HyperCube DID Product Overview
DID Service Description

- Aggregated calls placed to HyperCube-owned or ported-in telephone numbers
- Delivers such traffic to customer via pre-defined SIP network interconnection
- Allows for use in 2-way applications
- Supports SMS Text
DID Voice Call Flow

Wireline

Wireless

HyperCube-provided Telephone Numbers

HyperCube

SIP Interconnection

Customer Network

2-way applications

WiMax

VoIP

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Why HyperCube DID?

• Facilities-based carrier
• Licensed CLEC in all HyperCube-native DID markets
• Direct interconnection with ILECs for DID traffic
• Licensed FCC 214 carrier
• Web portal interface for easy lookup and ordering
DID Service Features

- Coverage area of nearly 2,400 rate centers located in 39 LATAs and 19 states
- Web portal enables searching for available TNs and ordering service
- Both metered and non-metered pricing options for voice
- Traffic reporting and monitoring via HyperView
DID Technical Specifications

Network Interfaces Supported
- RFC 3261

Interconnection
- Public Internet or Dedicated IP
- Private, fully-redundant IP backbone
- Five diverse IP POPs
- Interconnected with Tier 1 carriers

CODECs Supported
- G.711A
- G.711μ
- G.729
- T.38

DTMF
- RFC 2833
- In-band
## DID Metered Pricing

<table>
<thead>
<tr>
<th>Per TN Charges</th>
<th>Explanation</th>
<th>Monthly Recurring</th>
<th>Non-Recurring</th>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Base charge</td>
<td>$0.10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Number porting, if a ported number</td>
<td></td>
<td>$3.25</td>
<td></td>
</tr>
<tr>
<td>Per Order Charges</td>
<td>MAC (Move, Add, Change)</td>
<td></td>
<td>$2.50</td>
<td></td>
</tr>
<tr>
<td>Usage Charges</td>
<td>Usage sensitive, charge per MOU (applicable to inbound traffic only)</td>
<td></td>
<td></td>
<td>$0.0027</td>
</tr>
</tbody>
</table>
# DID Non-Metered (Sessions) Pricing

<table>
<thead>
<tr>
<th>Per TN Charges</th>
<th>Explanation</th>
<th>Monthly Recurring</th>
<th>Non-Recurring</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Base charge</td>
<td>$0.10</td>
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<tr>
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<td>MAC (Move, Add, Change)</td>
<td></td>
<td>$2.50</td>
</tr>
<tr>
<td>Per Session Charges</td>
<td>Per Session</td>
<td></td>
<td>$5.50</td>
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</table>
HyperCube’s web portal conveniently allows users to:

- Search HyperCube’s DID inventory
  - Real-time results
  - 24/7 availability
- Place orders for telephone numbers
- Execute a DID agreement with HyperCube
HyperCube DID
SMS Text Add-On
SMS Text Service Description

• Allows the holder of a HyperCube-provided DID (telephone number) to send and receive SMS text messages

• HyperCube aggregates incoming SMS text messages for all customer assigned DIDs

• SMS text messages can be exchanged with any telephone number in the 1+ country code
SMS Text Service Description

• Person-to-Person (P2P) and Person-to-App (P2A) supported
  – Customer provided software for endpoint message handling

• SMS messages to/from short codes and long codes supported

• Customer handoff over SMPP (v3.4) or HTTP protocols

• Geographically-distributed and redundant server architecture

• Message storage during disruptions of SMPP/HTTP transport connections

• Short code hosting capability - TBD
SMS Text Network Architecture

- HyperCube SMS Aggregator
  - Dallas
- HyperCube SMS Aggregator
  - Chicago
- SMSC - Dallas
- SMSC - Chicago

VPN per site and TX/RX per server

SMPP 3.4/HTTP
# SMS Text Service Pricing

<table>
<thead>
<tr>
<th>Messages/Month</th>
<th>Rate/Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 10 million</td>
<td>$0.0052</td>
</tr>
<tr>
<td>10 to 50 million</td>
<td>$0.0042</td>
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<tr>
<td>50+ million</td>
<td>$0.0032</td>
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