector)
- Microsoft Exchange (Boeing-supplied connector)

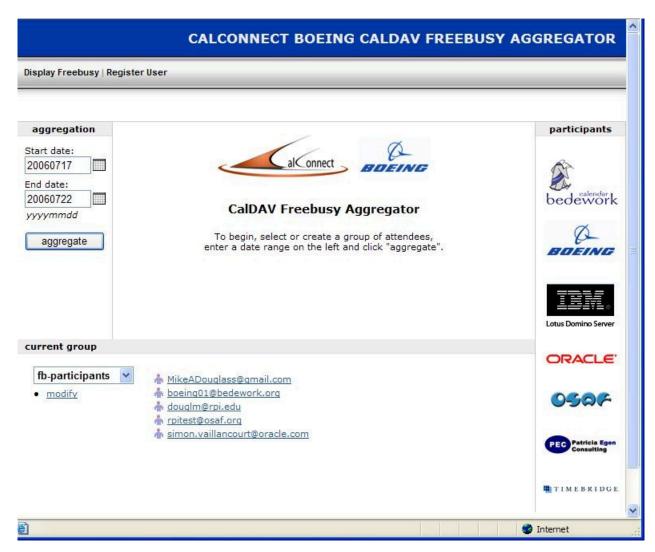


Figure A.1 — Aggregator Main Screen

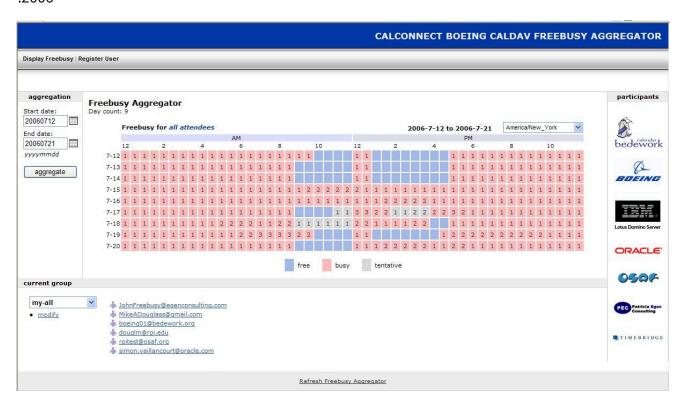


Figure A.2 — Aggregator FREEBUSY Display

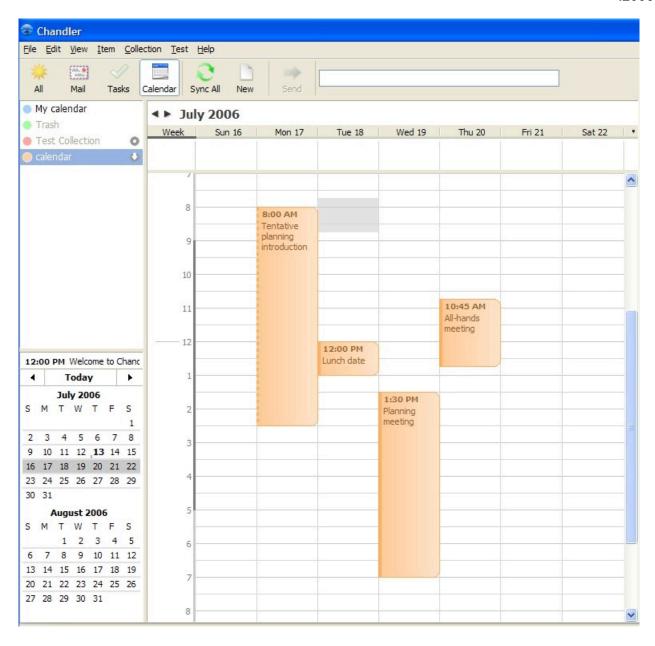


Figure A.3 — Chandler Calendar Screen Shot



Figure A.4 — Bedework Calendar Screen Shot

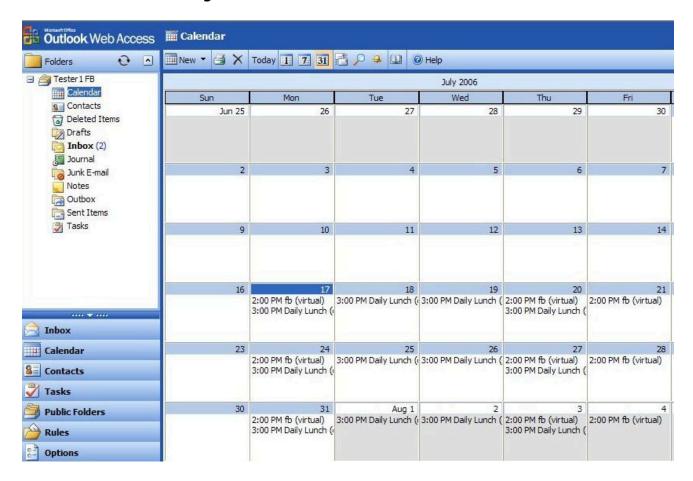


Figure A.5 — Boeing Exchange Calendar Screen Shot

Bibliography

- [1] http://www.opengroup.org/
- [2] http://www.calconnect.org/
- [3] http://www.bedework.org/
- [4] http://www.timebridge.org/
- [5] http://www.opengroup.org/messaging/challenges/
- [6] http://ietf.osafoundation.org/caldav/index.html