

■ Downgrading TODO

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- Envelope downgrading
 - Downgrading requires IMA-Downgraded-From, IMA-Downgraded-To header definition in utf8header draft.
- Selecting header downgrading method
- Received header issue

- I suppose header contains IMA only
 - ALT-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 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'.