

CHECKPOINT/CLEARIDLE

- Overarching Goal
 - Mobile clients need to provide a smooth responsive user experience
- Draft Goals ...
 - Reduce the cost of providing quasi-real-time reception of server state change
 - Minimize client costs for full synchronization
 - Reduce the frequency of full syncs
 - Minimize the number of changes needed to existing protocols to accomplish goals
- Obviates the following
 - RECONNECT
 - Draft-ietf-lemonade-server-to-client-notifications

CHECKPOINT/CLEARIDLE

- The current drafts do not provide a clear description on how these two would be used together to accomplish the stated goals.
 - The full set of goals are accomplished by using both
 - How the two play together could be part of a the lemonade profile
- CHECKPOINT
 - Defines the vehicle for delivery
- CLEARIDLE
 - Defines the Response set delivered

CHECKPOINT

- Extends IDLE to provide ...
 - Acknowledged Delivery of IMAP Responses
 - Re-establishment of IDLE session
- Re-synchronization avoidance
 - Designed to avoid missed events
 - Disconnections tolerated via Account based queuing
 - Currently only involuntary disconnections
- Defines a two session access scenario for IMAP client
 - Both sessions are mutually aware
 - One session receives events
 - Second session processes events
 - UID “Exported” between sessions using IMAPURL

CHECKPOINT

- Highly Connected or “Lightly” Connected
 - Highly Connected
 - Reduces cost of connection
 - Provides for smoother reception of events
 - “Lightly” Connected supported
- IDLE Context is a way of scoping both ...
 - Queue life
 - Queue is self cleaning
 - Several default scenarios all result in purged queues
 - Responses with new syntax

CLEARIDLE

- Provides a unambiguous set of unsolicited responses to be received during an IDLE executed in the Authenticated State
 - IMAPURL is used to identify folders and UIDs
- Covers all state change needed to avoid a full synchronization at reconnection
 - All Folders
 - While in Authenticated state all folders are monitored
 - Folder state
 - Delete, Create and Rename events are communicated via unsolicited LIST responses
 - Mail State
 - Full BODYSTRUCTURE
 - Expunges

Draft Combination

- Mobile Mail Experience Improved by ...
 1. User perceived smoothing of mail reception
 2. Focusing on what mail is of interest to user
- CHECKPOINT/CLEARIDLE achieves first goal
- MSGFILTER achieves seconds goal