





## Why Asterisk and SS7?

- Startup Cost "The SS7 tax"
  - Traditional equipment is expensive
- Utility
  - Asterisk is a really great application server. It also can bridge a lot of different protocols together of different technologies.
- Long-term Cost
  - Lower per-minute interconnect rates
- Why not?





#### Welcome to Libss7

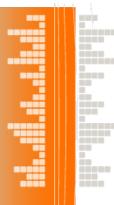
 Small library, for tight integration of Asterisk with SS7 – like libpri

Open source (GPL)

Designed to support multiple variants

Easy to understand





# Libss7 - Current Capabilities

- MTP2 implementation
  - T1/E1 transport, 64kbps and 56kbps links
- MTP3 implementation
  - very basic functionality
- ISUP
  - Getting quite robust as far as features go
- Supports ITU and ANSI style
  - Variants are easy to add





# **Typical Configurations**

- Signalling and bearers must terminate on same machine
- Linkset configs:
  - One signalling channel, many bearers
  - Multiple redundant signalling channels, many bearers
  - Multiple linkset configurations are possible as well





#### What can I do with it?

- Anything that Asterisk can do
- Some examples of what other people are doing with it:
  - IVR server
  - Voicemail server
  - Call routing and bridging





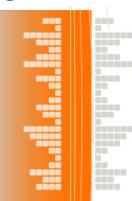
### Some Future Directions

SCCP/TCAP support – DB lookups

 MAP support – SMS + mobile phone center integration

Clustering support





## libss7 Resources for Help

- Asterisk-ss7 mailing list (lists.digium.com)
  - Me
    - AIM: MatthewFredricks
    - Jabber: creslin@digium.com
    - Email: creslin@digium.com