



IPNext190™

Hybrid IP-PBX System

High Performance Hybrid IP-PBX Solution

NAT Traversal Service for SIP Port
Blocking Issue Solving



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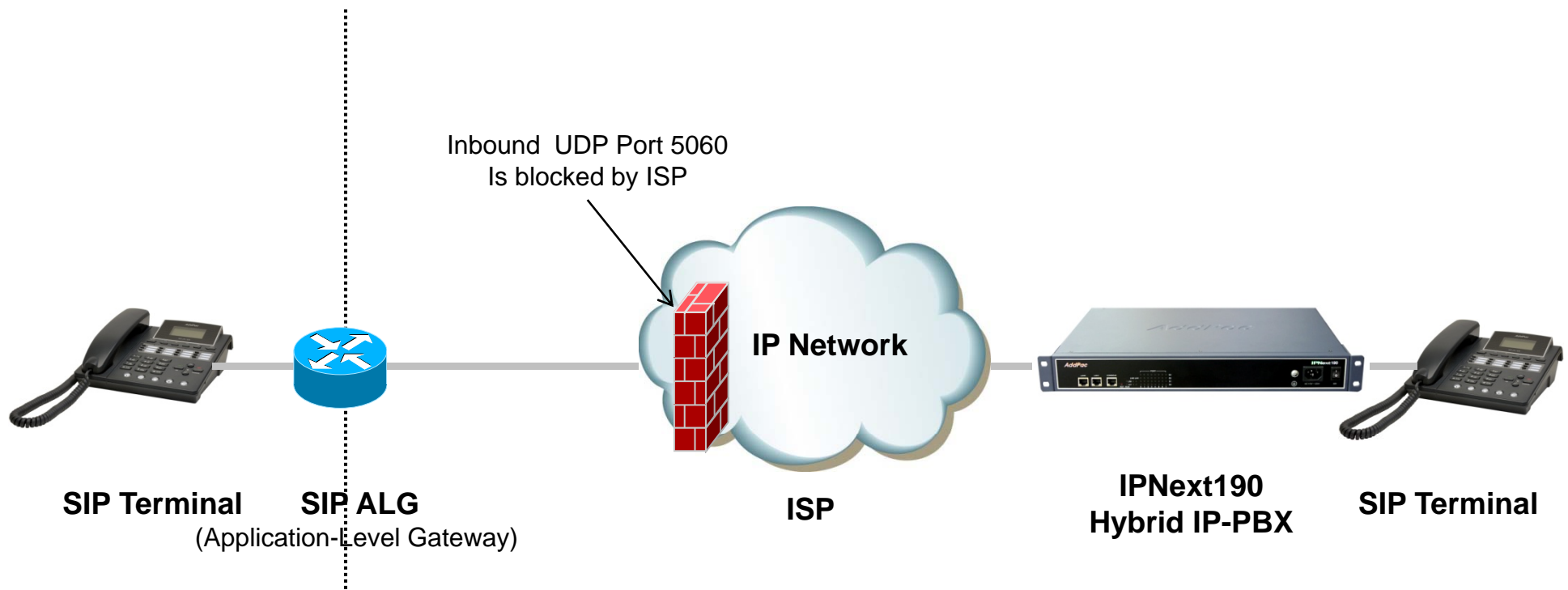
2011, Sales and Marketing

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Network Environment

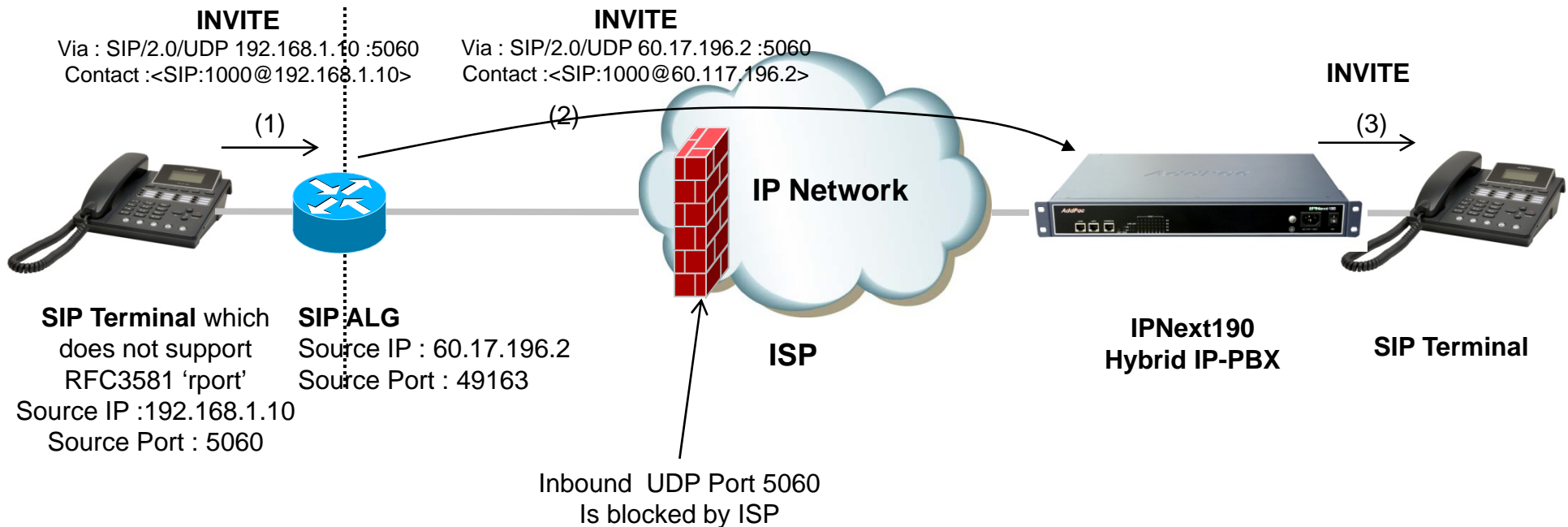


IP Telephony Service Network Environment

- Terminal : IP Phone, VoIP Gateway, etc
 - Located below the NAT
 - Do not support RFC3581 (An Extension to the SIP for Symmetric Response Routing)
- NAT : SOHO Router
 - SIP ALG(Application-level gateway)
 - Replace IP in "Via" header with the public IP and port
 - Replace "Contact" with mapped public IP and port
 - Replace SDP media address with public IP and port
 - In some network environments, the SIP ALG replace "Contact" port in REGISTER message only. It's caused by wrong configuration or abnormal operation.
- Network : ISP Network
 - Inbound UDP port 5060 is blocked by local ISP

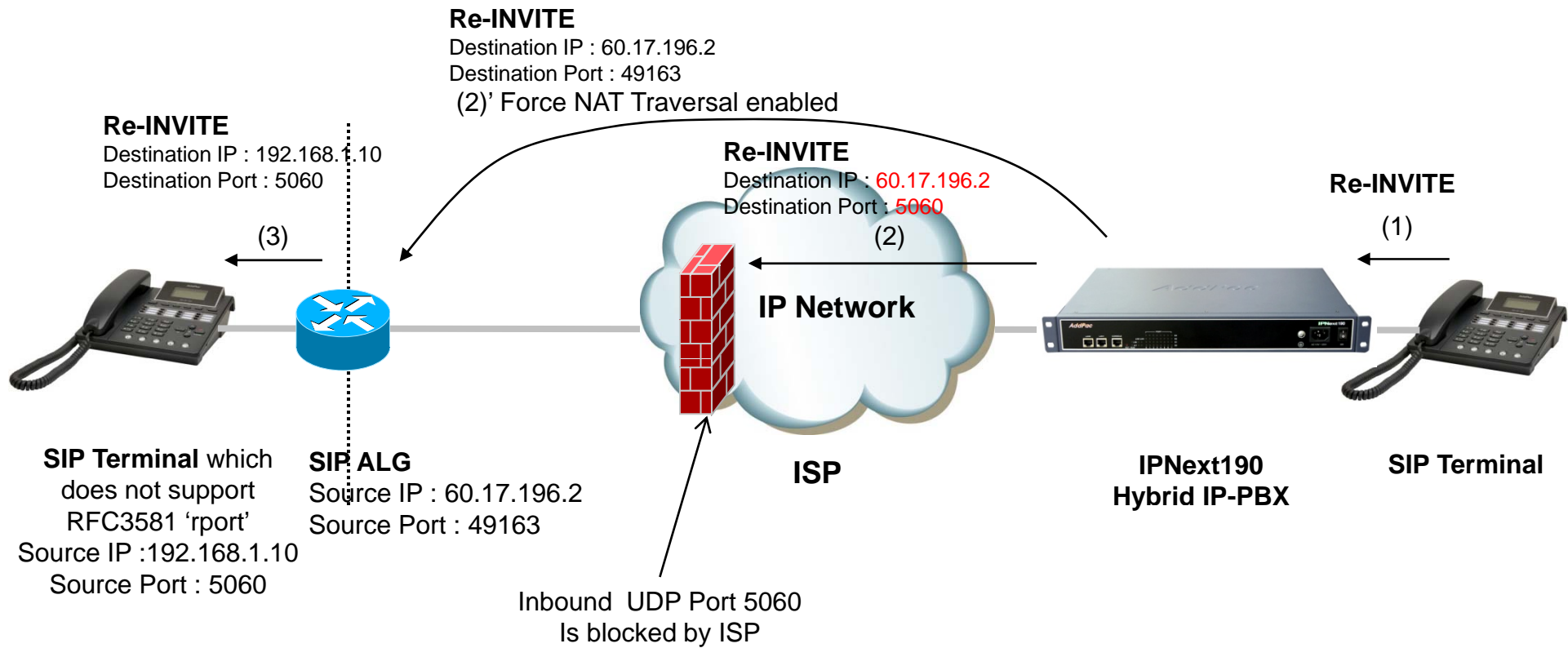
NAT Traversal Service

[Call Established]



NAT Traversal Service

[Change Session]



Smart Multimedia Manager Configuration

- Smart Multimedia Manager
 - Device Management
 - Devices
 - Server
 - » (IPNext) Properties
- Check 'Force NAT Traversal' option

The screenshot shows the 'Server Properties' dialog box with the 'SSCP Connections' tab selected. Within this tab, the 'SIP' sub-tab is active. The configuration includes several timeout and count settings, a 'Response' section with dropdown menus for 'Response Type' and 'SDP Type', and a 'Transport Type' section with checkboxes for 'UDP' and 'TCP'. The 'Force NAT Traversal' checkbox is checked.

Property	Value	Range
Retry Count	5	(1-10)
Retry Timeout	500	(100-4000 msec)
Invite Expire Timeout	180	(5-600 sec)
Register Expire Timeout	0	(0-86400 sec)
Minimum Session Expire	1800	(30-86400 sec)

Response

Property	Value
Response Type	Default
SDP Type	Default

Transport Type

Property	Value
UDP	<input checked="" type="checkbox"/>
TCP	<input checked="" type="checkbox"/>

Force NAT Traversal



Thank you!

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