

SMTP Submission Service Extension for Future Delivery
<draft-vaudreuil-futuredelivery-00.txt>
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ABSTRACT:

- Future delivery of messages is already a widely-deployed concept in the voice messaging community
- Desirable to have concept in email for feature parity within UM
- Extension allows user to submit message to be delivered at a specified time in the future.
- Submission agent holds message until appropriate time, then commences delivery.
- Desirable to allow user to manipulate, via IMAP, these messages prior to delivery

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FRAMEWORK:

- New EHLO keyword: FUTUREDELIVERY
- Optional parameter for keyword: max-future-delivery-interval

max-future-delivery-interval = [1*9DIGIT]
measured in seconds, value of 0 indicates no limit

- New MAIL command parameter: AFTER

"AFTER="[1*9DIGIT]

- New DSN per-message field: Future-Delivery-Date

"Future-Delivery-Date:" date-time

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CAVEATS:

- Appropriate ONLY for submission agents
- MUST be used in conjunction with the AUTH extension
- Need to pay attention to interaction with DELIVERBY extension

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ISSUES:

- Future delivery messages may be stored in the subscriber's message store. If this is the case, these messages should be accessible via IMAP.
- Need to define a standard folder for holding future delivery messages?
Outbox, Future Delivery, etc
- How is message stored in this folder? The full SMTP envelope needs to be stored so that the recipient list and any extension information are present when delivery commences. Batch SMTP format?
- What happens when user moves messages out of the folder? What happens when a user moves a message into the folder, and it doesn't have an envelope?
- Need a quota on future-delivery messages?
- Is a separate draft required for the above concerns?