Last-Diverting-Line-Identity

SIP requirement:

eg. 3GPP CDIV service

INVITE
Request-URI -> B
From -> A (Presentation Number)
P-Asserted-Id -> A (Network Number)

INVITE
Request-URI -> C via Carrier Preselect Operator
From -> A (Presentation Number)
P-Asserted-Id -> A (Network Number)
History-Info -> B (Presentation Number) index=1
   -> C index=1.1
Last-Diverting-Line-Identity -> B (Network Number)

Last-Diverting-Line-Identity – allows Carrier Pre-Select Operator on the diverted leg to bill and verify service for B.
Last-Diverting-Line-Identity

Worse case ETSI ISDN / UK ISUP interworking requirement – we have to deal with – slide 1:

1 - INVITE
Request-URI -> X
From -> A (Presentation Number)
P-Asserted-Id -> A (Network Number)
History-Info -> X (Presentation number) index=1

2 - INVITE
Request-URI -> B
From -> A (Presentation Number)
P-Asserted-Id -> A (Network Number)
History-Info -> X (Presentation number) index=1

3 - SETUP -> B
4 - SETUP -> Y
5 - FACILITY - Y
6 - FACILITY - Y
7

Partial Rerouting Y->C
(asking network B to do the Diversion)
Last-Diverting-Line-Identity

Worse case ETSI ISDN / UK ISUP interworking requirement – we have to deal with – slide 2:

1. **Request-URI** \(\rightarrow\) \(C\) via Carrier Preselect Operator
2. **From** \(\rightarrow\) \(A\) (Presentation Number)
3. **P-Asserted-Id** \(\rightarrow\) \(A\) (Network Number)
4. **History-Info** \(\rightarrow\) \(X\) (Presentation Number) \(\rightarrow\) \(\text{Placeholder for } B\) (Presentation Number) \(\rightarrow\) \(Y\) (Presentation Number) \(\rightarrow\) \(C\)
5. Last-Diverting-Line-Identity \(\rightarrow\) \(B\) (Network Number)
6. **Last-Diverting-Line-Identity** allows Carrier Pre-Select Operator on the diverted leg to bill and verify service for \(B\).
7. **Partial Rerouting Y->C** (asking network \(B\) to do the Diversion)
Last-Diverting-Line-Identity

Why not use History-Info:

History-Info used for mapping to Original Called Number

/ Redirecting Number – 3GPP/IETF – these parameter are used for display and have no screening indicator.

Unclear where you would place the ‘network number’ information in the index structure of History-Info when we already have the Presentation Number information in the structure.

At the boundary of the UK public network the Last-Diverting-Line-Identity – needs to be removed.
Last-Diverting-Line-Identity

What next:

I would like to get this ID into an informational RFC

Technical comments received on ID itself:

= should be =/