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.
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 ???