

draft-ietf-calext-valarm-extensions

Alarm Unique Identifier

- Allow a UID property in VALARM components to allow a unique identifier to be specified.
- Follows recent convention of being able to refer to uniquely to any component.

Alarm Acknowledgement

- There is currently no way for a VALARM component to indicate whether it has been triggered and acknowledged.
- With clients that use CalDAV it is quite possible for an event with an alarm to exist on multiple clients in addition to the server.
- If each of those is responsible for performing the action when an alarm triggers, then multiple "alerts" are generated by different devices.
- In such a situation, a calendar user would like to be able to "dismiss" the alarm on one device and have it automatically dismissed on the others too.

Alarm Acknowledgement

- New ACKNOWLEDGED property for VALARM component
- Specifies the UTC date and time at which the corresponding alarm was last sent or acknowledged.

ACKNOWLEDGED:20090604T084500Z

Snoozing Alarms

- Users often want to "snooze" an alarm, and we want a standard approach to accomplish that.
- To "snooze" an alarm, clients create a new VALARM component as a sibling of the VALARM that was triggered and is being "snoozed".
- The new VALARM MUST be set to trigger at the user's chosen "snooze" interval after the original alarm triggered.
- When the "snooze" alarm is triggered and dismissed the client SHOULD remove the corresponding VALARM component, or set the "ACKNOWLEDGED" property.

Location-based Alarms

- VALARMS are currently triggered when a specific date-time is reached.
- It is also desirable to be able to trigger alarms based on location, e.g. when arriving at or departing from a particular location.
- Two new iCalendar properties for VALARMS:
 - STRUCTURED-LOCATION - used to indicate the actual location to trigger off, specified using a geo: URI which allows for two or three coordinate values with an optional uncertainty
(defined in draft-ietf-calext-eventpub-extensions)
 - PROXIMITY - indicates that a location based trigger is to be used and which direction of motion is used for the trigger
Values: DEPART, ARRIVE, CONNECT, DISCONNECT

Location-based Alarms

- Examples:

BEGIN:VALARM

UID:77D80D14-906B-4257-963F-85B1E734DBB6

ACTION:DISPLAY

PROXIMITY:ARRIVE

STRUCTURED-LOCATION;VALUE=URI:geo:40.443,-79.945;u=10

DESCRIPTION:Brew coffee for office

END:VALARM

BEGIN:VALARM

UID:77D80D14-906B-4257-963F-85B1E734DBB6

ACTION:DISPLAY

PROXIMITY:DEPART

STRUCTURED-LOCATION;VALUE=URI:geo:40.443,-79.945;u=10

DESCRIPTION:Pickup eggs

END:VALARM

Location-based Alarms

- Issues ???