Reliable Messaging Parameter Combinations

This note records the results of a using reliable messaging parameters in different combinations.

DeliverySemantics:

- Duplicate Elimination (Y)
    - Idempotency at the To party
    - From Party does retries
    - IM Party does retries
- BestEffort (N)
    - To Party does no idempotency
    - From Party does no retries
    - IM Party does not do retries

DeliveryReceiptRequested:

- signed/unsigned (Y)
    - To Party only sends back a Delivery Receipt Message
- None (N)
    - To Party does not send anything

AckRequested:

- signed/unsigned (Y)
    - "Next" MSH (either IM or To Party) sends back an Acknowledgment Message
- None (N)
    - Neither IM nor To Party send anything

Combination	DeliverySem	ackRequested	DRRequested	Comment	SyncReply=Y	SyncReply=N
1	Y	Y	Y	Reliable messaging at IM and end-to-end. IM and To Party can issue DFNs if can't deliver. 0&00 behavior.	IM and To MSH must wait for business response (including business signals) before responding.	
2	Y	Y	N	Reliable messaging at IM only. 0&00 behavior only if all IMs are reliable		
3	Y	N	Y	Reliable messaging end-to-end only. 0&00 behavior retry interval must be based on end-to-end transmisstion		
4	Y	N	N	Idempotency checking only by To Party and IM		
5	N	Y	Y	Duplicates possible. At least once at both IM and end.		
6	N	Y	N	Duplicates possible. At least once at the IM		
7	N	N	Y	Duplicates possible. At least once at the To Party.		
8	N	N	N	Best effort.		