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**TITLE:** **Calendar Interoperability Testing Report – Public  
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## **Introduction**

The October 2009 CalConnect interoperability testing event was held at the Apple campus at Cupertino, California. Participants of the testing event used predetermined test scenarios. Rather than post the full scenarios in this document, they can be found on the CalConnect website at the following URL: <http://www.calconnect.org/iopTesting.shtml>.

The documents used in this testing event were the CalConnect CalDAV Matrix for RFC4791, in particular the scheduling section and an iCalendar, iMIP and iTIP testing matrix. Summaries and specific findings and issues found are noted in this document.

A small amount of initial CardDAV testing was done this event as well. Not everyone supports this protocol yet, but those that did performed some testing.

## **Participants**

<b>Organization</b>	<b>Participants</b>	<b>Versions Tested</b>
Apple	Cyrus Daboo	iCal Server and client - OS X 10.6.1 Apple iCal 4.0 (SnowLeopard)
	Jon Drummond	
	Morgen Sagen	
	Jeff Cathers	
DaviCal (observer)	Andrew McMillian	DaviCal CalDAV server
Kerio	Tomas Hnetila	Kerio MailServer 6.7.2 & Apple iCal Server
RPI	Michael Douglass	Bedework
PeopleCube	Kellie Hunter	Meetingmaker V8.8
	Gordon Connelly	
Sun	Ciny Joy	CalDAV Server and CalDAV Mobile Client
	Arnaud Quillaud	
<b>CalConnect Reps</b>		
Interop Manager Logistics	Pat Egen Dave Thewlis	

## **General Findings**

The following are general observations noted during CalDAV testing. This is a public document; therefore references to specific vendors are removed. The purpose of the observations is to show the type of errors seen or experienced.

iMip had an issue related to "+" addressing used by one vendor. A vendor fix is required.

Delegate expansion in one application is significantly different from an earlier version of the same application and server work is needed to accommodate those differences.

One vendor tested the ability to federate free/busy information from a server and it was successful after the vendor added an additional configuration item to allow free/busy information to be accessed without authentication. In a normal installation of the vendor's application, the freebusy URL is authenticated and access to a user's freebusy information requires the CalDAV:read-free-busy privilege.

iMIP compatibility testing by one vendor noted REPLY is not send to Reply-To: address but to From: address so server doesn't recognize it. Client doesn't see the invitation on server

The CalDAV schedule-inbox-URL and schedule-outbox-URL are being returned incorrectly to one client. They appear like this:

- <c:schedule-inbox-URL>/full-calendars/iop.test.dummy.com/user7/INBOX</c:schedule-inbox-URL>
  - <c:schedule-outbox-URL>/full-calendars/iop.test.dummy.com/user7/Sent%20Items</c:schedule-outbox-URL>
- But they should actually appear inside HREF tags like:
- <c:schedule-inbox-URL><d:href>/full-calendars/iop.test.dummy.com/user7/INBOX</d:href></c:schedule-inbox-URL>
  - <c:schedule-outbox-URL><d:href>/full-calendars/iop.test.dummy.com/user7/Sent%20Items</d:href></c:schedule-outbox-URL>

Configuring CardDAV account client results in incorrect server address if username contains '@' character. For example setting the servername to 'server:port' and username to 'user@domain' results in requests being sent to: http://user@domain@server:port. Our server uses username format user@domain in some cases (when more domains are configured). So there is no way to configure client CardDAV account manually with our server.

One client uses "/addressbook/" as the default collection (e.g.: /addressbooks/\_\_uids/.../addressbook/). We don't have a chance to use different collection like "/addressbooks/\_\_uids/.../contacts/". We can resolve this on our side but it would be better if the address book behaved as a general CardDAV client getting this information from the server.

Areas of particular interest for testing include creating and modifying any and all recurring patterns, specifically looking for behavior centered around instances of recurring patterns that fall on a weekend when our user sets option to move the weekend instance to the closest Friday or Monday.

Discovered a few errors related to implicit scheduling. Was not getting triggered correctly. At least partially fixed. More checking required.

Some problems related to alarms and alarms with recurrence instances.

First problem was due to not saving VALARM x-properties. Client got confused and multiplied default alarms.

Second problem appears to be server side only and needs further work. Exception when a (summary) change was made to a recurrence instance

Tests went fine for explicit scheduling. As far as implicit scheduling goes, on testing with one client, bugs were found and fixed, inconsistencies in the draft were discussed and explained. Towards the end of the interop was able to do basic invitation/reply.

One client does not support VEVENT with METHOD:REPLY and no DTSTART when this is allowed by iTIP (but it was easy to fix that on the server side).

One client could not create events because privileges are not correctly reported by a server.

When creating a new meeting recurring every Monday from 10:00 AM to 11:00 AM for 4 weeks one server returns 415 error code when a client writes attendees with new EMAIL parameter. Hacking the client to remove this parameter leads to success.

One server only allows one alarm. Additional alarms are removed

There appears to be intermittent errors when events contain alarms. Performing this step on one server caused the entire recurrence to vanish

On one server, meeting changes beyond the initial invite do not seem to make it to attendees

One client does not use calendar-query or vevent queries.

One server is unable to create overridden instances

There are still a few CalDAV servers that do not support scheduling but this number is diminishing.

On one server, initial scheduling works but subsequent replies or updates do not.

Creating a regular collection in the current user's personal calendar space is not supported on some clients.

A mobile client was tested and the following was noted. One server testing failed initially because the client could not handle SSL certs and then Digest auth. Though changes were done in the server to get around that, the client hung after getting to the home collection. More debugging required on client side to solve this.

## **Summary**

As we continue CalDAV testing, there is more and more evidence of improved functionality. Jon Drummond from Apple remarked on how amazed he was that so much was working. This truly shows the support and work done by all the vendors to make this protocol a viable and working effort.

CardDAV testing is in the very early stages. A small amount was done to "test the waters." This will be an item on the next event in February.

None of the vendors were ready to do any Timezone server testing at this event. We will poll the waters next time to see if anyone is ready to do preliminary testing.

Our thanks to all participants and contributors to this document.

Respectfully submitted by Pat Egen, CalConnect Interop Manager.