

# July 2004 CalConnect Interoperability Test Report

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# Contents

|   |           |
|---|-----------|
| <b>Foreword.....</b>  | <b>iv</b> |
| <b>1. Report.....</b>   | <b>1</b>  |
| <b>1.1. Participants.....</b>                                 | <b>1</b>  |
| <b>1.2. Products Tested.....</b>                              | <b>1</b>  |
| <b>1.3. General Summary.....</b>                              | <b>1</b>  |
| <b>2. Identification of Specific Items on the Drafts.....</b> | <b>2</b>  |
| <b>2.1. Items supported by BOTH vendors.....</b>              | <b>2</b>  |
| <b>2.2. Items NOT supported by BOTH vendors.....</b>          | <b>3</b>  |
| <b>Bibliography.....</b>                                      | <b>5</b>  |

## **Foreword**

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

# July 2004 CalConnect Interoperability Test Report

## 1. Report

### 1.1. Participants

- Dave Thewlis — Calendaring and Scheduling Consortium
- Pat Egen — IETF Co-chair and Calendaring and Scheduling Consortium
- Nathaniel S. Borenstein, IBM
- Chris Stoner — IBM
- Keith MacDonald — Oracle
- Simon Vaillancourt — Oracle
- Jeff McCullough — University of California at Berkeley — our host

### 1.2. Products Tested

- Lotus Notes 7
- Oracle Collaboration Suite

### 1.3. General Summary

During our testing event at UC Berkeley two vendors participated. This was the fourth in a series of interoperability testing events for RFC 2445, 2446, and 2447. The first two were “onsite” events and the third was a “virtual” event with testing occurring via conference calls and email testing.

At the last three testing events, the testing done was more at a vendor to vendor level rather than at a pure IETF “RFC Conformance” level. By Conformance testing, we mean identifying support for and testing explicit MUST/MUST NOT/SHOULD/SHOULD NOT/ and MAY requirements.

In preparation for this interop event and to satisfy the requirement for RFC conformance testing, a matrix of all three RFC’s was prepared and this was used as our driver for testing compliance. We, as a group, went through each and every item and validated whether the requirement was supported by each vendor. In most cases, where both vendors did not support a particular requirement, we still tested the action to validate this “non-support.” From that perspective, this was probably the most productive interop of all the events.

Since there were only two participants at this interop, we will need at least one more interoperability event to fully identify what needs to be removed from these drafts. Now that we have a complete set of matrices as well as test scenarios and scripts, we can fully define what works and doesn’t work. I have included the notes from the other three events at the end of this document for comparison.

This document will highlight the key findings from this exercise. The matrix spreadsheet with all items noted is attached to this report. The spreadsheet shows what is and is not supported by the two participants. Based on past interops, and discussions held at this meeting we have ascertained the following:

- Most vendors are not doing Journals. It appears we can probably remove any VJOURNAL items from all drafts without significant ramifications.
- Recurring and repeating meetings still have a bit of mystery and ambiguity associated with them. This was obvious during testing and is well documented and discussed on the various lists. We talked about the differences between recurring and repeating meetings and we look to see this discussed further on all the mailing lists.
- VTOD0’s are not supported by either vendor and there were problems in past interops. This may be something that can be removed and added back as another draft that just pertains to VTOD0s.

The next page identifies the items that are supported by both vendors and the items not supported on the three drafts. Note — there are 201 specific items in RFC 2445, 74 items in RFC 2446, and 14 items in RFC 2447. Any item not shown on the summary page means only one of the two vendors during this interoperability event supports that item.

I created a table that counts the number of items supported and not supported by both vendors as well as a breakdown of how many of each item each vendor does or does not support. I also created a table that shows the specific items supported by both vendors and a table showing the specific items NOT supported by both vendors.

In summary, we are farther along than we were during the first interop. But we have a ways to go. There was discussion at this interop about opening a new mailing list to work on simplification of these drafts in order to improve/enhance interoperability opportunities.

The results for both vendors showed the following:

| <b>Draft</b> | <b>Items Supported</b> | <b>Items Not Supported</b> |
|--------------|------------------------|----------------------------|
| RFC 2445     | 114                    | 26                         |
| RFC 2446     | 15                     | 5                          |
| RFC 2447     | 8                      | 5                          |

By Vendor, the numbers look like this:

| <b>Draft</b>    | <b>Items Supported</b> | <b>Items Not Supported</b> |
|-----------------|------------------------|----------------------------|
| <b>Vendor 1</b> |                        |                            |
| RFC 2445        | 132                    | 69                         |
| RFC 2446        | 35                     | 39                         |
| RFC 2447        | 9                      | 5                          |
| <b>Vendor 2</b> |                        |                            |
| RFC 2445        | 137                    | 64                         |
| RFC 2446        | 45                     | 29                         |
| RFC 2447        | 8                      | 6                          |

## 2. Identification of Specific Items on the Drafts

### 2.1. Items supported by BOTH vendors

#### 2.1.1. iCalendar — RFC 2445 — 114 items out of 201

- 2.3 International Considerations
- 4.1 Content Lines
- 4.2 Property Parameters
- 4.2.12 Participation Status
- 4.2.19 Time Zone Identifier
- 4.2.20 Value Data Types
- 4.3.3 Calendar User Address
- 4.3.5 Date-Time
- 4.3.10 Recurrence Rule
- 4.3.11 Text
- 4.3.12 Time
- 4.3.14 UTC Offset
- 4.4 iCalendar Object
- 4.6 Calendar Components
- 4.6.1 Event Component
- 4.6.2 To-do Component
- 4.6.5 Time Zone Component
- 4.7 Calendar Properties
- 4.7.2 Method
- 4.7.3 Product Identifier

- 4.7.4 Version
- 4.8.1.4 Comment
- 4.8.1.5 Description
- 4.8.1.6 Geographic Position
- 4.8.1.7 Location
- 4.8.1.10 Resources
- 4.8.1.12 Summary
- 4.8.2.1 Date/Time Completed
- 4.8.2.2 Date/Time End
- 4.8.2.4 Date/Time Start
- 4.8.2.7 Time Transparency
- 4.8.3.1 Time Zone Identifier
- 4.8.3.2 Time Zone Name
- 4.8.3.3 Time Zone Offset From
- 4.8.3.4 Time Zone Offset To
- 4.8.4.1 Attendee
- 4.8.4.2 Contact
- 4.8.4.3 Organizer
- 4.8.4.4 Recurrence ID
- 4.8.4.7 Unique Identifier
- 4.8.5.1 Exception Date/Times
- 4.8.5.4 Recurrence Rule
- 4.8.6.1 Action
- 4.8.7.2 Date/Time Stamp
- 4.8.7.4 Sequence Number
- 4.8.8.2 Request Status
- 6 Recommended Practices

### **2.1.2. iTIP — RFC 2446 — 15 items out of 74**

- 3.1 Common Component Restrictions
- 3.2.2 VEVENT REQUEST
- 3.2.2.1 Rescheduling an Event
- 3.2.2.2 Updating or Reconfirmation of an Event
- 3.2.3 VEVENT REPLY
- 3.2.4 VEVENT ADD
- 3.2.4 VEVENT CANCEL
- 3.6 Status Replies
- 3.7.2 Attendee Property Considerations
- 5 Application Protocol Fallbacks

### **2.1.3. iMIP — RFC 2447 — 8 items out of 14**

- 2.3 RFC 822 Addresses
- 2.4 Content Type (all)
- 2.5 Content-Transfer-Encoding
- 2.6 Content-Disposition

## **2.2. Items NOT supported by BOTH vendors**

### **2.2.1. iCalendar — RFC 2445 — 26 of 201 items**

- 4.1.1 List and Field Separators
- 4.2.6 Directory Entry Reference
- 4.3.5 Date-Time
- 4.3.9 Period of Time
- 4.6.3 Journal Component

- 4.6.5 Time Zone Component
- 4.8.4.3 Organizer
- 4.8.4.5 Related To
- 4.8.6.3 Trigger
- 4.8.7.4 Sequence Number

### **2.2.2. iTIP — RFC 2446 — 5 of 74 items**

- 3.1 Common Component Restrictions
- 3.2.2.6 Forwarding to An Uninvited CU
- 3.3 Methods For VFREEBUSY Components
- 3.3.2 VFREEBUSY REQUEST
- 3.3.3 VFREEBUSY REPLY
- 3.4.2.4 REQUEST Forwarded To An Uninvited Calendar User
- 3.4.1 VTODO PUBLISH
- 3.4.5 VTODO CANCEL
- 3.4.6 VTODO REFRESH
- 3.5.1 VJOURNAL PUBLISH
- 3.5.2 VJOURNAL ADD
- 3.5.3 VJOURNAL CANCEL
- 3.7.2 Attendee Property Considerations

### **2.2.3. iMIP — RFC 2447 — 6 of 16 items**

- Section 3 — security considerations

## **Bibliography**

- [1] CalConnect I — April, 2000
- [2] CalConnect II — April, 2001
- [3] CalConnect III — Virtual interop, September, 2002