

CalConnect and Open Source

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.

© 2008 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

Foreword.....	iv
1. Please Allow Me to Introduce Myself.....	1
2. What I will be talking about.....	1
3. Rensselaer History.....	1
4. Overview of Bedework.....	2
4.1. What Is Bedework?.....	2
4.2. Calendaring Standards.....	2
4.3. Agnosticisms of Bedework.....	3
4.4. Bedework Features.....	3
4.5. Who's Using Bedework?.....	3
4.6. The Many faces of Bedework.....	4
5. Open Source.....	6
5.1. I'm a programmer.....	6
5.2. Open Source — What do we mean?.....	7
5.3. Open source is a continuum.....	7
5.4. OSS and the marketplace.....	7
6. Bedework The Open Source Project.....	7
6.1. RPI and OSS.....	7
6.2. Interoperability.....	7
6.3. Standards compliance — the double-edged sword.....	7
7. CalConnect And Open Source.....	8
7.1. OSS and CalConnect.....	8
7.2. CalConnect and OSS organizations.....	8
7.3. Ron Abel — 4 postulates.....	8
7.4. OSS vendors — why join CalConnect?.....	8
7.5. CalConnect as an open source entity.....	8
8. Why We Joined CalConnect.....	8
8.1. Why we really joined.....	9
8.2. What RPI gets from participation in CalConnect, both as calendar developers and as a research university.....	9
8.3. CalConnect — the benefits.....	9
9. The bottom line.....	10
Bibliography.....	11

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>.

IMPORTANT —

All documents included in the zip file for Meet CalConnect 2008 are considered part of CD 0812 and the public disclaimer included by reference above applies to all contents of the file.

Presentation location

Prague, Czech Republic

CalConnect and Open Source

1. Please Allow Me to Introduce Myself

Gary Schwartz

- Director, Communications & Middleware Technologies, Rensselaer Polytechnic Institute
- Bedework Project Leader
- CalConnect Vice President & Chair of FreebusyTechnical Committee

2. What I will be talking about

- Bedework, our open source, Java-based implementation of CalDAV
- The relationship between CalConnect and the open source movement
- RPI's reasons for joining CalConnect
- The benefits which RPI enjoys from active participation in CalConnect, both as calendar developers and as a research university

3. Rensselaer History

The Rensselaer School was established in Troy, NY, in 1824 by Stephen Van Rensselaer "for the purpose of instructing persons ... in the application of science to the common purposes of life."

It is

...the first school of science and school of civil engineering, which has had a continuous existence, to be established in any English-speaking country.

— Palmer C. Ricketts 2nd ed History of Rensselaer Polytechnic Institute (1914)



Figure 1 — RPI Back in the Day





Figure 2 — Rensselaer Today

4. Overview of Bedework



4.1. What Is Bedework?

Bedework is

- a comprehensive calendaring and events system
- open source
- platform independent (Java)
- modular & extensible
- intended for higher education
- and... **STANDARDS COMPLIANT**

4.2. Calendaring Standards

- iCal : RFC 2445 (2446, 2447)

- <http://www.ietf.org/rfc/rfc2445.txt>
- CalDAV : RFC 4791
 - <http://www.ietf.org/rfc/rfc4791.txt>
- CalDAV Scheduling (in draft)
- Vavailability (in draft)

Why? ...interoperability!

4.3. Agnosticisms of Bedework

- Database -Hibernate
- Application server
- Authentication
- Internationalization / localization
- Portal — JSR168
- Presentation
- Standards compliance
- Scalability

4.4. Bedework Features

Features:

- Distributed, fine grained administration
 - Administrative groups
 - Location and contacts management
- Access control & sharing
- Stand-alone & portlet implementations
- Highly customizable look and feel
- **Interoperable with CalDAV desktop clients** — currently Mozilla Lightning and Apple's iCal

4.5. Who's Using Bedework?

In production:

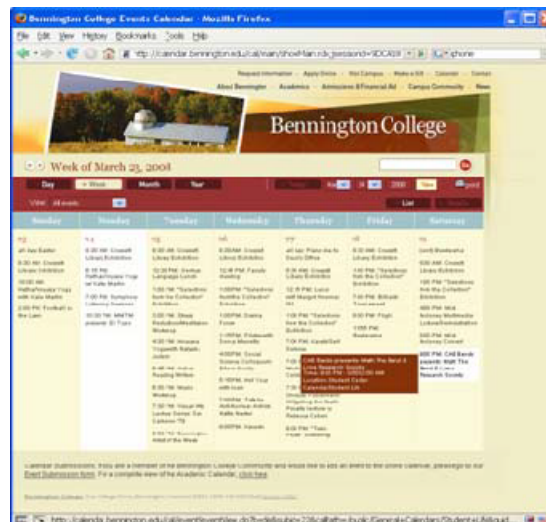
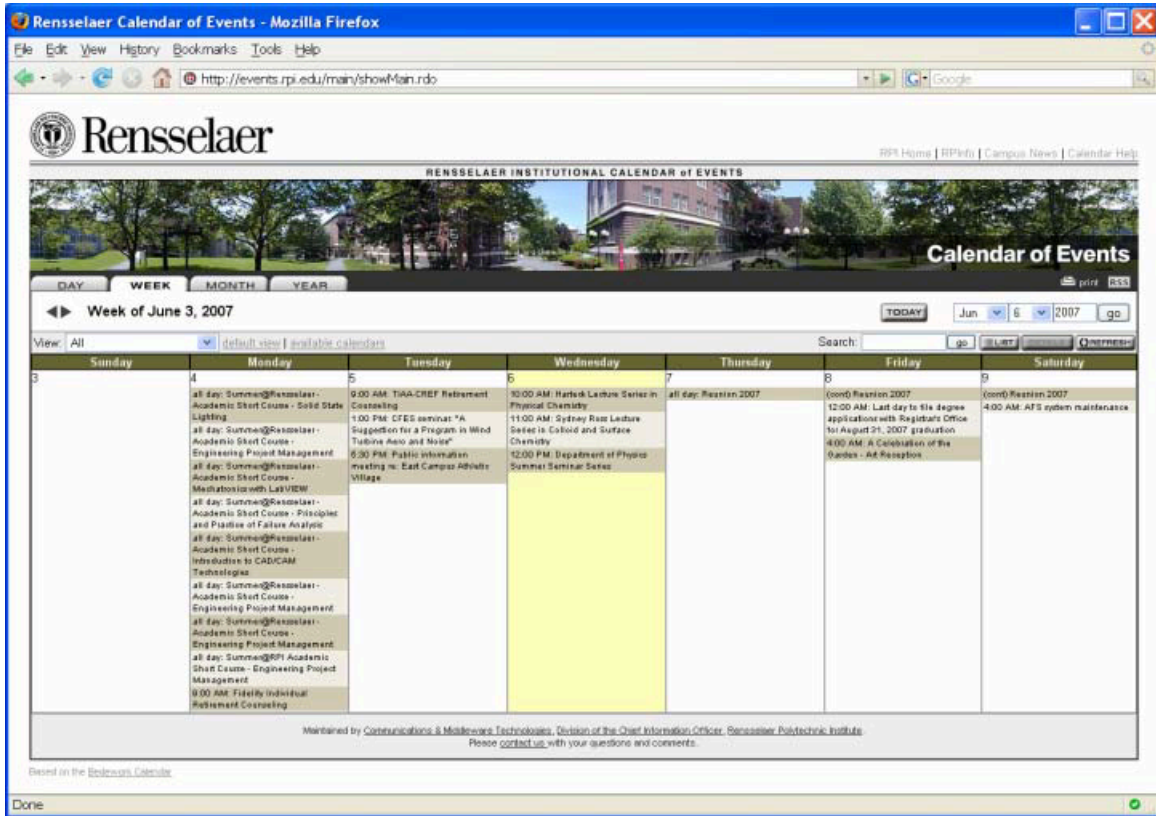
- Bennington College (US)
- Bishop's University (Canada)
- Cornerstone University (US)
- Dalhousie University (Canada)
- Duke University (US)
- Montana State University (US)
- Public University of Navarra(Spain)
- Queens University (Canada)
- Rensselaer Polytechnic Institute (US)
- University of British Columbia (Canada)
- University of Maine, Fort Kent (US)
- University of Maryland (US)
- University of Chicago (US)
- University of Washington (US)

In development:

- Brown University (US)
- Cornell University (US)

- Rutherford Appleton Lab (UK)
- Stockholm University (Sweden)
- Yale University (US)
- Others...

4.6. The Many faces of Bedework



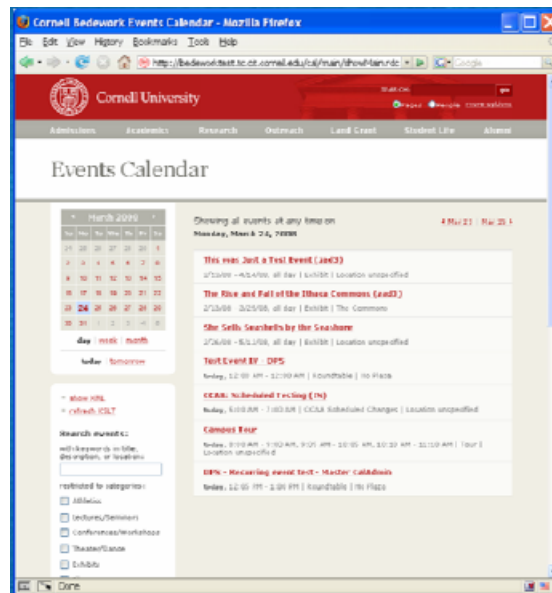
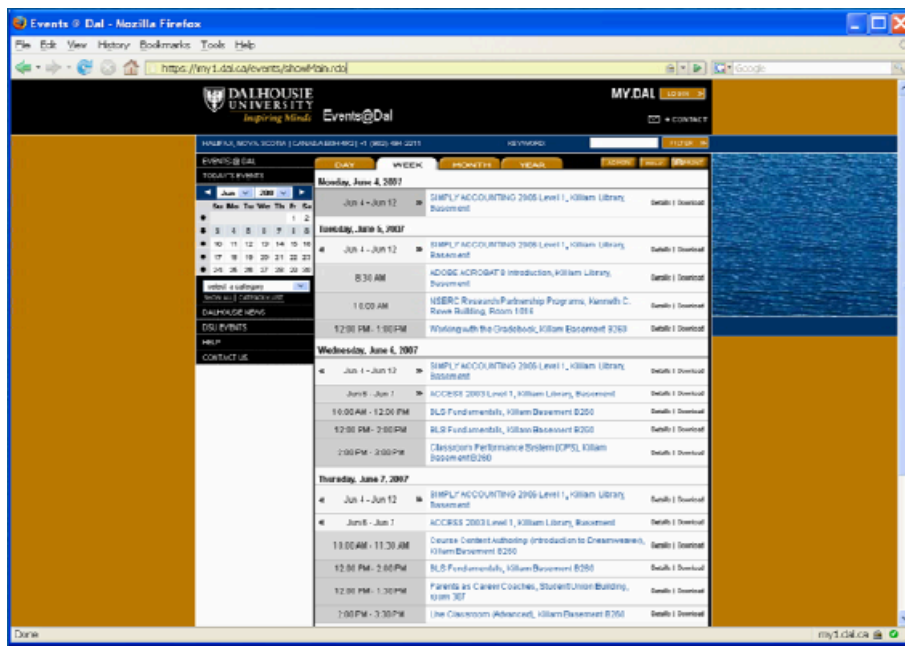


Figure 3 — The Many faces of Bedework



Figure 4 — Another face of Bedework

5. Open Source

5.1. I'm a programmer

- not a bricklayer
- not a psychiatrist
- not an escalator
- not a mechanic
- not an engineer
- not a coal miner

Or

An open source theorist



5.2. Open Source — What do we mean?

- [Open Source Initiative](#)
 - The 'open source' label was invented February 3rd, 1998 in Palo Alto, California
 - Wanted an alternative to "free software"
 - 'Open source' coined by Chris Peterson
 - Open source doesn't just mean access to the source code. The distribution terms of open-source software must comply with the 10 enumerated criteria

5.3. Open source is a continuum

- Product provenance
- Licensing terms
- Support
- Governance
- Sometimes east meets west -like when Georgia Tech integrated Zimbra (proprietary version) into Sakai (open source) using CalDav, facilitating future integrations, open source or otherwise.

5.4. OSS and the marketplace

- Open source is inherently neither better nor worse than other software development or distribution models
- Open source provides another option, representing a different value proposition

6. Bedework The Open Source Project

6.1. RPI and OSS

Whereas many university people enjoy a spiritual affinity for open source software, our interest is more pragmatic. As a campus-wide development group, technologies and products with no license or usage fees are critical to providing solutions which can be deployed with impunity. Our web foundation is largely built atop products and technologies which have no usage fees, allowing us to deploy as many instances, servers, CPU's, etc as necessary.

RPI relies heavily on and benefits from open source software but seldom contributes to open source. We believe this contribution will enhance Rensselaer's reputation in the area of software development.

6.2. Interoperability

- Bedework's preoccupation with standards and interoperability is in large part recognition that in many organizations, **Bedework is unlikely to be the only calendaring product in an enterprise.**
- The ability to share and exchange data with other calendaring products and environments is an important key to Bedework's future well-being as a product and a project.

6.3. Standards compliance — the double-edged sword

- Standards compliance is the key to Bedework's success -but
 - potentially useful features that are not standards compliant impede interoperability.
 - We could be more ingenious but sometimes no way to have our standards cake and eat it too.

- The heart wants what it wants.

7. CalConnect And Open Source

7.1. OSS and CalConnect

- CalConnect vendor members
 - Proprietary only
 - Open source only — Bedework, Mozilla, OSAF
 - Dual mode — Apple, Zimbra
 - Mixed — Google, IBM, Oracle, Sun, Symbian/Nokia, Microsoft

7.2. CalConnect and OSS organizations

- The world is flat — open source, proprietary source, no source — everyone is equal partner
- Sometimes open source organizations have more flexibility and agility and fewer constraints to participate, to speak publicly

7.3. Ron Abel — 4 postulates

- 1) Open source reference implementations are extremely critical in achieving adoption of open standards for software interoperability.
- 2) Standards organizations are the only way to get a level playing field w.r.t new open source applications for learning — that won't happen unless the open source projects/communities participate.

<http://blog.worldcampus.psu.edu/index.php/2007/09/19/open-source-and-open-standards/>

7.4. OSS vendors — why join CalConnect?

- Join CalConnect to add adopters? Unlikely. More likely to find collaboration partners than customers
- CalConnect members generally get “it” when “it”= “open source”.
- CalConnect vendor members generally get “it” where “it”= good products benefit from interoperability, becoming stronger, more marketable products.

7.5. CalConnect as an open source entity

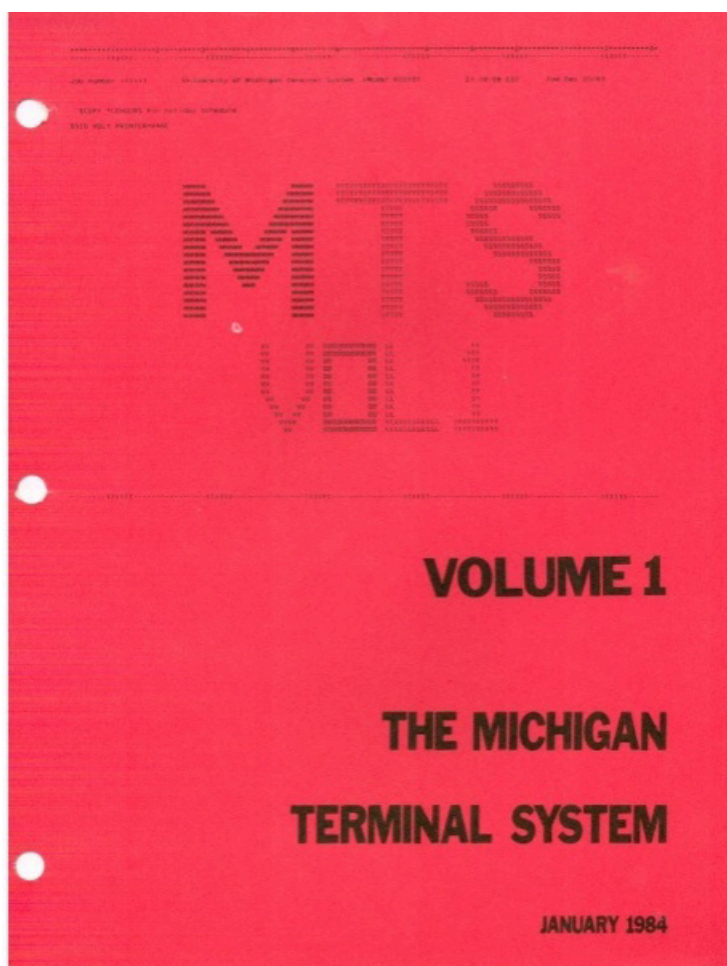
In “Dreaming in Code”, Scott Rosenberg referring to Eric Raymond’s “The Cathedral and the Bazaar” said,

Raymond identified 2 key prerequisites ...the **rise of a cooperative ethos** built around a leadership style like Torvald’s that **encouraged newcomers** and **welcomed contributions**, and **strove to maximize the number of qualified participants**

— Scott Rosenberg

8. Why We Joined CalConnect

- We have history of collaborative (but not OSS) software development — MTS
- We have a history of working with high quality people — MTS
- We saw first-rate people doing exciting work and we wanted to be part of it.



8.1. Why we really joined

We were showing off as observers at a CalConnect Roundtable, and had to join to save face.

8.2. What RPI gets from participation in CalConnect, both as calendar developers and as a research university

Like the Beatles said:

And, in the end, the love you take/ Is equal to the love you make

— Beatles

- **Active participation** in CalConnect
 - Chair FREEBUSY Technical Committee
 - Chair Timezone Technical Committee
 - iSchedule, CalDAV Technical Committees
 - Publicity Committee
 - Steering Committee
 - Board of Directors

8.3. CalConnect — the benefits

- CalConnect has many research university members. Getting together with like institutions to discuss C&S and other topics of mutual interest.

- Interoperability Test Events are invaluable
- Influencing/informing standards is useful, and a responsibility

9. The bottom line

We believe in interoperability and open standards — CalConnect promotes both

Bibliography

[1] Bedework, bedework.org