

Changes in SIP Main Specification

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draft-ietf-sip-2543bis-01

- important: nothing that's not backward compatible (almost)
- **no** SIP/2.1 or similar
- lots of clarifications
- marked by changebars in PS/PDF
- list in back of document
- will update I-D about monthly
- on-going implementations should track I-D – it's in better shape than the RFC...

Clarifications

- ACK forwarding
- consistency tables & text
- e-e/h-by-h \longrightarrow modification properties
- call state diagram \longrightarrow transaction state
- ...

Header Additions

Alert-Info: additional alerting (ringing) information

```
Alert-Info: <http://www.example.com/sounds/moo.wav>
```

Call-Info: caller/callee web page, icon, ...

```
Call-Info: <http://www.example.com/alice/photo.jpg> ;purpose=  
<http://www.example.com/alice> ;purpose=info
```

Content-Disposition: render, script

```
Content-Disposition: session;handling=required
```

Content-Language: language of (HTML) response

```
Content-Language: de
```

In-Reply-To: call-ID returned by this call

In-Reply-To: 70710@saturn.bell-tel.com

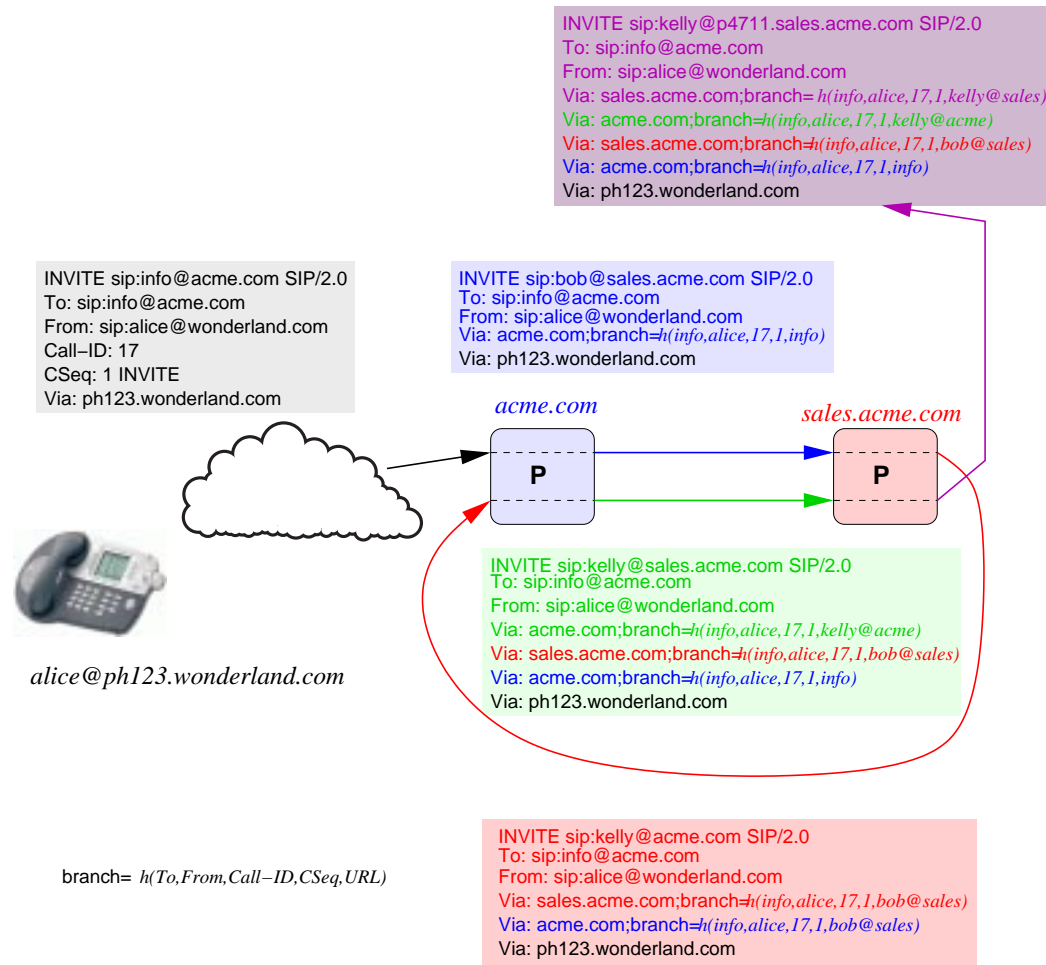
Supported: features supported by requestor

Supported: 100rel, timer

CANCEL Behavior

- separate transaction from INVITE
- thus, INVITE gets 487 (Transaction Terminated)

Spirals



Spirals

- modified branch request for stateless loop detection:
 1. loop: $H(\text{To}, \text{From}, \text{Call-ID}, \text{received Request-URI}, \text{CSeq \#})$
 2. branch: function of branch taken, e.g., $H(\text{outbound Request-URI})$ or numeric branch id

Others

- Record-Route for whole call leg, but should be in each request
- omit `org.ietf` prefix for “official” extensions
- SRV now integrated since standards-track RFC
- UAs need to support UDP
- Contact for 4xx, 5xx, 6xx?
- URI syntax uses URL escaping instead of quotes
- IPv6 literal addresses
- added extension parameters to all parameterized headers
- CRLF mandatory for sending

What to add in RFC 2543bis?

- backward compatible (including optional features)
- small spec weight (< 1 page)
- likely to see implementations soon

Next steps?

- document features, headers, ... that are implemented → SIP bake-offs
- are there features that should move to other specs:
 - lack of maturity
 - lack of 2 independent implementations
 - spec length / reward too low
- candidates:
 - Via hiding
 - PGP
 - ...?
- radical idea: session setup (INVITE/CANCEL/ACK) separated? – lots of work, likely to confuse current implementors?