

Dialogic[®]
Making Innovation Thrive[®]



Build on Dialogic

Dialogic[®] BorderNet[™] 500

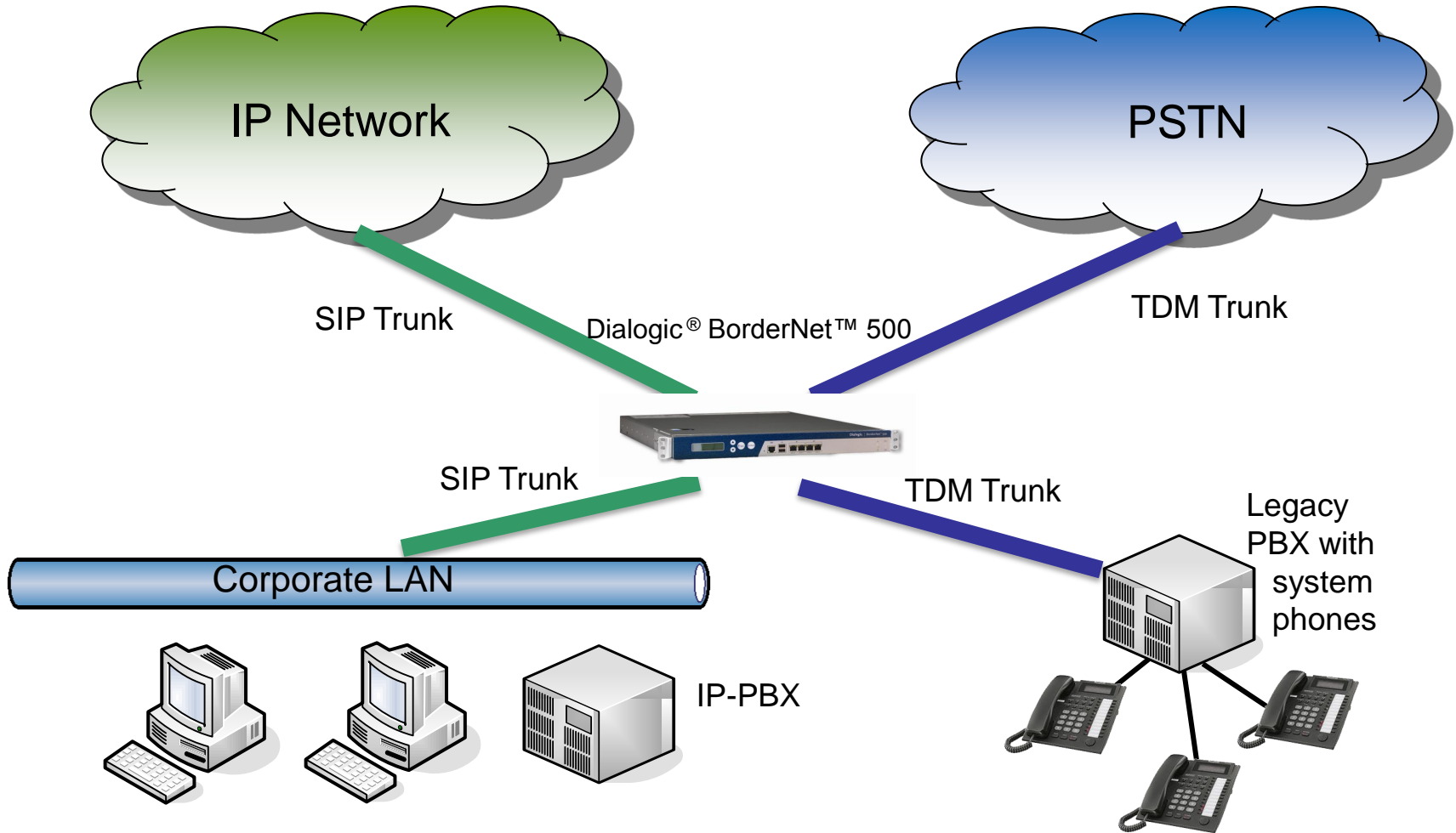
August 2010

SIP Services: Network Edge Constraints

| Constraint | Issue |
|---------------------------|--|
| Firewalls / NAT Traversal | Many enterprise firewalls are not capable of handling SIP traffic |
| SIP Interoperability | Many SIP-based services and SIP-based customer premise equipment are not interoperable out of the box |
| SIP Security | SIP services have security vulnerabilities such as denial of service attacks, SPIT and toll fraud |
| Legacy Integration | Many existing PBX systems are not SIP capable, or require substantial upgrades to support SIP |
| Demarcation | Many SIP services need a demarcation point or boundary between the service provider and the enterprise premise |

Dialogic® BorderNet™ 500

Any-to-Any Connectivity at the Enterprise Network Edge



Dialogic® BorderNet™ 500 Integrated Product

- January 2010: Ingate + Dialogic Press Release
 - Providing “any-to-any” PBX connectivity for SIP trunking, Dialogic Corporation, announced today that the company will incorporate the award-winning **SIP Trunking software module from Ingate® Systems** into a new enterprise border element designed to connect virtually any SIP trunk with virtually any PBX

Enterprise Session Border Controller



- NAT traversal
- SIP security
- ITSP interoperability
- IP-PBX interoperability

+

T1/ E1 / BRI to SIP Media Gateway



- SIP interoperability
- SIP security
- PBX connectivity
- PSTN connectivity / failover

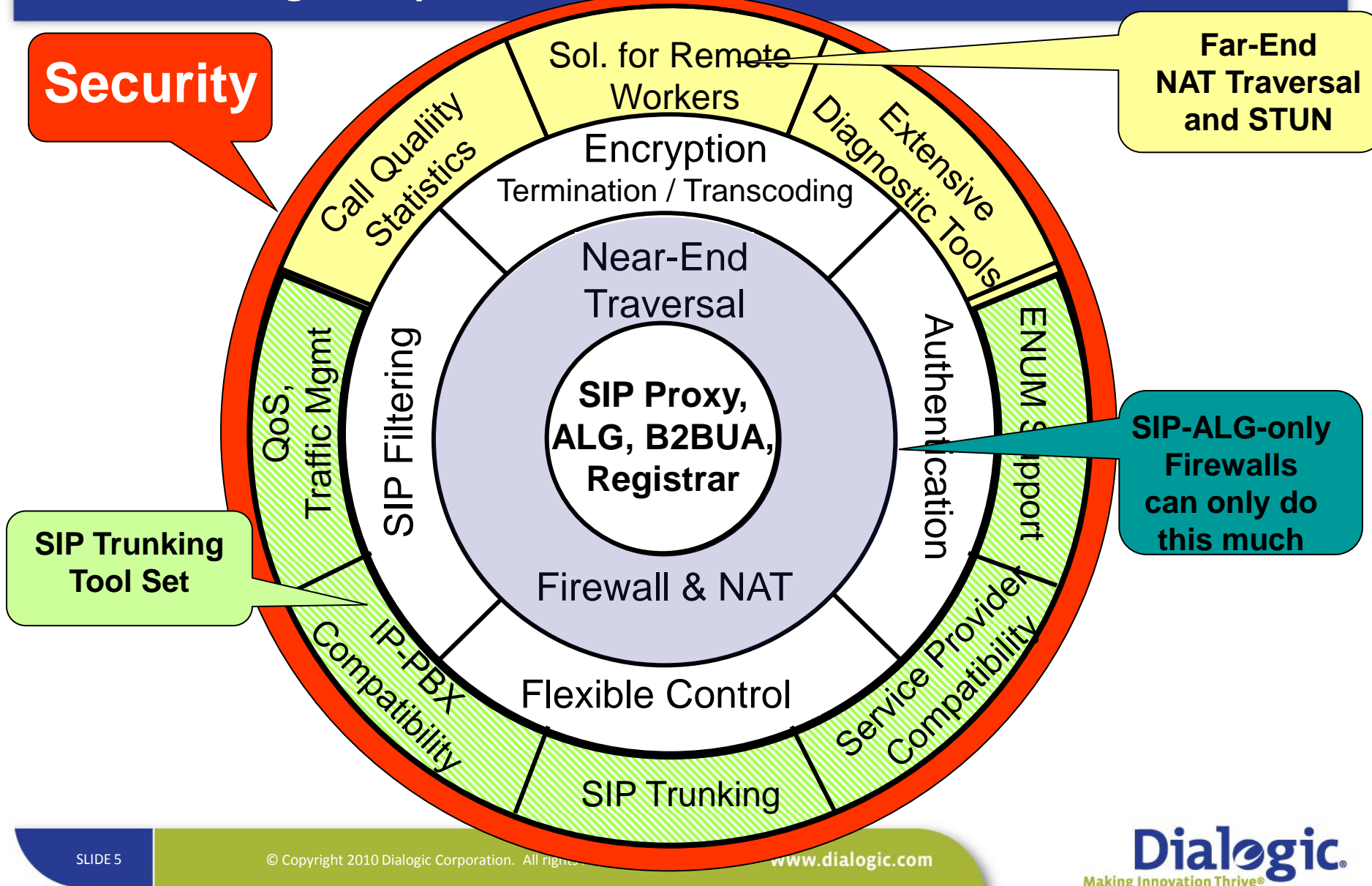
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Dialogic® BorderNet™ 500



- Any to Any Connectivity
for SIP Services

Dialogic® BorderNet™ 500: Ingate Siparator Software Module Functions



Dialogic® BorderNet™ 500

Interoperability (building on Ingate interoperability)

Service Providers

- 360 Networks
 - Airespring
 - AT&T
 - BandTel
 - Bandwidth.com
 - Broadvox
 - Cbeyond
 - Cellip
 - Cordia Corporation
 - Gamma
 - Global Crossing
 - IP-Only
 - Juma Networks
 - Level 3
 - Netlogic
 - Nexvortex
 - Nuvox
 - O1
 - Paetec
 - Primus
 - RNK Telecom
 - TDC
 - Tele2
 - Toplink
 - VoEX
 - VoIP Unlimited
 - Voxbone
- More in pipeline.....*

Carrier Equipment

- Acme Packet
- Broadsoft
- NexPoint
- Sonus
- Sylanro

SIP Trunks

Secure SIP Trunks



Dialogic BorderNet™ 500

PSTN

'PSTN' Trunk Emulation

PSTN

- Basic Rate ISDN (BRI)
- Primary Rate ISDN (PRI) T1 / E1
- T1/E1 Robbed Bit / CAS

IP-PBXs

- 3Com
- Aastra
- Digium / Asterisk
- Avaya
- Cisco Call Manager
- Ericsson MX-One
- Fonality
- Innovaphone
- Interactive Intelligence
- Iwatsu
- Microsoft
- Mitel
- NEC / Sphere
- Nortel
- Objectworld
- SER
- Shoretel
- Siemens
- SIP-Gear
- Swyx

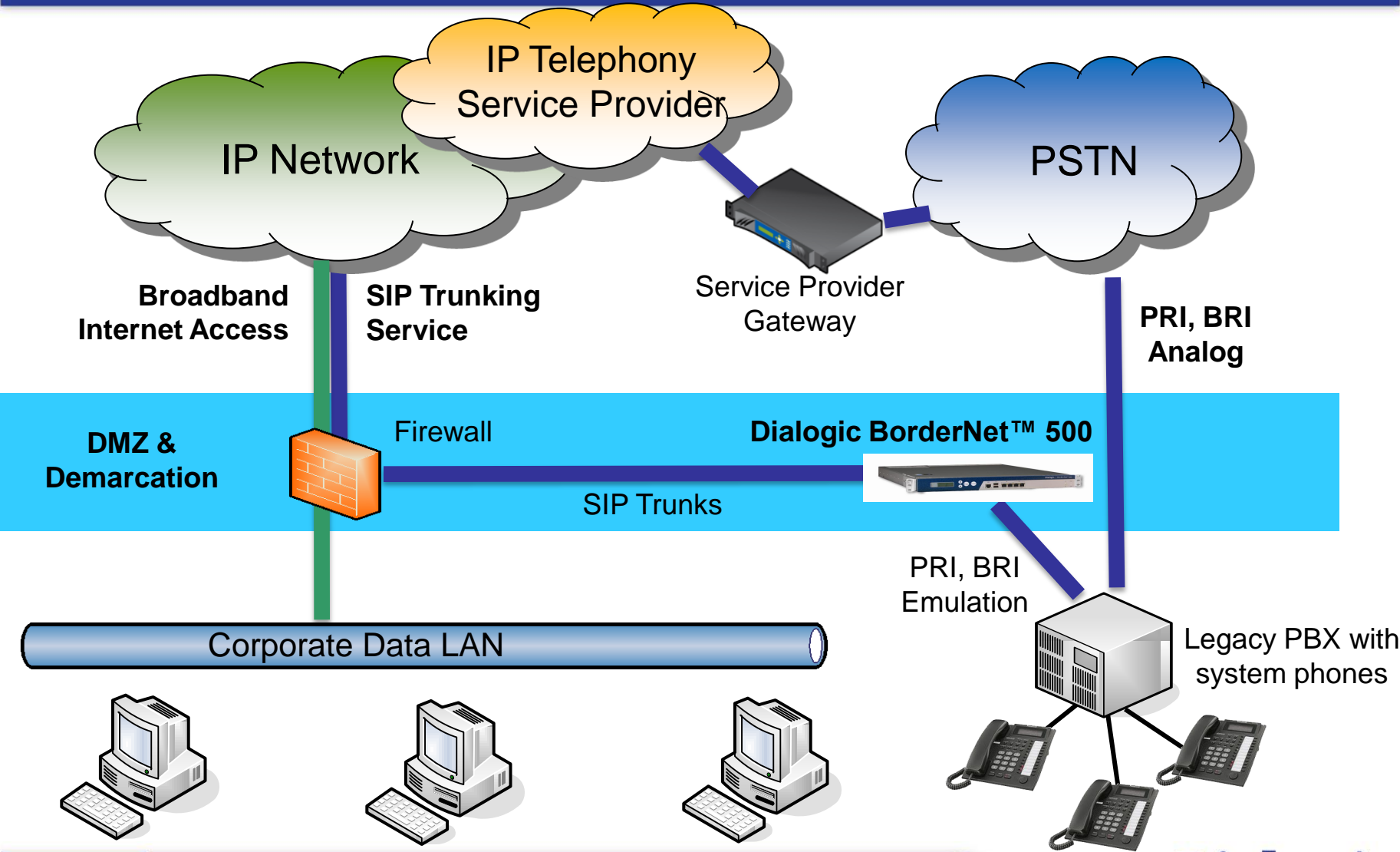
More in pipeline.....

Legacy PBXs

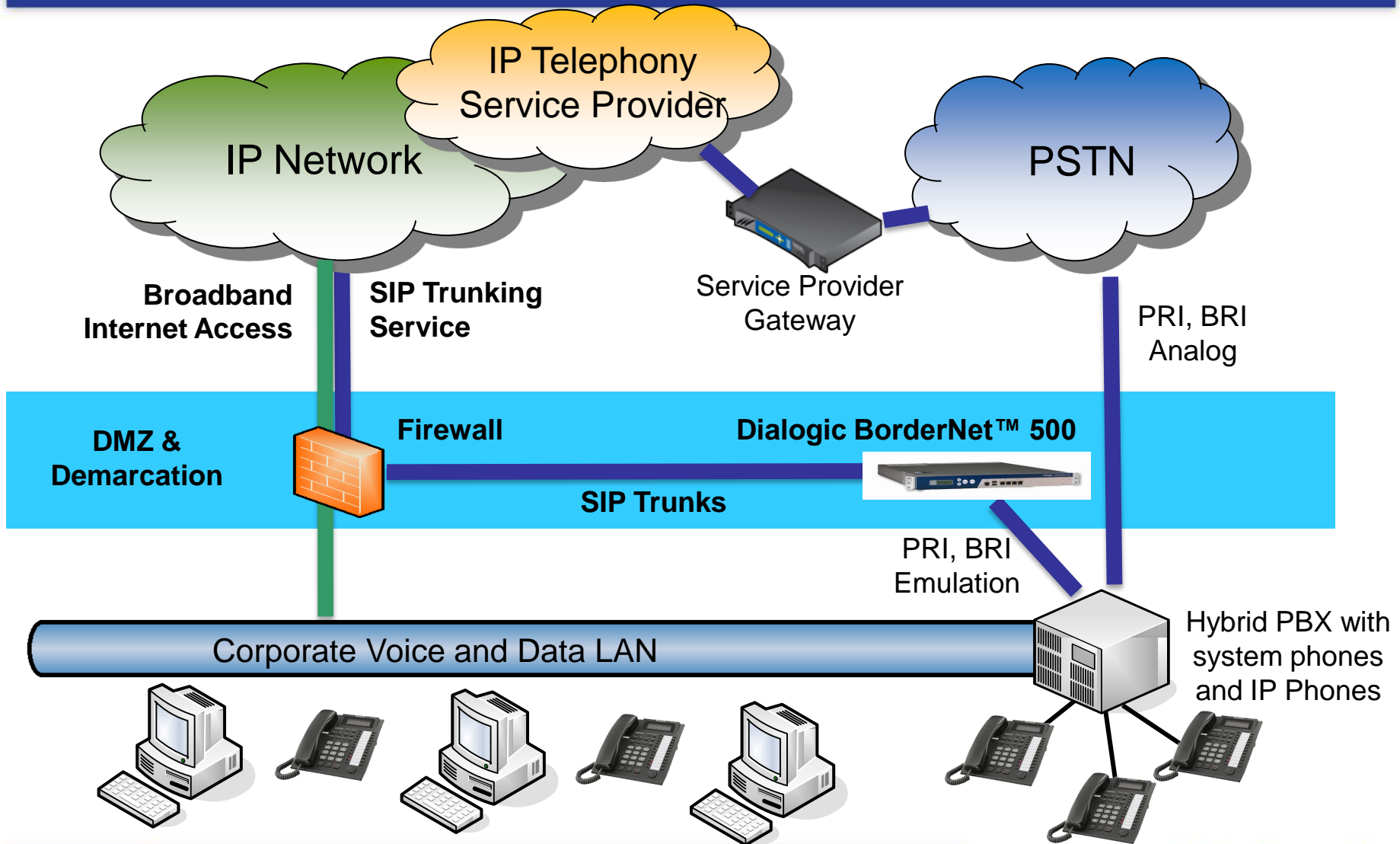
- Alcatel
- Avaya
- Ericsson
- Mitel
- Nortel
- Siemens
- Fujitsu
- Hitachi
- Intecom
- Matra
- Philips
- Rolm
- Tenovis
- Toshiba
- Iwatsu
- Intertel
- Panasonic
- DeTeWe
- Samsung

If it supports a T1 or E1 trunk port today, chances are good we can emulate the PSTN for it...

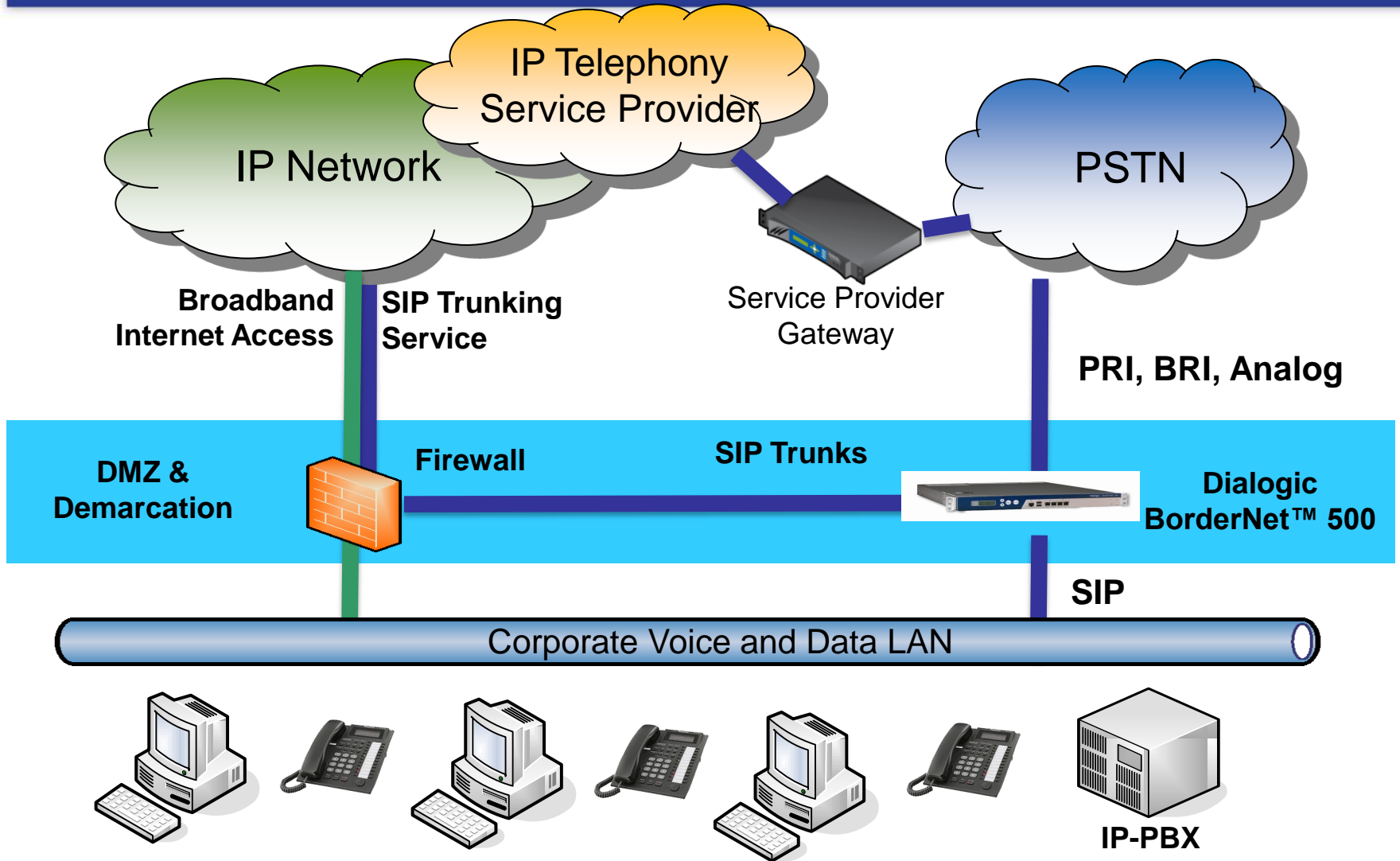
Dialogic® BorderNet™ 500: Legacy TDM PBX Connectivity



Dialogic® BorderNet™ 500: Hybrid PBX Connectivity (non-SIP Trunk Ready)



Dialogic® BorderNet™ 500 IP-PBX Connectivity



Dialogic® BorderNet™ 500: Preliminary Specifications

– Broad Product Line and Scalability

- 8 port, 16 channel - BRI to SIP
- 24/30 channel - T1/E1 to SIP
- 48/60 channels - Dual T1/E1 to SIP
- 96/120 channels - Quad T1/E1 to SIP

– Complete Support for SIP Trunking Services

- SIP Proxy, SIP Registrar
- SIP Interoperability
- SIP Connection set up (SIP + RTP)

– Complete PBX, PSTN, IP and Fax Protocol Support

- Analog FXO, PRI, BRI, ISDN, CAS, Q.SIG protocols
- SIP (RFC32XX), Microsoft SIP (TCP Transport), Microsoft Secure SIP: TLS
- T.30 (PSTN) Fax to T.38 (FoIP)
 - Exclusive V.34 Fax / FoIP speed



– Value Added Software Options

- Remote SIP Connectivity (Far-end NAT-passing incl STUN-server)
- QoS (bandwidth limitation and prioritization)
- Enhanced Security (IDS/IPS for SIP, SRTP and TLS)
- VoIP Survival (VoIP redundancy if Internet connection fails)
- SIP Registrar (SIParator software is used as the primary SIP registrar)

– Flexible, Cost Effective Support for Analog Devices

- Support for ATAs & FXS Gateways from Grandstream & Cisco
 - Easy to deploy - 1, 2, 4, 8, 24 port solutions
 - Low cost per port
- Interface for any number of Analog Devices
 - Conference Phones, Fax Machines, POTs, elevator phones, loading docks, checkout registers, paging systems, etc.

The right mix of features and densities for success with SIP Services



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