The SIP enabler

We enable SIP communication for business

“SIP Trunking is no longer a Nicety it’s a Necessity” - Jonah Fink

- SIP is an important and beneficial component of the evolution of business communication
  - Lower cost
  - Single network
  - Centralized call management with local numbers
  - Evolution to global connectivity
  - Revolutionary use of video and other media
  - Easier disaster recovery

- But, implementation is requires an Enterprise Session Border Controller

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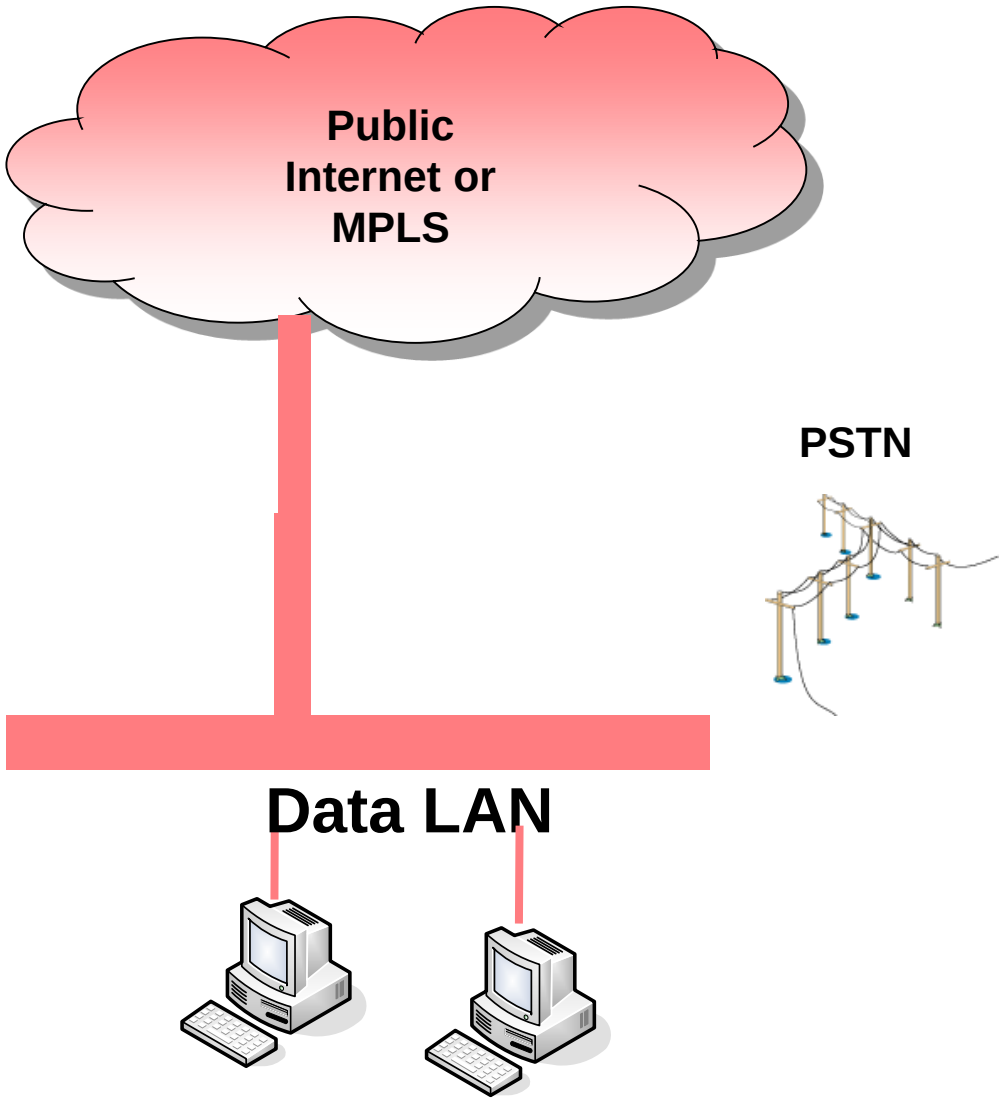
Would you ever do this?



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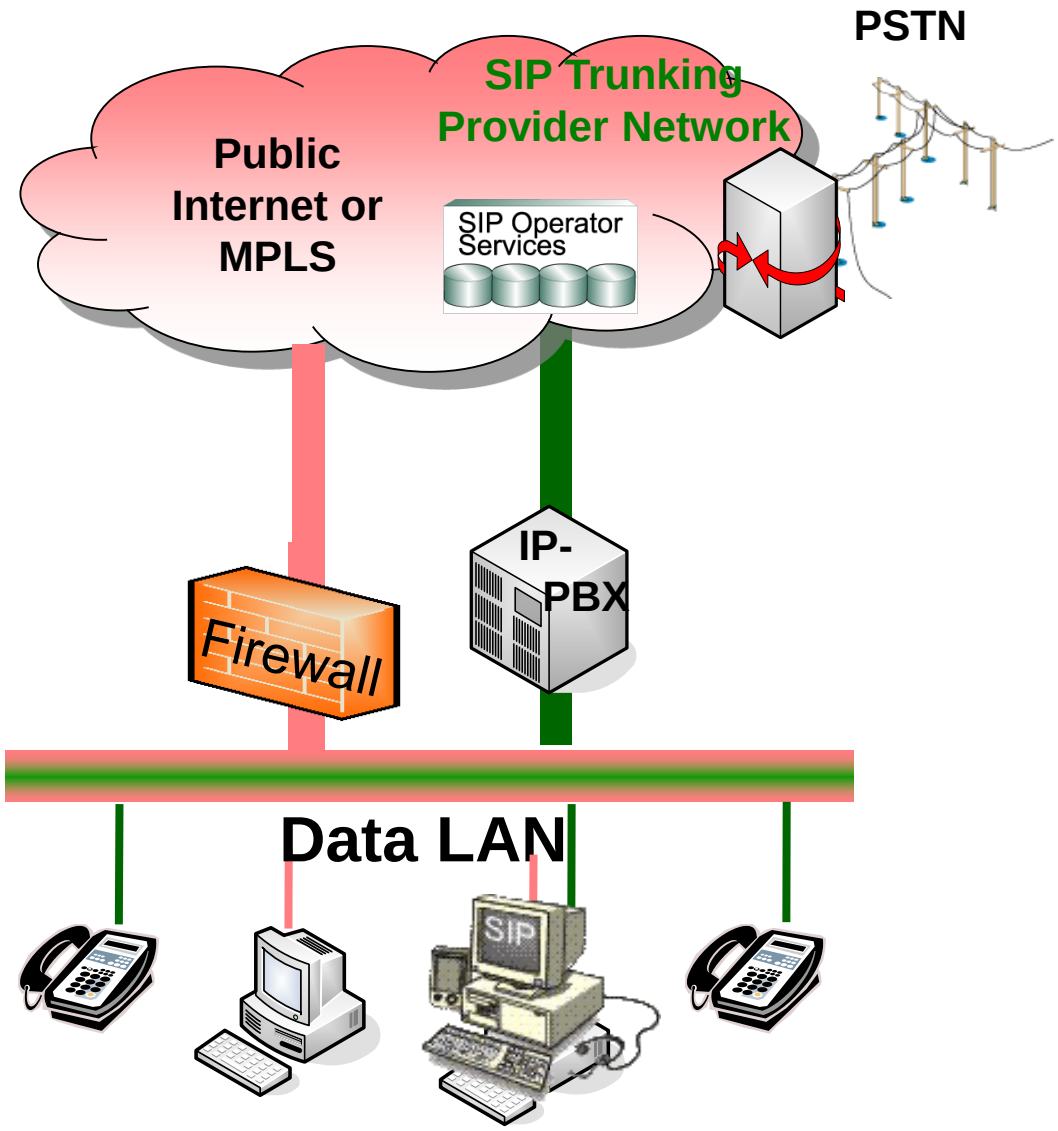
PBX Exposed: Not Recommended



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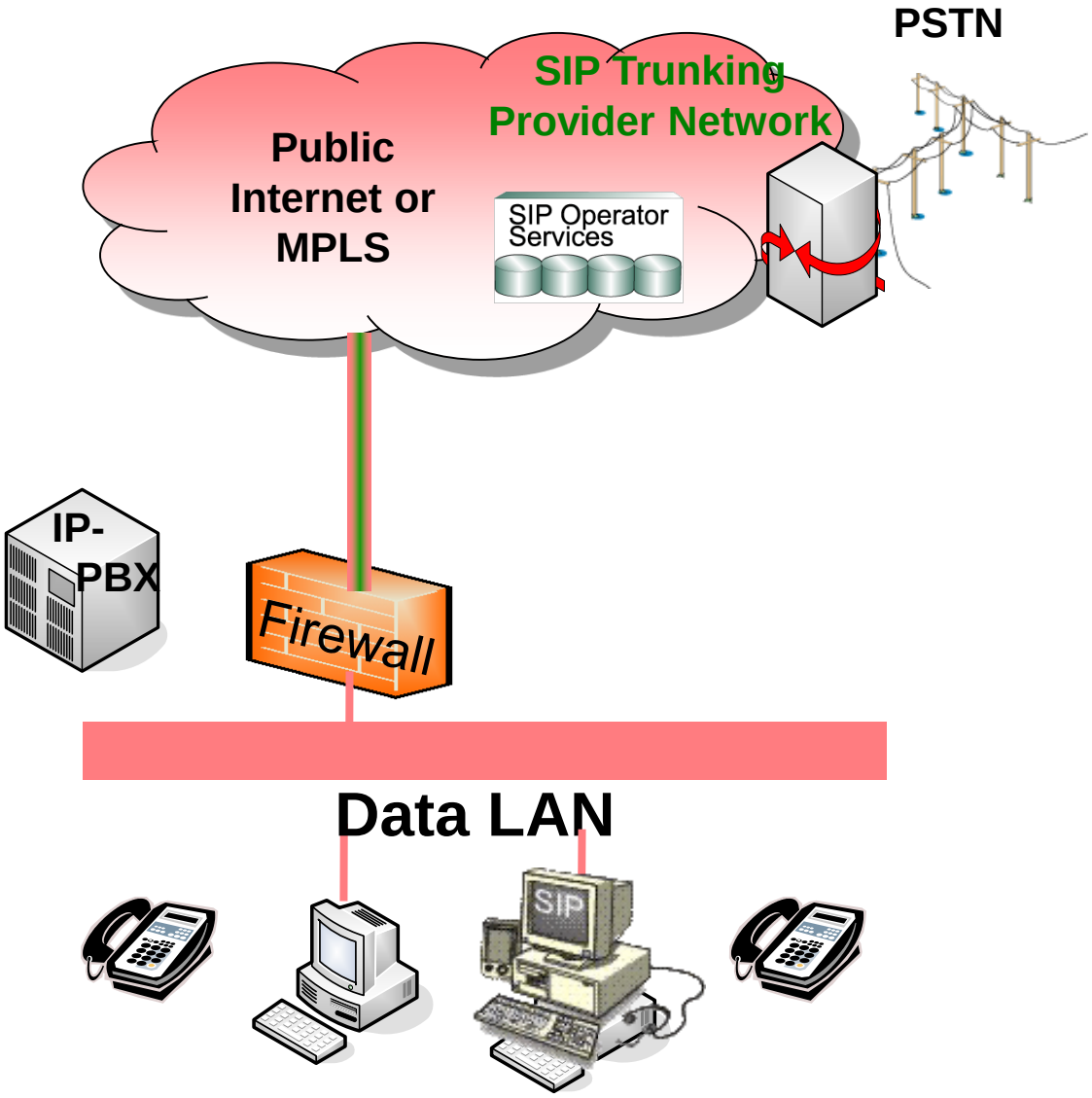
NAT Breaks SIP: Not Possible



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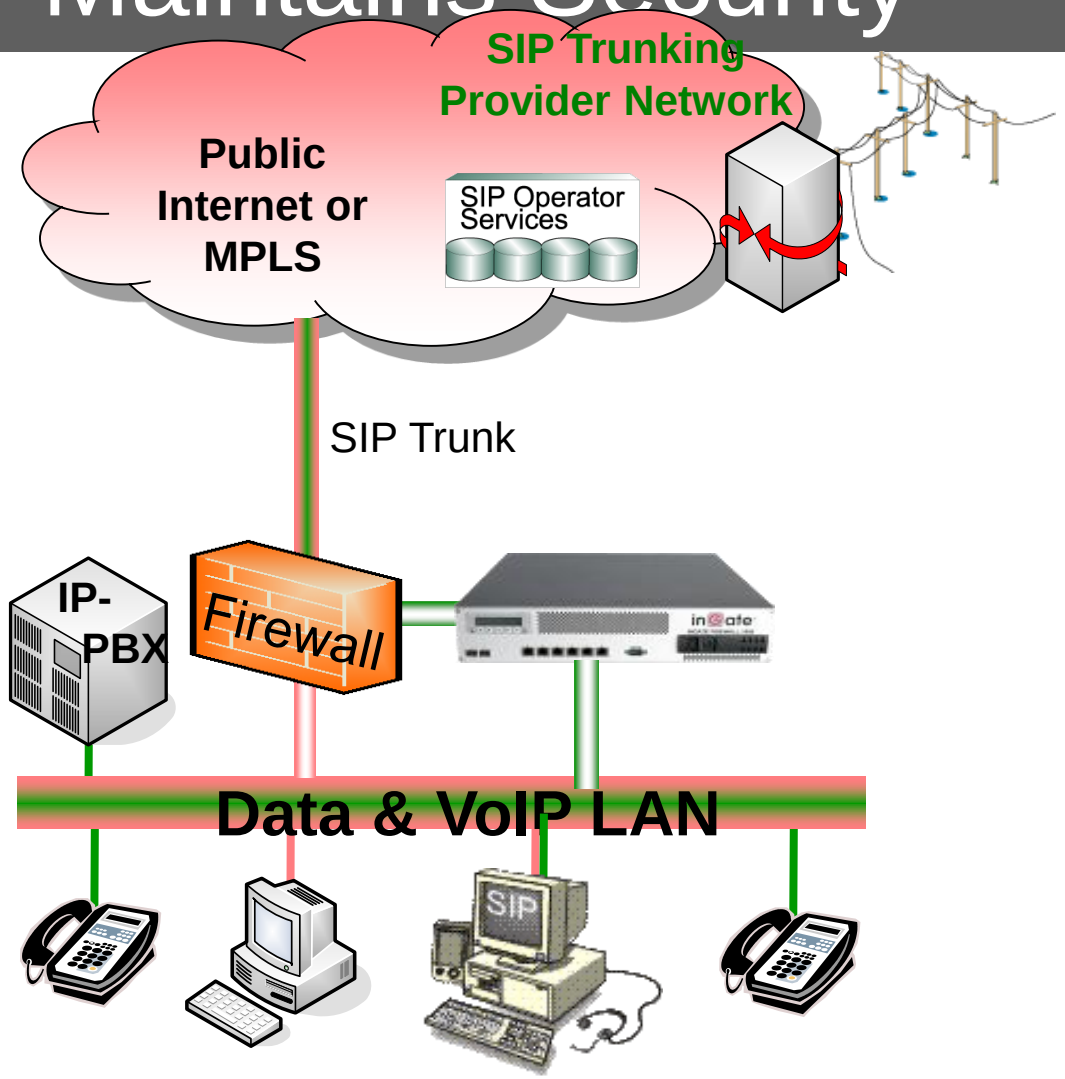
ESBC Resolves NAT and Maintains Security



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What is an ESBC

- Device that:
  - Sits at the border between an enterprise and the Wide Area Network
  - Controls how Sessions are delivered between the enterprise and service provider
  - Analagous to a data firewall but for SIP and related media

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Why does the Enterprise need an SBC?

- Firewall traversal
  - Enables placement of the PBX behind the firewall
- Normalization SIP signaling
  - To insure interoperability with the service provider
- Far End NAT Traversal
  - Support for Remote Workers
- Disaster recovery
  - To address multiple PBXs or providers
- Quality of Service
  - To prioritize voice
- Demarcation Point
  - MOS scores
  - Logging and Wire Shark traces

- Deep SIP Packet Inspection
  - To keep the PBX secure
- Intrusion Detection / Prevention
  - To prevent Denial of Service Attacks
- Toll Fraud prevention
  - Authentication processes
- Encryption
  - To enable private communications

An E-SBC Simplifies, Secures and Strengthens any SIP Implementation

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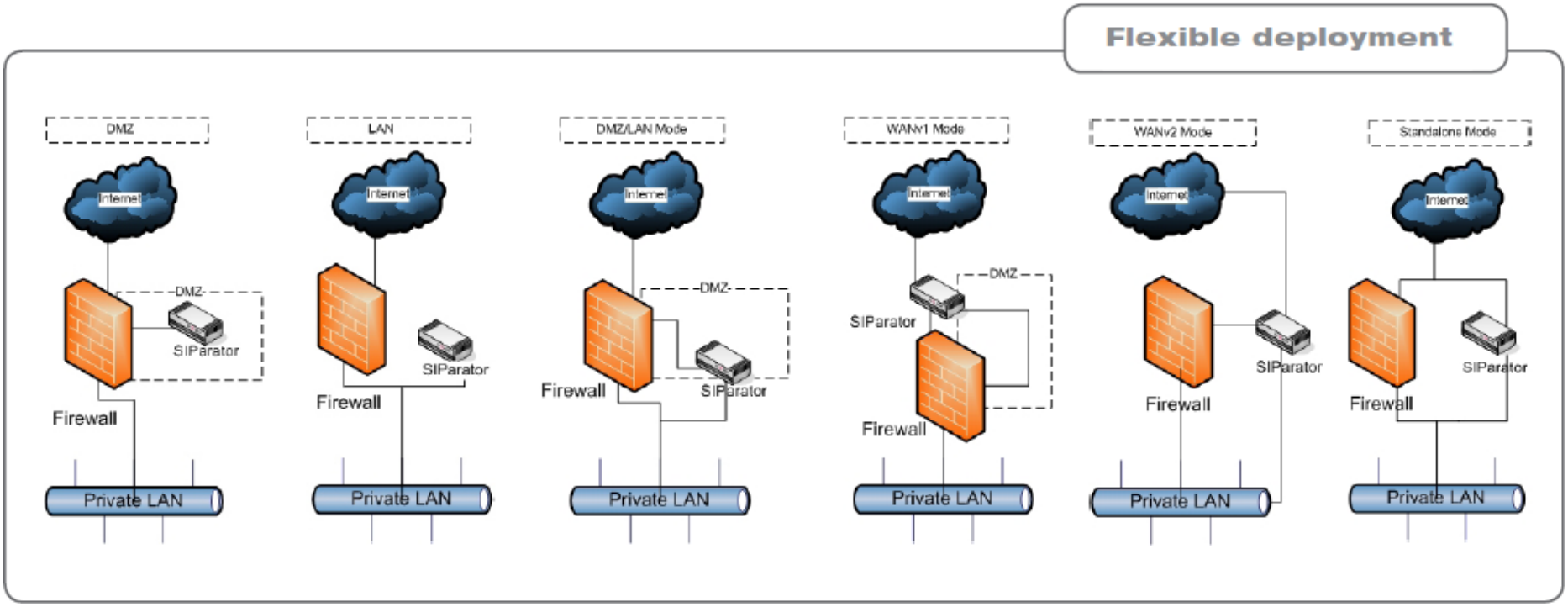
Network Installation Options



Install to the Customer's Specification

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Ingate's Product Family

The Ingate Product Range

SIParator® 21
Firewall® 1210

50 Calls*
200 Mbit/s
30 000 Packets/s

SIParator® 51/56/66
Firewall® 1510/1560/1660

150/400/1000 Calls*
500/700/900 Mbit/s
40 000/80 000/160 000 Packets/s

SIParator® 95/96/97
Firewall® 2950/2960/2970

1800/3000/8000 Calls*
4 500/ 4 500/ 5 000 Mbit/s
300 000/500 000/900 000 Packets/s

Software
Firewall/SIParator ®
25 - 10 000 Calls*

Can be installed on a
virtual machine or
natively x86 Linux Servers
(industry-standard PC architecture)

(*) Calls = Concurrent RTP Sessions = SIP Trunks

Cost-effective	Security
Supporting 1-10,000 sessions	Interoperability
Firewall and NAT traversal	Diagnostics
Support for Remote Workers	SIP routing

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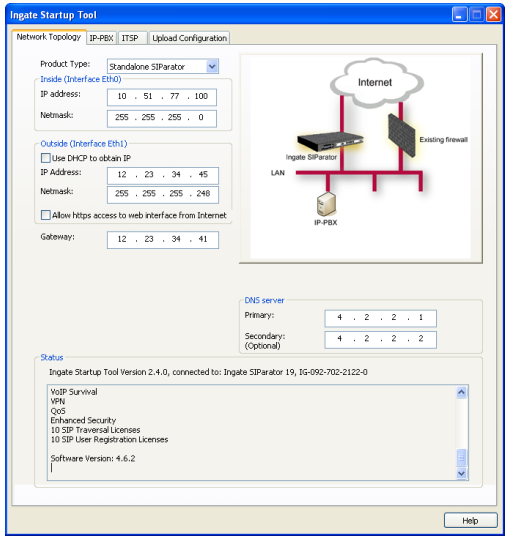
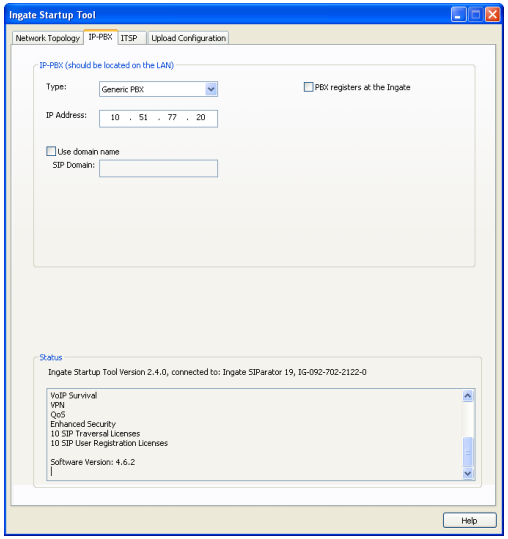
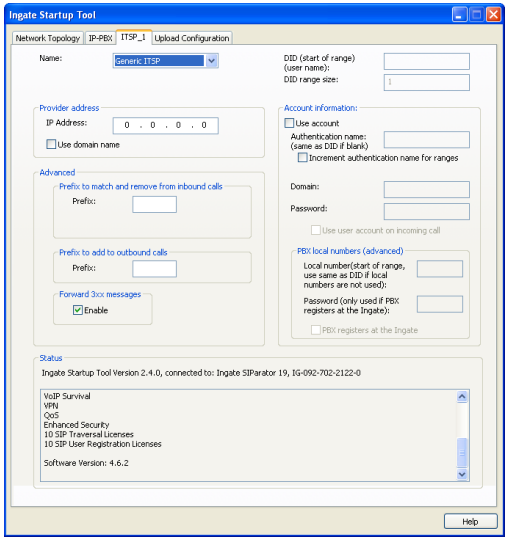
Ingate SIP Trunking Startup Tool



Network Topology



Select PBX



Select ITSP

20 minutes: start to call completion

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Benefits of Ingate E-SBC

- Functionality – All capabilities needed to deliver SIP to the enterprise
- Security – Inspection, control, IDS / IPS, and more
- Interoperability – Tested with major PBXs and SIP Trunking operators
- Flexibility – six deployment options
- Scalability – seven models for small to large deployments
- Simplicity – Start-up wizard reduces installation time
- Affordability – Cost benefit vs. risk of network vulnerability
- Reliability – MTBF in excess of 8 years; failover option available
- Experience –
  - First E-SBC delivered in 2001
  - Partnered with Shoretel since 2006

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