Address more customers by allowing many more IP PBXes to be connected to your VoIP service!

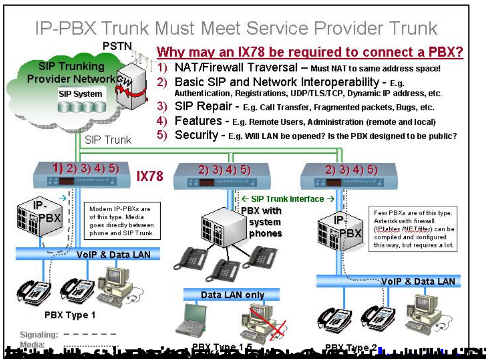
If you offer, or are planning to offer, SIP Trunking services, you need the Intertex IX78, a Router/Firewall/ADSL-modem with built in E-SBC (Enterprise Session Border Controller) functionality.

SIP Trunking – connecting business PBXs to operator's SIP based telephony infrastructure via IP instead of TDM lines – has opened up new market segments and new business opportunities for telecom operators. The shift to IP-PBXs at the customer site and to IP based infrastructure at the carrier side, is making SIP Trunking an obvious development. Today, almost every ISP, broadband provider or telco in general are planning to offer or are already offering SIP Trunking services.

However, getting business customers' telephony traffic, isn't just about having a good service and roll it out over a good IP pipe (dedicated/managed or over the Internet) – one also has to be able to connect the service to the customer's PBX in the customer's environment. Having a SIP Trunking interface on an IP-PBX is not sufficient!

Most obvious is the firewall/NAT traversal problem. Modern IP Phones and IP- PBXs reside on the business LAN which is protected by a firewall. But SIP communication does not pass ordinary firewalls or even NATs. A NAT/firewall traversal method is required, which is one of the functions the IX78 E-SBC provide.

In addition, there are many variants in the SIP capabilities and implementations in PBXs as well as the trunking service and delivery, something that the IX78 E-SBC can normalize. The picture below shows the functions and benefits the IX78 E-SCB brings when SIP Trunking various types of PBXs.


IP-PBX Trunk Must Meet Service Provider Trunk
PSTN
SIP Trunking Provider Network
GW
SIP System
SIP Trunk
Why may an IX78 be required to connect a PBX?
1) NAT/Firewall Traversal – Must NAT to same address space!
2) Basic SIP and Network Interoperability - E.g. Authentication, Registrations, UDP/TLS/TCP, Dynamic IP address, etc.
3) SIP Repair - E.g. Call Transfer, Fragmented packets, Bugs, etc.
4) Features - E.g. Remote Users, Administration (remote and local)
5) Security - E.g. Will LAN be opened? Is the PBX designed to be public?
1) 2) 3) 4) 5)
IX78
2) 3) 4) 5)
2) 3) 4) 5)
IP-PBX
Modern IP-PBXs are of this type. Media goes directly between phone and SIP Trunk.
← SIP Trunk Interface →
PBX with system phones
IP-PBX
Few PBXs are of this type. Asterisk with firewall (IPtables /NETfilter) can be compiled and configured this way, but requires a lot.
VoIP & Data LAN
Data LAN only
VoIP & Data LAN
SIP
PBX Type 1
PBX Type 1.5
PBX Type 2
Signaling:
Media:

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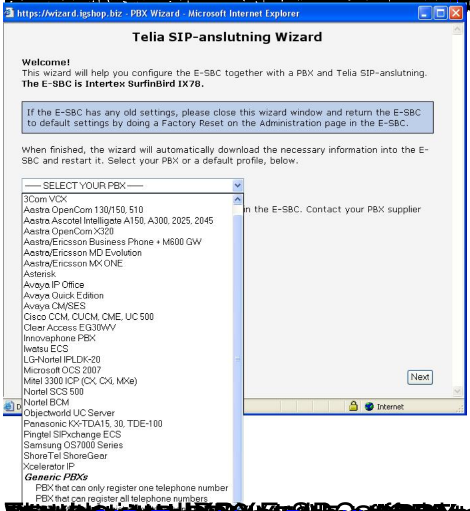
https://wizard.igshop.biz - PBX Wizard - Microsoft Internet Explorer
Next
Internet

Telia SIP-anslutning Wizard

Welcome!
This wizard will help you configure the E-SBC together with a PBX and Telia SIP-anslutning.
The E-SBC is Intertex SurfinBird IX78.

If the E-SBC has any old settings, please close this wizard window and return the E-SBC to default settings by doing a Factory Reset on the Administration page in the E-SBC.

When finished, the wizard will automatically download the necessary information into the E-SBC and restart it. Select your PBX or a default profile, below.

----- SELECT YOUR PBX -----
3Com VCX
Aastra OpenCom 130/150, 510
Aastra Ascotel Intelligate A150, A300, 2025, 2045
Aastra OpenCom X320
Aastra/Ericsson Business Phone + M600 GW
Aastra/Ericsson MD Evolution
Aastra/Ericsson MX ONE
Asterisk
Avaya IP Office
Avaya Quick Edition
Avaya CM/SES
Cisco CCM, CUCM, CME, UC 500
Clear Access EG30WV
Innovaphone PBX
Iwatsu ECS
LG-Nortel IPLDK-20
Microsoft OCS 2007
Mitel 3300 ICP (CX, CXi, MXe)
Nortel SCS 500
Nortel BCM
Objectworld UC Server
Panasonic KX-TDA15, 30, TDE-100
Pingtel SIPxchange ECS
Samsung OS7000 Series
ShoreTel ShoreGear
Xcelerator IP
Generic PBXs
PBX that can only register one telephone number
PBX that can register all telephone numbers

...n the E-SBC. Contact your PBX supplier

[illegible]