Downgrading TODO

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- Envelope downgrading
 - Dowingrading requires IMA-Downgraded-From, IMA-Downgraded-To header definition in utf8header draft.
- Selecting header downgrading method
- Received header issue
- I suppose header contains IMA onlyALT-ADDR and ATOMIC is only in envelope.

selection of Header downgrading methods

- Received header needs another mechanism
- Do nothing
 - It is not allowed.

MIME Encapsulation

- ■Downgrader encapsulates entire mail as MIME part.
- ■It requires new MIME type: Message/i-Email
- Here is sufficient definition to implement
 - In my opinion, it will be clear that downgrading process always generates From and To headers from envelope-from, envelope-to.
- It preserve all header information
 DKIM with EAI may work.
- Downgrading/Deciding is easy to implement
- Downgraded message is not visible with EAI incompliant MUA
 Unknown MIME message type

Header conversion

- Defining down-conversion methods for each header
- Not fully defined
 - I did not list all headers
- I did not write down-conversion method clearly.
 - ■If this is selected.
 - I need help to write clear definition and implementation method
- It requires i-Email header can note downgraded utf8header.
 i-Email: 1.0/downgraded
- Hard to implement MTA downgrading process
 - Downgrader MUST parse From, To, CC header in accordance with RFC2822 ABNF
- Hard to preserve all header information
 - ■MUA may encode headers as RFC 2047 encoded string.
 - ■DKIM with EAI/downgrading may have problems.
- Downgraded message is visible with EAI incompliant MUA

Header encapsulation

Defining encapsulation header.

All headers required are encapsulated by RFC 2047 with new header. Downgraded: HeaderName: Encoded-Header-Value

- It requires i-Email header can note downgraded utf8header.
 i-Email: 1.0/downgraded
- Here is sufficient definition to implement
 It requires new 'Downgraded' header definition

It requires new 'Downgraded' header definition in utf8header doc.

In my opinion, it will be clear that

downgrading process encodes all From, To, CC headers and always generates From and To headers from envelope-from, envelope-to.

- It preserve all header information
 DKIM with EAI may work.
- Easy to implement Downgrading/Deciding.
- Downgraded message is visible with EAI incompliant MUA
 To,CC and From headers will always be 'Downgraded: From: original-from'.