

# NETCONF over BEEP mapping

Eliot Lear, Ken Crozier,

David Perkins

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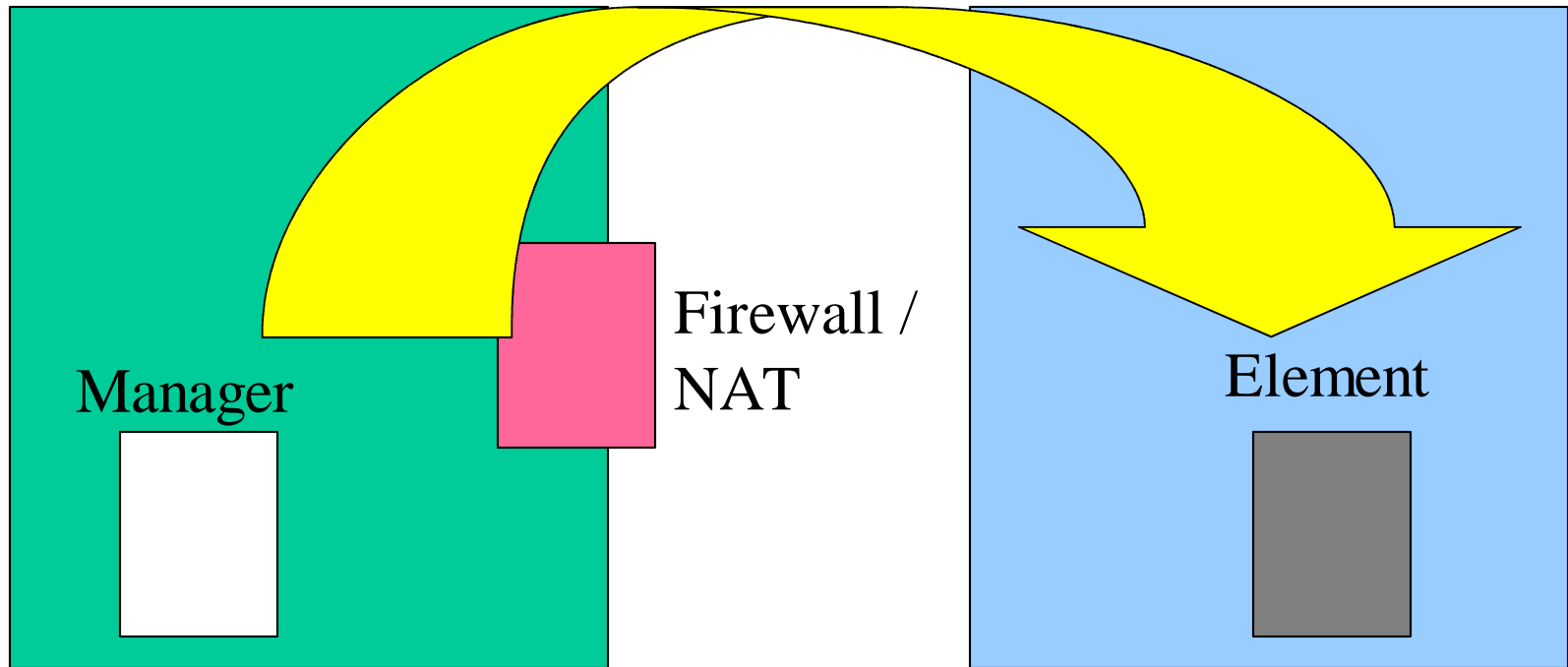
# Draft Details

- draft-ietf-netconf-beep-00.txt
- Substantially the same as what was in the base specification
- There will be another rev once the base protocol settles down.

# WHY BEEP?

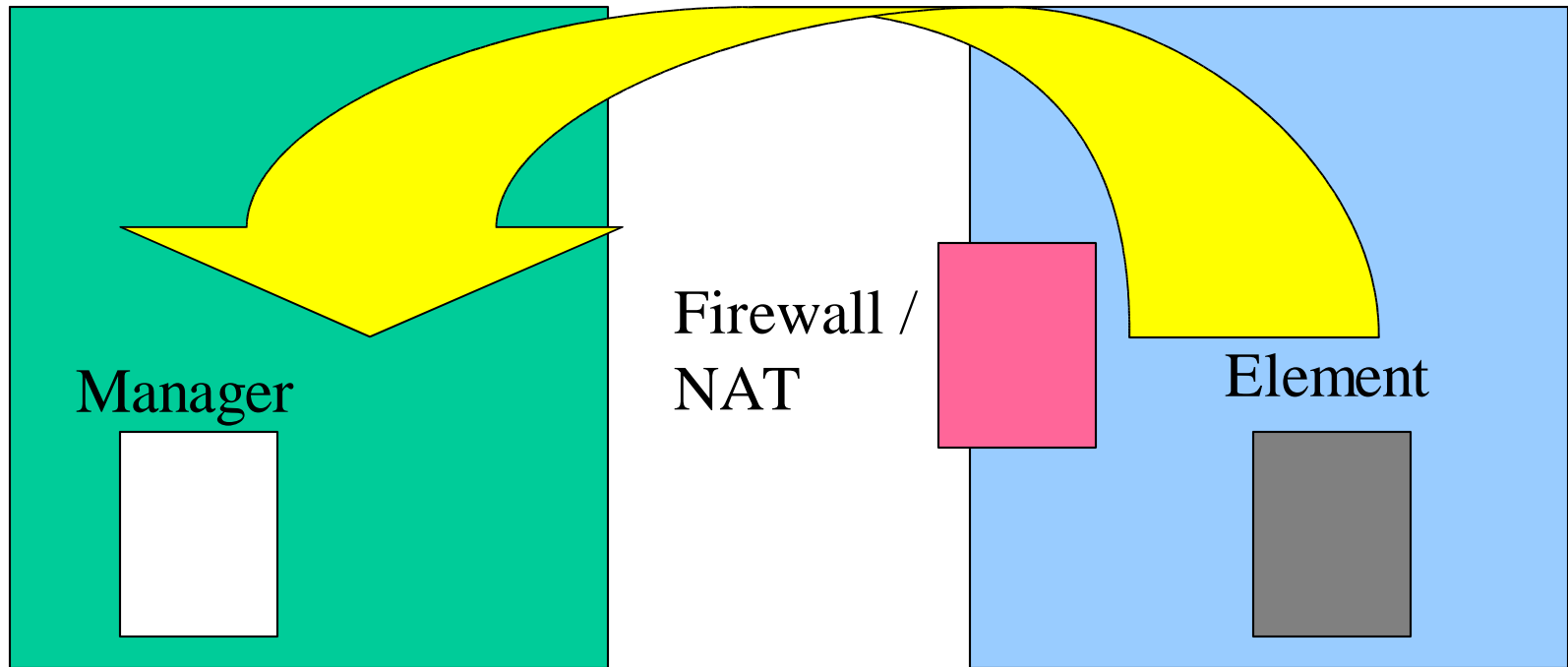
- Good framing for XML
- Peer to peer provides good “reversability” characteristics
  - Either side can initiate a connection
  - Either side can initiate transactions
  - makes getting through firewalls and NATs easier
- Ease of integration with other standards (reliable SYSLOG – RFC 3195)
- Multichannel support is a natural for BEEP

# Directionality



Here, TCP is generally sufficient.

# Directionality



Now, protocols that are peer to peer are preferred.

# Security Considerations

- BEEP standard includes SASL and TLS profiles
- SASL allows for ease of integration with other security mechanisms  
(plain/MD5/CRAM-MD5/GSS/Kerberos)

# Why NOT BEEP?

- It's not SOAP/HTTP
  - the latest craze
  - problem is somewhat transactional
- It may be just more complex than most operators would want

# What's left to do?

- Consider further integration in the mapping and the <RPC> tags (Eamon O'Tuathail's comments)
- Boils down to this:
  - Do we want the XML to look the same no matter how it gets to and from the device?
- Channels Reconsidered
  - Depending on what happens with the NETCONF base draft, we'll need to make changes.
- And then there's SOAP