

CalConnect II — April, 2001

Published Administrative

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Introduction

IETF CALSCH Working Group Interoperability Testing . Held Wed. April 11, 2001 — Fri. April 13, 2001 — 8:30 a.m. — 6:00 p.m.

This second interop test was held at Stanford University in Palo Alto, CA. Stanford graciously donated the use of their facilities and network in order to help further the movement of our standards. This interop focused on iCalendar, iTIP and iMIP. The testing matrix can be found on www.calsch.org.

The first day Pat Egen, IETF CALSCH working group co-chair introduced everyone and established the ground rules as well as let everyone know the network logistics within Stanford and to her server at www.egenconsulting.com.

Participants

The participants were:

- George Babics, Steltor: georgeb@steltor.com
- Alan Davies, Steltor: aland@steltor.com
- Tom Ransdell, Iris: transdell@iris.com
- Anita Paci, Iris: apaci@iris.com
- John Sun, Netscape: jsun@netscape.com
- Malika Parekh, Netscape: malika@netscape.com
- Pat Egen pregen@egenconsulting.com

Products and Releases Tested

Steltor

- CorporateTime Server 6.0 Alpha
- CorporateTime Outlook Connector 3.0
- CorporateTime Native Client 6.0 Alpha
- CorporateTime iMIP/iTIP Alpha Helper Application

Lotus/Iris

- Lotus Domino and Notes Release RNext

iPlanet

- Calendar Server Version 5.next

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1. General Summary

These notes are “homogenized” — in other words, names of vendors have been removed so you can't tell who is who. Once the draft moves forward, we will post which vendor supports which component. For purposes of this document, I will call them Vendor 1, Vendor 2 and Vendor 3. I have also included a section with general notes as related by each vendor.

1.1. Vendor 1 notes/results

Overall there was good interoperability. In general the vendors were able to interoperate. They were able to invite, reply, reschedule, and cancel to single instance meetings. There was some problems with the timezones that were used in recurrence rules, as a result only minimal testing was done with events with multiple occurrences. Finally, even though Microsoft was not there, some interoperability was done with Outlook.

iTIP Methods	Vendor 1		Vendor 2		Vendor 3	
	Send	Accept	Send	Accept	Send	Accept
Request (Single Instance Event)	yes	yes	yes	yes	yes	yes
Request (Multiple Instance Event without RRULE)	yes	yes	yes	yes	yes	yes
Request (Multiple Instance Event with RRULE)	yes	yes	no	no	no	yes
Reply	yes	yes	yes	yes	no	yes
Add	no	yes ^a	no	yes ^a	no	no
Cancel	yes	yes	yes	yes	yes	?
Counter	no	yes ^a	?	?	no	no
Decline-Counter	no	yes ^a	?	?	no	no
Refresh	no	yes	yes	yes ^a	no	no
Publish	no	yes ^a	no	yes ^a	no	yes
Components						
VEVENT	yes	yes	yes	yes	yes	yes
VJOURNAL	no	no	no	no	no	no
VTODO	no	no	yes	yes ^a	no	yes ^a
VTIMEZONE	yes	yes	no	no	no	yes
VALARMS	no	yes ^a	no	yes ^a	no	no

NOTE “no” indicates that a vendor was unable to support a feature due to not implementing it, bugs, or due to misinterpretation of the RFCs

^a untested

1.1.1. Other Things That Worked

- Vendor1 was able to invite using recurrence rules
- Vendor2 was able to delegate
- Vendor2 was able to send VTODOs

What did not work:

- Vendor 2 was unable to support more than one instance on the same day
- No one supported sending floating time events
- Vendor 2 did not support event duration less than fifteen minutes
- Vendor 3 did not support slash format in RDATEs
- Vendor 2 was unable to send a response if RSVP was false (point for future discussion about meaning of RSVP)
- Vendor 3 did not escape any of their special characters

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— Some of Vendor 2's lines were longer than permitted in iCalendar

1.2. Vendor 2 notes/results

iCalendar Method	Vendor 2 supported	Test with Vendor 1	Test with Vendor 3
Event Publish	yes	not tested	not tested
<i>Event Publish</i>	yes	not tested	not tested
Event Request	-	-	-
New Event	-	-	-
non repeating	yes	tested	tested
<i>non repeating</i>	yes	tested	tested
RRULE repeating no exceptions	yes	tested	tested
<i>`RRULE` repeating no exceptions</i>	yes	tested	tested
RRULE with EXRULE	will not create	not tested	not tested
<i>`RRULE` with `EXRULE`</i>	yes	not tested	not tested
RRULE with EXDATES	will not create	not tested	not tested
<i>`RRULE` with `EXDATES`</i>	yes	not tested	not tested
RDATEs repeating no exceptions	yes	not tested	not tested
<i>RDATEs repeating no exceptions</i>	yes	not tested	not tested
RDATEs with EXRULE	will not create	not tested	not tested
<i>RDATEs with `EXRULE`</i>	yes	not tested	not tested
RDATEs with EXDATES	will not create	not tested	not tested
<i>RDATEs with `EXDATES`</i>	yes	not tested	not tested
with attachment	yes	not tested	not tested
<i>with attachment</i>	yes	not tested	not tested
Broadcast	-	-	-
non repeating	yes	tested	not tested
<i>non repeating</i>	yes	tested	?
RRULE repeating no exceptions	yes	not tested	not tested
<i>`RRULE` repeating no exceptions</i>	yes	not tested	not tested
RRULE with EXRULE	will not create	not tested	not tested
<i>`RRULE` with `EXRULE`</i>	yes	not tested	not tested
RRULE with EXDATES	will not create	not tested	not tested
<i>`RRULE` with `EXDATES`</i>	yes	not tested	not tested
RDATEs with no exceptions	yes	not tested	not tested
<i>RDATEs with no exceptions</i>	yes	not tested	not tested
RDATEs with EXRULE	will not create	not tested	not tested
<i>RDATEs with `EXRULE`</i>	yes	not tested	not tested
RDATEs with EXDATES	will not create	not tested	not tested
<i>RDATEs with `EXDATES`</i>	yes	not tested	not tested
with attachment	yes	not tested	not tested
<i>with attachment</i>	yes	not tested	not tested
Reschedule	-	-	-
Non repeating	yes	not tested	not tested
<i>Non repeating</i>	yes	not tested	not tested
Repeating all	yes	not tested	not tested
<i>Repeating all</i>	yes	not tested	not tested
Individual event of repeat set	yes	not tested	not tested
<i>Individual event of repeat set</i>	yes	not tested	not tested
Update	-	-	-
Non repeating	yes	not tested	not tested
<i>Non repeating</i>	yes	not tested	not tested
Repeating all	yes	not tested	not tested
<i>Repeating all</i>	yes	not tested	not tested
Individual event of repeat set	yes	not tested	not tested
<i>Individual event of repeat set</i>	yes	not tested	not tested
Event Reply	-	-	-
Accept	-	-	-

iCalendar Method	Vendor 2 supported	Test with Vendor 1	Test with Vendor 3
Non repeating	yes	tested	tested
<i>Non repeating</i>	yes	tested	tested
Repeating all	yes	tested	tested
<i>Repeating all</i>	yes	tested	tested
Individual event from repeat set	yes	not tested	not tested
<i>Individual event from repeat set</i>		not tested	not tested
Decline	-	-	-
Non repeating	yes	?	?
<i>Non repeating</i>	yes	?	?
Repeating all	yes	?	?
<i>Repeating all</i>	yes	?	?
Individual event from repeat set	yes	not tested	not tested
<i>Individual event from repeat set</i>	yes	not tested	not tested
Delegate	-	-	-
Non repeating	yes	not tested	not tested
<i>Non repeating</i>	yes	not tested	not tested
Repeating all	yes	not tested	not tested
<i>Repeating all</i>	yes	not tested	not tested
Individual event from repeat set	yes	not tested	not tested
<i>Individual event from repeat set</i>	yes	not tested	not tested
Event Refresh Request	-	-	-
Non repeating	yes	not tested	not tested
<i>Non repeating</i>	yes	not tested	not tested
Repeating all	yes	not tested	not tested
<i>Repeating all</i>	yes	not tested	not tested
Event Counter	-	-	-
Non repeating	yes	not tested	not tested
<i>Non repeating</i>	yes	not tested	not tested
Repeating all	yes	not tested	not tested
<i>Repeating all</i>	yes	not tested	not tested
Individual event from repeat set	yes	not tested	not tested
<i>Individual event from repeat set</i>	yes	not tested	not tested
Event DeclineCounter	yes	not tested	not tested
<i>Event DeclineCounter</i>	yes	not tested	not tested
Event Add	not supported	not tested	not tested
<i>Event Add</i>	not supported	not tested	not tested
Event Cancel	-	-	-
Cancel Non repeating	yes	tested	tested
<i>Cancel Non repeating</i>	yes	tested	tested
Cancel Repeating all	yes	tested	tested
<i>Cancel Repeating all</i>	yes	tested	tested
Cancel Individual event from repeat set	yes	not tested	not tested
<i>Cancel Individual event from repeat set</i>	yes	not tested	not tested
Remove individual from non repeating	yes	not tested	not tested
<i>Remove individual from non repeating</i>	yes	not tested	not tested
Remove individual from entire repeat set	yes	not tested	not tested
<i>Remove individual from entire repeat set</i>	yes	not tested	not tested
Remove individual from individual event of RS	yes	not tested	not tested
<i>Remove individual from individual event of RS</i>	yes	not tested	not tested
ToDo Publish	yes	not tested	not tested
<i>ToDo Publish</i>	yes	not tested	not tested
ToDo Request	-	-	-
New ToDo	-	-	-
Non repeating	yes	not tested	not tested
<i>Non repeating</i>	yes	not tested	not tested
RRULE repeating no exceptions	yes		

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iCalendar Method	Vendor 2 supported	Test with Vendor 1	Test with Vendor 3
RRULE with EXRULE	will not create		
RRULE with EXDATES	will not create		
RDATE repeating no exceptions	yes		
RDATEs with EXRULE	will not create		
RDATEs with EXDATES	will not create		
Reschedule	-	-	-
Non repeating	yes		
Repeating all	yes		
Individual event of repeat set	yes		
Update	yes		
ToDo Reply	-	-	-
Accept	-	-	-
Non repeating	yes		
Repeating all	yes		
Individual event from repeat set	yes		
Decline	-	-	-
Non repeating	yes		
Repeating all	yes		
Individual event from repeat set	yes		
ToDo Add	no		
ToDo Cancel	-	-	-
Cancel Non repeating	yes		
Cancel Repeating all	yes		
Cancel Individual event from repeat set	yes		
Remove individual from non repeating	yes		
Remove individual from entire repeat set	yes		
Remove individual from individual event of RS	yes		
ToDo Refresh Request	yes		
ToDo Counter	-	-	-
Non Repeating	yes		
Repeating all	yes		
Individual event from repeat set	yes		
ToDo DeclineCounter	yes		
FreeBusy Publish	not yet		
FreeBusy Request	not yet		
FreeBusy Reply	not yet		
VJournal Publish	no planned support		
VJournal Add	no planned support		
VJournal Cancel	no planned support		
Status Reply	not yet		

NOTE	Sending	in this font;
	<i>Receiving</i>	<i>in italics.</i>

Some issues found were UID problems and then in timezone problems.

The only other interesting problem was distinguishing between removing a person and canceling. From my point of view we did not end up doing a lot of testing. I am including a table of what we support and what we tested. The table is not completed except for EVENTS

Other Issues encountered while doing iCAL testing at CalConnect2.

- 1) Sent to a Bcc user via Location Doc: "Through xxxx Server/MIME format"; Person Doc: "Prefers MIME". The Bcc user receives an invitation with all of the Typical Workflow actions. Error: S/he should only have the "Add to Calendar" action.
- 2) Reschedule notices are not displaying invitee response actions.
- 3) Invitations from a French Vendor 3 client are received with no subject or date/time fields.
- 4) Cancellation notices being received as Updates from vendor 1. Upon opening notice, you get the correct pop-up indicating that the meeting has been cancelled and the entry is removed from the Calendar. However, the "Update Calendar" button is not hidden, and if you click on it it will recreate the entry.
- 5) Cancellation of a repeating meeting from Vendor 3 doesn't remove entries from Calendar.
- 6) Custom repeats from Vendor 3 (RDATES) only display the first date in the "Repeat Options" dialog in invitee's Calendar entry.

1.3. Vendor 3 Results

Comments from Vendor 3.

- 1) Vendor 2 and Vendor 1 can retrieve EVENT REQUEST messages from Vendor 3 Server — But they would prefer that the Vendor 3 IMIP messages come in the "multipart/mixed" MIME format. We have included this item in our bug list.
- 2) We tried to import a REPLY from the other vendors. We were able to import Vendor 2's REPLY. However, we could not import Vendor 1's REPLY messages. This was because they were inserting the Recurrence-ID in the event REPLY message even though it was a non-recurring VEVENT. Also, we had a bug in handling RSVP. We were saving the change in the RSVP value of the attendee, which caused a UI bug. (In our User Interface, the attendee was moved to an INFORM)
- 3) Vendor 1 and 2 can receive our recurring EVENT REQUEST invitations.
- 4) We can import Vendor 1 and 2's recurring REPLY messages. However, we get the same number of e-mails as instances (i.e. 60 replies (messages) to 1 recurring event)
- 5) We can import CANCEL messages from Vendor 1
- 6) Vendor 2 could not import our mail messages from a Spanish or French user. — Vendor 1 can display them OK using the Eudora mail program.
- 7) We can import a recurring REQUEST from Vendor 2
- 8) Vendor 4 created an event. They sent two REQUEST messages, sequence=0, sequence=1, the first one sent RECURRENCE - ID, the second one did not. This is Vendor 1's bug, and they may have fixed it.

What about others:

- 1) No one implemented ADD.
- 2) No one tested COUNTER or DECLINECOUNTER

The Vendor 3 team is working on fixing CalConnect-related bugs and will include the fixes in future releases.

1.4. Chair Comments

This interop compared to the first one was a world of difference. Many many more things worked and we were able to spend more time testing elements.

While Vendor 2 shows a lot "Untested", after reading notes, I believe many of these items were indeed tested. We have developed a new testing form that will be used on the next interop test. I know one vendor felt we had not done enough testing — I think he really wanted to prove it all works. Well, most of it did! We still have a ways to go, but for the first time, everyone feels that we have made progress and there is a light at the end of the tunnel. The best part of the interop was the interactions between the attendees. That will help ongoing efforts tremendously. Everyone wants to do the next interop within the next 6-9 months. We don't want to wait too long now that we have momentum.

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By Patricia Egen