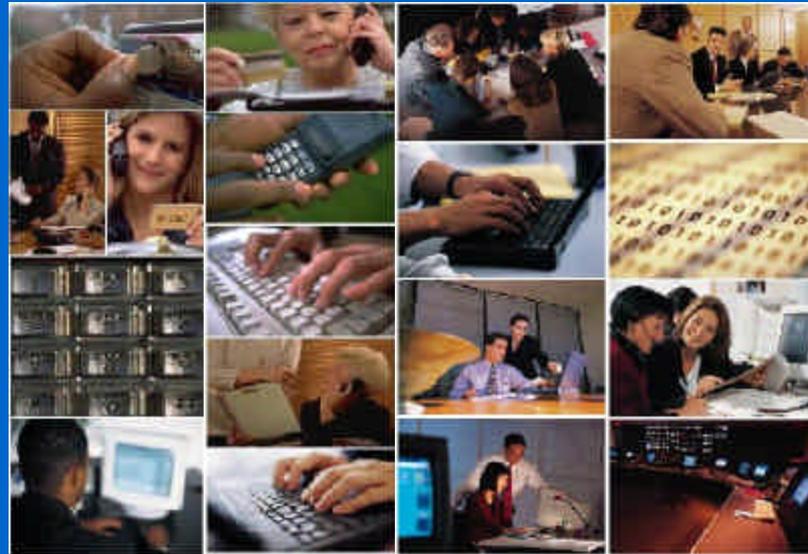




# D-HD

## High Density Billing Solution



**D-TAC**

Copyright 2004 Digital Telecom Access Control, Corp.

# D-HD

## Automation & Billing Software

### High Density Post Paid Billing

The D-TAC "HD" series billing system is a complete post-paid CDR billing platform that is designed to work with traditional switches, IP switches, gateways, proxy servers, soft switches and boarder session controllers. Providing a quality-billing platform for high-density VoIP and TDM based CDR networks.

### Invoicing & Back Office Automation

D-HD offers Telecom specific billing and business automation features to make operating your company easier. From customer support systems to the rate management tools, the D-HD system provides the tools needed to get the job done.

### Hardware & CDR Compatibility

Compatibility for Carrius Technologies, Cisco, NexTone, Quintum Technologies, and Versatel Networks and other standard CDR formats. Wholesale class capabilities for high capacity TDM and VoIP networks handling millions of transactions.

# D-HD Business Type Compatibility

**Features found in the HD series product line are compatible with many business models from different Telecom sectors**

- **Wholesale IP & TDM Traffic Billing**
- **Corporate Telecom Billing**
- **ITSP Consumer & Corporate Billing**
- **CLEC & IP LEC Billing**
- **Wi-Fi Consumer & Corporate Billing**
- **Satellite Wholesale, Consumer & Corporate Billing**
- **Multi-site Customer Billing & Onsite Inventory Tracking**

# D-HD Product Overview

- **Customer & vendor account management**
- **Billing plans, rate plans & invoice processing**
- **Rate management & margin validation**
- **Switch CDR & endpoint configuration**
- **Inbound & outbound call leg billing**
- **Profit margin & statistical reporting**
- **Traffic reporting for system, customer or vendor**
- **Invoice printing & PDF exporting**
- **Cash receipts management**
- **Sales commissions management**
- **Multi-vendor switch & gateway CDR import capabilities**
- **CDR export capabilities for customers or vendors**
- **Unlimited security groups & login levels**
- **Web based login for site controller, customer & vendor**

# Competitive Advantages

- **Easy to install and implement**
  - Quick start-up
  - Low overhead
  - Complete system control from Web browser
- **Lower cost package**
  - No per-port licensing
  - No hidden installation fees
- **Low site maintenance cost**
  - Utilizes Microsoft SQL built-in database management system for DBMS, maintenance, backups and clustering
  - Intel based server for scalability, easy upgrade & competitive purchase price

# Customer Accounts

Account Contact &  
Balance Information

Contact Balance Billing Credits Numbers Sites Reports

D-TAC Test  
[Account Enabled = True](#) [Allow Multiple Calls = True](#)

Primary Account Number- 8633857576  
Serialized Account Number - 19999

Save Account Changes

ADDRESS AND CONTACT INFORMATION

Account Name:

Primary Address:  Account Contact:

Second Address:  Account Phone:

City/State/Postal:    Country:

Web Password:

Contact Balance Billing Credits Numbers Sites Reports

D-TAC Test

Primary Account Number- 8633857576  
Serialized Account Number - 19999

Save Account Changes

BALANCE / EXPIRATION

Starting Balance \$10.00 Current Balance (\$35.00)

High Credit Limit  First Used Date 1/1/2001

Account Expire On  Reset Expiration:

# Customer Accounts

## Billing Setup & Credit/Charge Information

Contact Balance **Billing** Credits Numbers Sites Reports

D-TAC Test

Primary Account Number- 8633857576  
Serialized Account Number - 19999

Save Account Changes

**BILLING / GROUPING / COMISSIONS**

Billing Type: Debit/Prepaid  
Rate Plans: Corporate Rates  
Customer Terms: No Terms Assigned  
Billing Schedule: Weekly

Account Type: Debit Card  
Default Language: English  
Sales Agent: House Account  
Commission Plan: None  
Fund Group: None

Contact Balance Billing **Credits** Numbers Sites Reports

D-TAC Test

Primary Account Number- 8633857576  
Serialized Account Number - 19999

**CUSTOMER CREDITS / PAYMENTS**

Transaction Date	Amount	Pmt. Type
4/26/2004	\$12.50	Account Charge
3/16/2004	\$10.00	Account Credit
4/8/2004	\$16.00	Check
4/8/2004	\$16.00	Check
4/13/2004	\$16.00	Check

Contact Balance Billing **Credits** Numbers Sites Reports

Add Account Credit or Charge Exit Screen

Account Name: D-TAC Test  
Contact: MJ Fischer

Account Number: 8633857576  
Phone: 863-385-7576

Transaction Amount: 12.50  
Date Recorded: 4/26/2004

Payment Type: Account Credit  
Chk/Ref Number: Account Setup Chrg

Save New

# Customer Accounts

Multiple Account ANI, IP & Site Billing Information

Contact Balance Billing Credits Numbers Sites Reports

**Add Multiple** Select From DID List

ANI / IP Device / Phone

New ANI, IP or Phone:

Name / Description:

Set for Call Shop Device:

Assign Customer Site:

ANI, IP or Phone	Description	Number Enabled
<a href="#">2633857571</a>	MJP #2	<a href="#">True</a>
<a href="#">2633857578</a>	Office #2 ANI	<a href="#">True</a>
<a href="#">2633857579</a>	Jane	<a href="#">True</a>
<a href="#">2633857576</a>	Alternate Number	<a href="#">True</a>
<a href="#">210.34.36.112</a>	Gateway 1 IP	<a href="#">True</a>

Contact Balance Billing Credits Numbers Sites Reports

**Edit Customer Sites** Main Site = False Exit Screen

Site 10 1 - D-TAC Test

Site Name:

Site Address:  Site Contact:

Second Address:  Site Phone:

City/State/Postal:    Technical Contact:

Site Billing Plan:  Technical Phone:

Monthly Recurring Site Discount \$  (Note: This Dollar amount will be deducted from the MRC plan amount)

Non Recurring Site Discount \$  (Note: This Dollar amount will be deducted from the NRC plan amount)

Apply NRC charges:

Contact Balance Billing Credits Numbers Sites

**D-TAC Test Sites**

Site Name:

Site Address:

Second Address:

City/State/Postal:

Technical Contact:

Technical Phone:

Site Name	Contact	Phone	Remove Site
<a href="#">Edit D-TAC - Los Angeles</a>	John	555-444-6666	<a href="#">Remove Site</a>
<a href="#">Edit D-TAC New York</a>	Jane	555-262-2626	<a href="#">Remove Site</a>

# Reports

## Invoice & Account Balance Listing



### Account Balances 3/18/2004

AccntNumber	AccntName	Balance	Credit
1001	Digital Telecom	\$60.00	\$0.00
1002	Voxsant	\$990.00	\$1,000.00
1005ABP	ABP	\$90.00	\$100.00
7@69.34.37.79	Test	\$9.79	\$30.00
99999999	Luis & Jaime Test	\$1,990.88	\$1,000.00
bill@69.34.37.79	Bill Rodriguez	\$39.69	\$50.00
		\$39.75	\$0.00



**Remit Payment To:**  
 ACME Telecom, Corp.  
 2727 West 51st Street  
 Los Angeles, CA 90210

**Bill To:**  
 DBCC Customer  
 1214 Runway Drive  
 Building 12-C  
 Brunsville, TX 21506

**Invoice Number:** 10136  
**Period From:** 03-March-2004  
**Period To:** 09-March-2004  
**Ending Balance:** \$638.72  
**Total Count:** 713  
**Total Minutes:** 9,775.20  
**Billing Charges:** \$638.72  
**Amount Due:** \$638.72

**Payment Due Date:** March 16, 2004

**Amount Enclosed:**

*Please make payment to: ACME Telecom, Corp...Return the above form with your payment. Thank you for your business.*

ACME Telecom, Corp.  
 2727 West 51st Street  
 Los Angeles, CA 90210

**Invoice Number:** 10136  
**Period From:** 03-March-2004  
**Period To:** 09-March-2004  
**Ending Balance:** \$638.72

### Telephone Statement Details

**Total Number of Calls for this Statement:** 713  
**Total Number of Minutes for this Statement:** 9,775.20  
**Billing Charges this Statement:** \$638.72

### Call Details

Count	Breakout Name	Country/Area	NPA	NXX	Total Minutes	Total Amount
11	Los Angeles, CA	1	714		61.50	\$1.17
357	New York, NY	1	212		1,950.90	\$310.19
212	Brazil - Proper	55			1,445.70	\$106.26
133	Brazil - Sao Paulo	55	11		6,317.10	\$221.10
					<b>9,775.20</b>	<b>\$638.72</b>

# Reports

## Customer & Carrier Traffic Analysis



March 19, 2004 11:36 am

Account: All

Start Date: 01/01/2004

End Date: 03/31/2004

### Customer Traffic Analysis

Country	NPA	NXX	Call Rate	Call Count	Total Time	Total Amount
<b>Laos</b>						
Country: 856	NPA:	NXX:				
			\$0.0100	4	2.0	\$0.02
				<b>4</b>	<b>2.0</b>	<b>\$0.02</b>
<b>Philippines - Cellular</b>						
Country: 63	NPA: 9	NXX:				
			\$0.1590	212	1,950.9	\$310.19
				<b>212</b>	<b>1,950.9</b>	<b>\$310.19</b>
<b>Thailand</b>						
Country: 66	NPA:	NXX:				
			\$0.0725	1	0.6	\$0.04
			\$0.0735	133	1,445.7	\$106.26
				<b>134</b>	<b>1,446.3</b>	<b>\$106.31</b>
<b>Thailand - Bangkok</b>						
Country: 66	NPA: 2	NXX:				
			\$0.0300	71,075	821,459.1	\$24,643.77
			\$0.0350	691	10,638.6	\$372.35
			\$0.0325	70	852.5	\$27.71
			\$0.0349	912	5,451.6	\$190.26
				<b>72,748</b>	<b>838,401.8</b>	<b>\$25,234.09</b>



### Thursday, March 18, 2004

Country	NPA	NXX	Call Rate	Call Count	Total Time	Total Amount
Country: 66	NPA: 3	NXX:				
			\$0.0800	205	3,109.9	\$248.79
Country: 66	NPA: 4	NXX:				
			\$0.0800	235	3,051.0	\$244.08
Country: 66	NPA: 5	NXX:				
			\$0.0800	143	1,628.4	\$130.27
Country: 66	NPA: 7	NXX:				
			\$0.0800	47	661.1	\$52.89
				<b>630</b>	<b>8,450.4</b>	<b>\$676.03</b>
<b>Thailand - Bangkok</b>						
Country: 66	NPA: 2	NXX:				
			\$0.0300	71,075	821,459.1	\$24,643.77
				<b>71,075</b>	<b>821,459.1</b>	<b>\$24,643.77</b>

# Reports

Route Duration by  
“user-definable”  
Time Increments



Friday, March 26, 2004

Endpoint: TTG Miami  
Increment: 30 Minute  
Start Date: 11/30/2003  
End Date: 11/30/2003

## Route Duration

11/30/2003		Count	Actual Duration(s)	Rounded Duration(s)
0:00.21	>>>>	174	161,545	162,408
0:30.22	>>>>	140	121,643	122,178
1:00.22	>>>>	149	121,648	122,292
1:30.22	>>>>	153	109,213	109,968
2:00.22	>>>>	113	139,942	140,484
2:30.22	>>>>	86	52,030	52,320
3:00.22	>>>>	102	32,524	33,012
3:30.22	>>>>	113	78,117	78,510
4:00.22	>>>>	93	71,455	71,742
4:30.22	>>>>	109	96,725	97,170
5:00.22	>>>>	109	100,652	101,034
5:30.22	>>>>	120	103,580	104,100
6:00.22	>>>>	141	142,585	143,100
6:30.22	>>>>	126	123,662	124,104
7:00.22	>>>>	104	112,312	112,692
7:30.22	>>>>	118	149,274	149,640
8:00.22	>>>>	104	143,277	143,664
8:30.22	>>>>	126	146,427	146,916
9:00.22	>>>>	126	124,431	124,896
9:30.22	>>>>	96	118,858	119,196
10:00.22	>>>>	103	118,581	119,016
10:30.22	>>>>	76	65,752	66,060
11:00.22	>>>>	60	84,285	84,534
11:30.22	>>>>	43	50,606	50,790
12:00.22	>>>>	27	33,944	34,056
12:30.22	>>>>	32	35,144	35,244
13:00.22	>>>>	37	28,861	28,986
13:30.22	>>>>	37	25,633	25,776
14:00.22	>>>>	45	44,179	44,298
14:30.22	>>>>	50	32,796	32,982
15:00.22	>>>>	85	33,999	34,248
15:30.22	>>>>	140	79,055	79,512

# Switches

Switch Location, Contact  
& Serialized Identification

Location & Contact   Device Identification   Device Billing Setup   Voice Prompts

**Switch & Device Properties**   Active Status = True   Save Device Changes

**SWITCH LOCATION INFORMATION**

Device Name:	<input type="text" value="Carrius VoIP to VoIP"/>	Device Type:	<input type="text" value="Carrius Switch"/>
Device Contact:	<input type="text" value="Sam Tocco"/>	Contact Phone:	<input type="text" value="863-385-7576 Ext-3"/>
Address/Location:	<input type="text" value="NAP of Americas"/>	IP Address:	<input type="text" value="69.34.37.78"/>
City/State/Country:	<input type="text" value="Miami"/> <input type="text" value="FL"/> <input type="text" value="33870 USA"/>		
Floor/Cage/Suite:	<input type="text" value="2nd Floor, Cage 75"/>	Cabinet/Shelf:	<input type="text" value="Rack #4 - Shelf #5"/>

Location & Contact   Device Identification   Device Billing Setup   Voice Prompts

**Switch & Device Properties**   Active Status = True   Save Device Changes

**SWITCH & LOCATION INFORMATION**

Device Name: **Carrius VoIP to VoIP**   Location: **Miami**

**DEVICE SPECIFIC INFORMATION**

Manufacturer:	<input type="text" value="Carrius Technologies"/>	Model Number:	<input type="text" value="iCSP System B"/>
Device Ports:	<input type="text" value="10000"/>	SerialNumber:	<input type="text" value="A203-55ZFT21"/>
Description:	<input type="text" value="32 - T1 circuits -  1000 VoIP - SIP ports -  786 VoIP h323 ports"/>		
Dialing Digits Min:	<input type="text" value="5"/>	Dialing Digits Max:	<input type="text" value="20"/>

# Switches

## Switch Inbound VoIP & PSTN Call Dial String setup

Location & Contact | Device Identification | **Device Billing Setup** | Voice Prompts

**Switch & Device Properties** Active Status = True Save Billing Changes

**SWITCH LOCATION INFORMATION**

Device Name: **Carrius VoIP to VoIP** Location: **Miami**

**INBOUND VOIP BILLING PARAMETERS**

VoIP Billing Type: ANI (Remove Prefix) VoIP Tech Prefix Length: 6  
Domestic LD Prefix: 1 VoIP Country Code: 1  
International LD Prefix: 011

**INBOUND PSTN BILLING PARAMETERS**

PSTN Billing Type: Trunk ID as Account PSTN Prefix Length:   
Domestic LD Prefix: 1 PSTN Country Code: 1  
International LD Prefix: 011

Location & Contact | Device Identification | Device Billing Setup | **Voice Prompts**

**Switch & Device Properties** Active Status = True Save Prompt Changes

**SWITCH & LOCATION INFORMATION**

Device Name: **Carrius VoIP to VoIP** Location: **Miami**

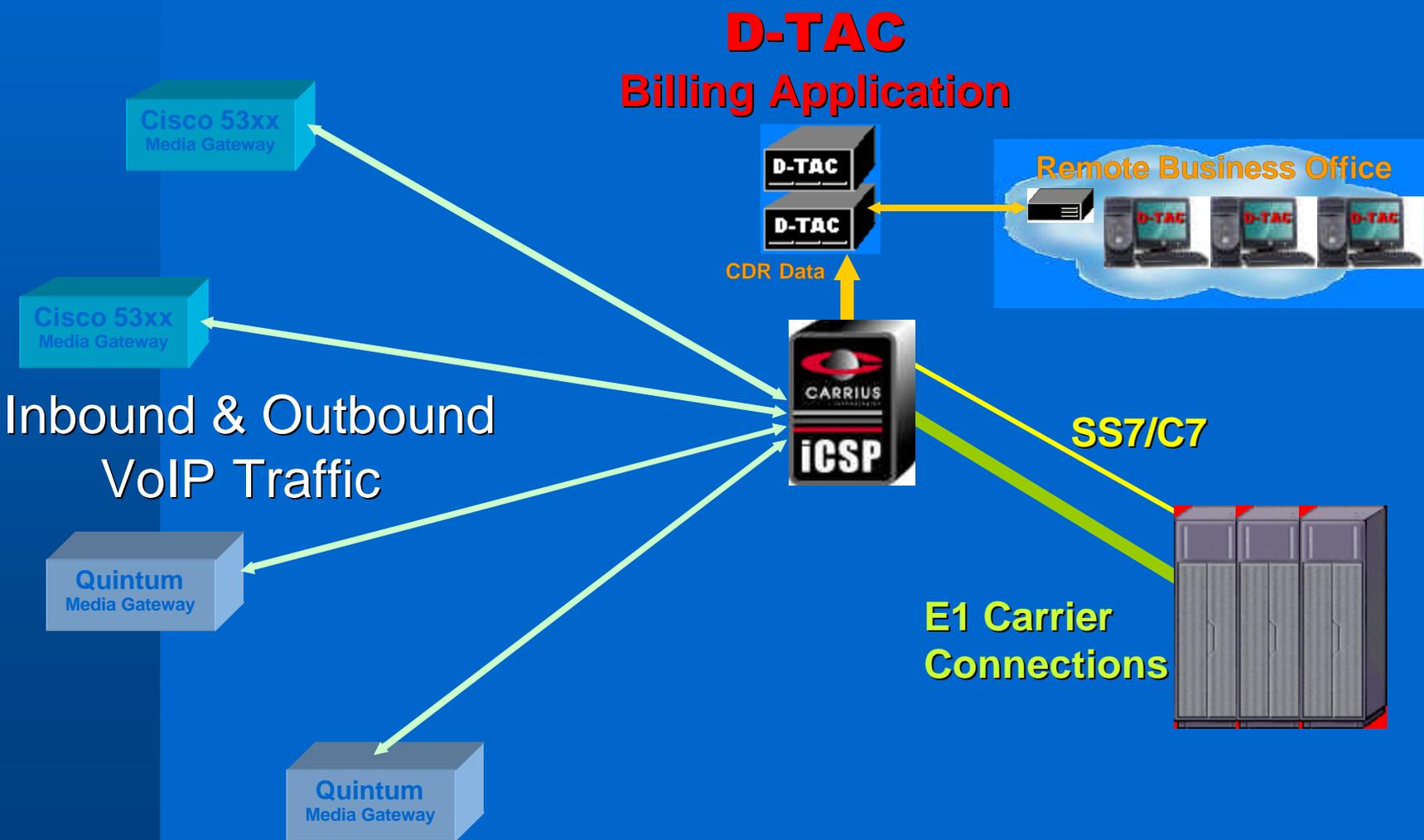
**IVR PARAMETERS**

Play Intro Message	<input checked="" type="checkbox"/>	Play Main Greeting	<input checked="" type="checkbox"/>
Play Account Balance	<input checked="" type="checkbox"/>	Prompt for Destination	<input checked="" type="checkbox"/>
Allow ## Redial	<input checked="" type="checkbox"/>	Use 2nd Dial Tone	<input type="checkbox"/>
Warn 30 Sec Balance	<input type="checkbox"/>	Warn 60 Sec Balance	<input checked="" type="checkbox"/>

IVR Prompt  
Configuration

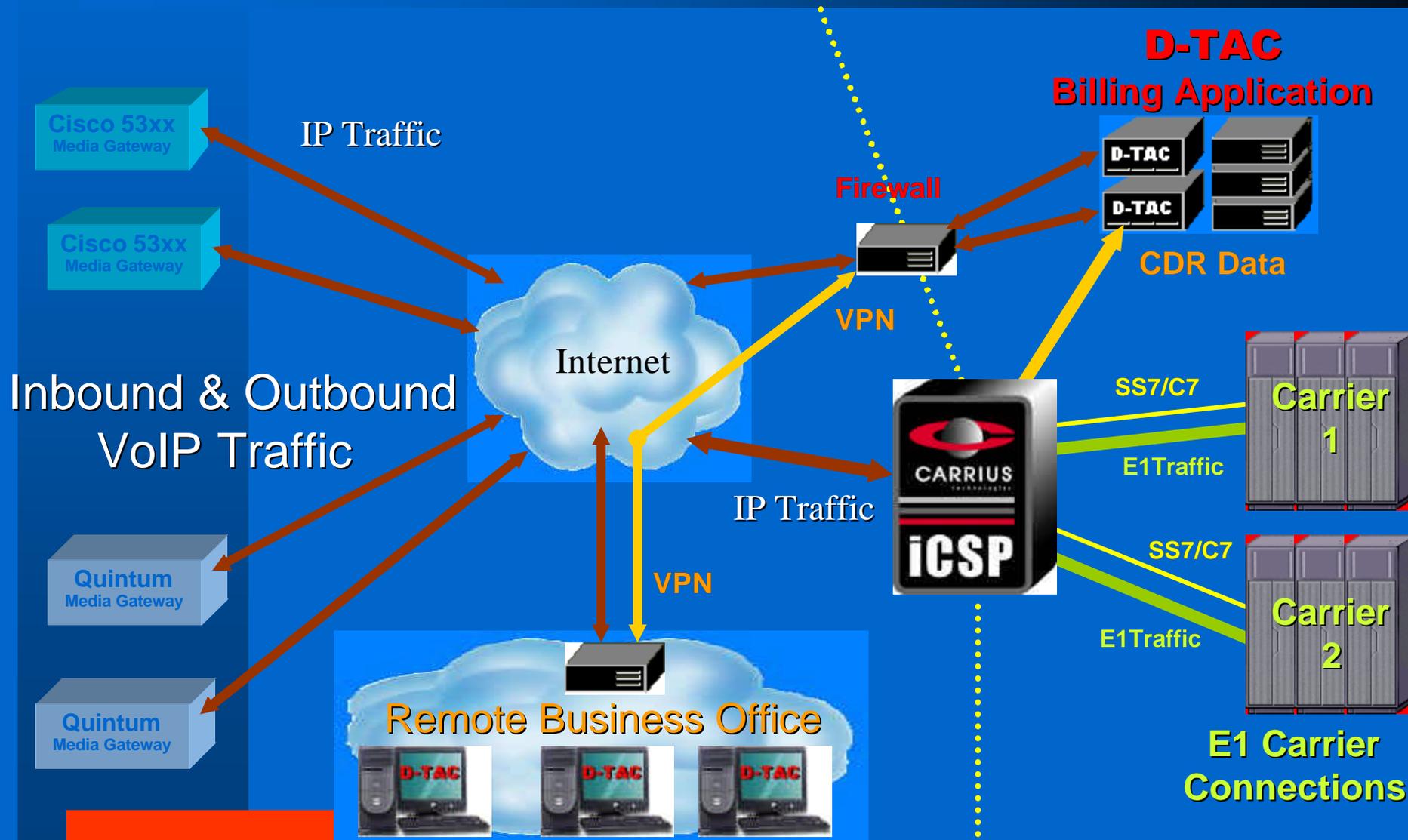
# Sample SS7

## IP – TDM SS7/C7 Wholesale Application



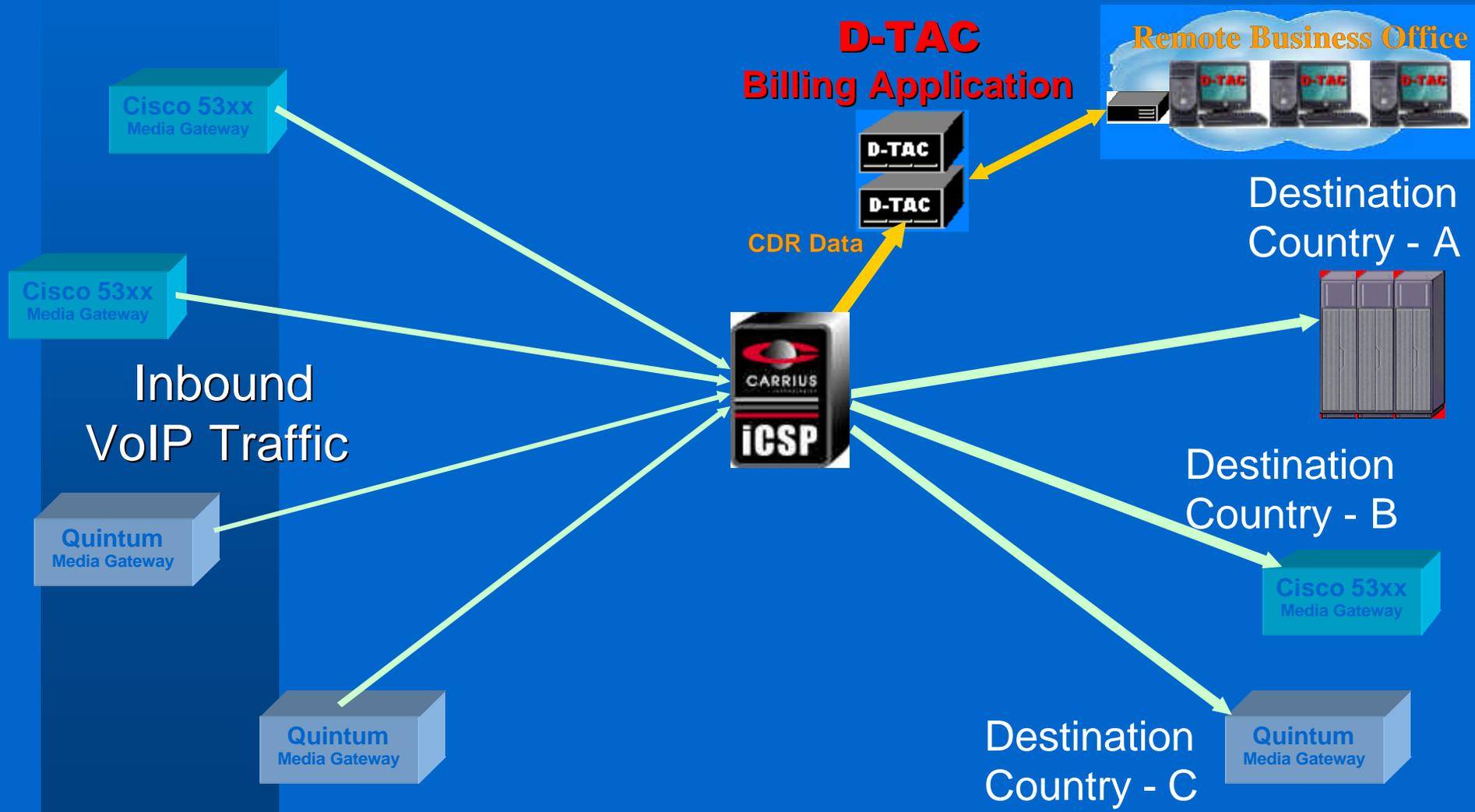
# Sample SS7 Detailed Breakout

## IP – TDM SS7/C7 Wholesale Application



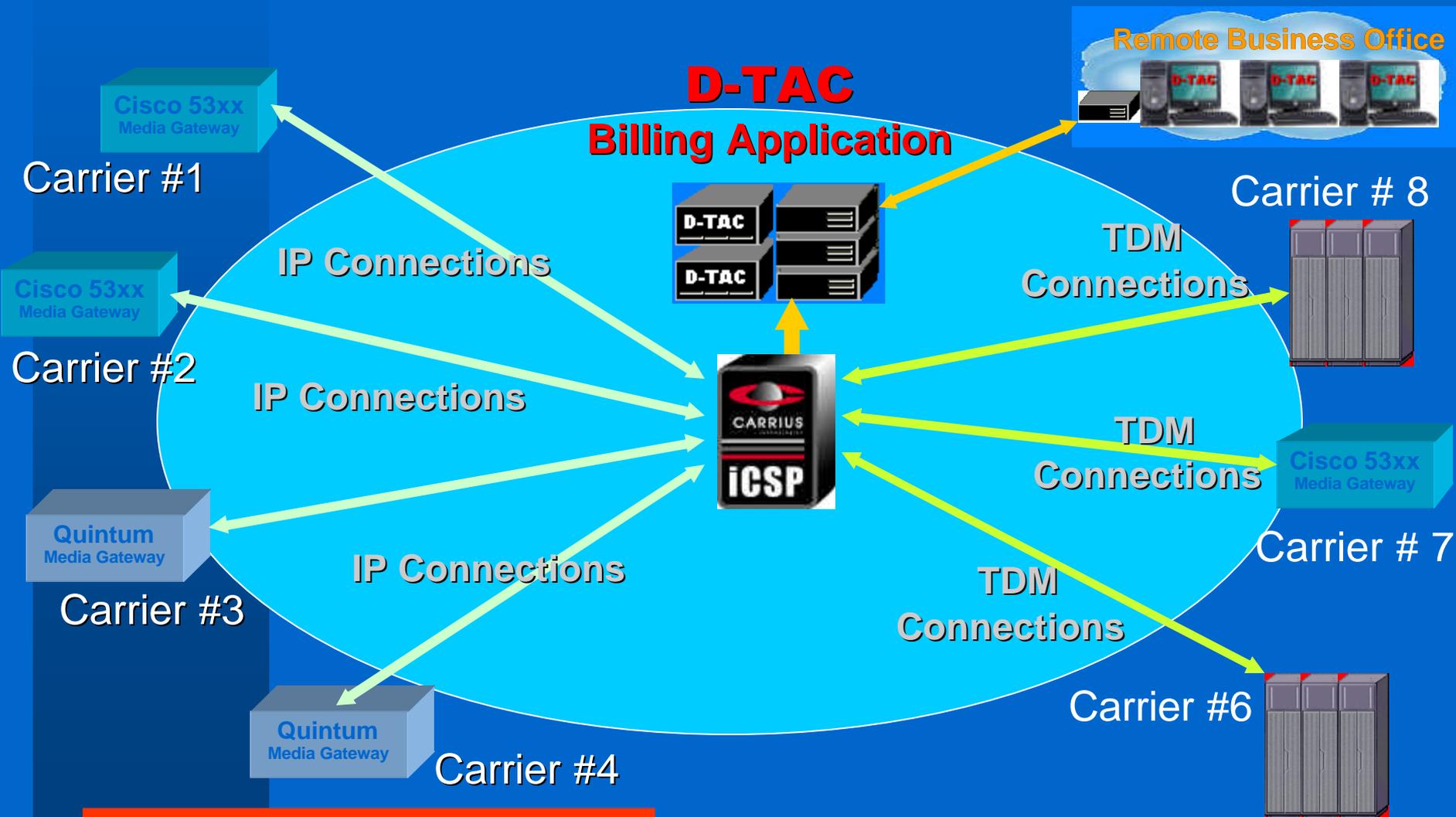
# Sample IP to IP

## IP – IP Wholesale Application



# Sample Arbitrage

## IP & TDM Based Arbitrage Application



# Delivery Schedule

## ● 2004 Software Release Schedule

### Existing Applications

“D-VCS” Prepaid RADIUS gateway based solutions, shipping since 2002

“D-VCS” Postpaid RADIUS gateway based solutions, shipping since 2002

D-TAC - External Routing Controller for Quintum gateways, shipping since 2003

New - Switch Based Wholesale

“D-HD” Post-Paid Application

New - Switch Based Prepaid

“D-HD” Prepaid Application

Switch Based Routing Controller

“D-HR” Switch Routing

Jan Feb Mar Apr May Jun July Sep Oct Nov Dec



**FOR CURRENT INFO...**

Contact your D-TAC representative directly

1-863-385-7576

Sales@D-TAC.com

# D-TAC

## Providing Billing Solutions... and More

Our technology and customer partnership commitments include ongoing research & product development to help keep you current with technology and to help provide new products and infrastructure for the ever changing needs of your customers.

