



Rebooting and Reducing Your Telecom Services

October 20, 2016

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- Wealth Advisory
- Outsourcing
- Audit, Tax, and Consulting
- More than 4,500 employees
- Offices coast to coast
- More than 600 state and local government professionals serve more than 1,800 local, county, and state government agencies.

Investment advisory services are offered through CliftonLarsonAllen Wealth Advisors, LLC.





Speaker Introductions



• Shannon Cleveland
Senior Telecom Analyst



Courtney Cress
 Technical Director





Learning Objectives

- At the end of this session, you will be able to:
 - Review invoice line items and identify options for service and billing optimization
 - Identify and describe shared solutions
 - Recognize additional methods for lowering telecom expenses
 - Determine who qualifies for the E-Rate program and what services and products are eligible for E-Rate funding



Do Your Telecom Services Need a Reboot?

Average Telephone Bill





Introduction

What is Telecom Advisory Services?

We analyze Telecom Expenses:

Local and Long
Distance

Wireless

Internet

Data Networks

Fleet Management - IoT Conferencing / WebEx





Our Focus

Billing *errors* and *discrepancies*

Optimization of existing rates, plans, and services

Availability of more *efficient* services



Our Services







<u>Agenda</u>



- Current Environment
- Opportunities
- Common Billing Errors
- WirelessTrends in Telecom
- E-rate

Current Environment

The longer the billing is and more line items it contains; the more likely it is that expenses and errors go unnoticed.







Casual rates (no contract)

Incorrect local market

Usage costs: billing parameters

Taxes, surcharges, and fees

81 percent of all Telecom Invoices have discrepancies

Average savings of **10-20 percent** plus refunds!



Taxes / Surcharges and Fees



Which exemptions do you qualify for?

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_				١

Communications Service Tax 26.15 Federal Excise Tax 5.88 Statutory Gross Receipts 4.79 Statutory Gross Receipts (Business) 0.30

> \$37.12 Total Taxes

Detail of Fees and Surcharges

Access Recovery Charge	9.00
Federal Subscriber Line Charge Fee	27.60
Federal Universal Service Fund Fee	8.94
Interstate Service Fee	4.97
Local Number Portability Fee	1.05
Network Cost Recovery Fee	12.93
Regulatory Assessment Surcharge	0.97
State 911 Recovery Surcharge	1.50
State Telecommunications Relay Service Fund Surcha	0.33

Total Fees and Surcharges

\$67.29





Contracts



- **Early Termination Fees**
- **Automatic Renewals**
- Penalties

Plan Start	Unit Threshold	Attaintment to Date	Monthly
Date	(Annual)		Average
5/16/2015	\$180,000.00	\$5,098.97	\$2,549.48

Potentia Penalty \$149,412



Duplicate Billing (Colton, CA)

(Largest Bakery Supplies Manufacturer)

DILLING ADDICTMENTS

Profile

- \$1,395,000 Annual Telecom Expense
- 100 countries with 34 manufacturing facilities, 26 distribution centers, 4 innovation centers

Results

- 36 Month Savings \$1,673,600

Account	Summary
---------	---------

Previous Charges	\$ 749.76
No Payment Received	.00
Adjustments	- 32,478.11
Balance Forward	- \$ 31,728.35
New Charges	
Verizon(page 3)	\$ 608.72
Other Providers (page 5)	66.72

•	\$53	600	Refu	nde

В	ILLING AD,	JUSTMENTS		
1	Apr 27	15 Ln Hunt CR 10/28/11 - 12/9/14		CR 929.90
	Tracking #	2015042200144		
2	Apr 27	15 PBX Trks CR 10/28/11 - 12/9/14		CR 20,605.09
	Tracking #	2015042200144		
3	Apr 27	3 ARC CR 7/3/12 - 4/17/15		CR 161.21
	Tracking #	2015042200144		
4	Apr 27	3 SLC CR 10/28/11 - 4/17/15		CR 1,146.98
	Tracking #	2015042200144		
5	Apr 27	8 Bus Lns CR 10/28/11 - 12/9/14 2015042200144		CR 9,634.93
	Tracking #	2015042200144		
A	djustment(s)	applied to previous charges.	Total	CR \$ 32,478.11







Casual Rates (Central Florida)

(University w/ 12 locations and distance learning)

Before

After

ĬV.	MONTHLY SERVICE - BASIC (Jul 28 to Aug 27)					
	Description	Qty	Unit Rate			
2	ISDN PRI access	6	350.00	2,100.00		
3	Federal Access Recovery Charge	6	10.40	62.40		
4	DID first block of 100 numbers	3	440.00	1,320.00		
5	DID addi block of 20 numbers	1	100.00	, 100.00		
6	ISDN B channel	138	15.00	2,070.00		
7	ISDN T1 facility	. 6	250.00	1,500.00		
8	Federal Subscriber Line Charge	6	42.90	257.40		
9	ISDN interstate access port	6	10.00	60.00		
	Total			\$ 7,469.80		

MONTHLY SERVICE - BASIC (May 28 to Jun 27)					
Description	Qty	Unit Rate			
CKT# 1M.PCXX.813.226.4800					
3 DID block of 100 num - 1 Yr Term	3	40.00	120.00		
4 DID block of 20 numbers - 1 Yr Term	1	20.00	20.00		
5 Federal Access Recovery Charge	6	10.40	62.40		
6 ISDN access - 3 yr	6	623.04	3,738.24		
7 Federal Subscriber Line Charge	6	43.00	258.00		
8 ISDN interstate access port	6	10.00	60.00		
Total			\$ 4,258.64		

Refund

BILLING ADJUSTMENTS				
1 May 5 Local service billing adjustment	CR 27,595.13			
2 May 5 Late payment charge adjustment	CR 376.26			
Adjustment(s) applied to previous charges.	Total CR \$ 27,971.39			





Incorrect Local Market (Washington, DC) (One of the nations largest law firms)



BEFORE (March 2013)

ACCOUNT ACTIVITY

DATE OF INVOICE INVOICE PERIOD

04.08.13 03.08.13 - 04.07.13 INVOICE NUMBER ACCOUNT NUMBER PAGE



ACTIVITY FOR ACCOUNT - USAGE CHARGES	WASH DC		
Description	Calls	Minutes	Amount
International Long Distance Charges	52	651.2	\$88.3300
Local Directory Assistance Charges	7	0.0	\$13.9300 ⁺
Local Measured Service Charges	15,828	63,631.0	\$954.4650 ⁺
Out of State Long Distance Charges	216	827.7	\$0.0000
Regional Long Distance Charges	171	585.8	\$0.0000

TOTAL USAGE



AFTER (March 2014)

ACCOUNT ACTIVITY

DATE OF INVOICE INVOICE PERIOD

04.08.14 03.08.14 - 04.07.14

INVOICE NUMBER ACCOUNT NUMBER PAGE



ACTIVITY FOR ACCOUNT	WASH DC - (PIN: 5371)		
USAGE CHARGES			
Description	Calls	Minutes	Amount
Canadian Long Distance Charge (D)	14	78.0	\$2.0000
Caribbean Long Distance Charges	4	7.6	\$1.2100
International Long Distance Charges (D)	63	835.4	\$86.9700
Local Directory Assistance Charges	3	0.0	\$5.9700 ⁺
Local Measured Service Charges	14,129	61,728.0	\$0.0000 ⁺
Out of State Long Distance Charges (D)	2,946	20,792.2	\$0.0000
Regional Long Distance Charges (D)	165	762.4	\$0.0000
TOTAL USAGE CHARGES	17,324	84,203.6	\$96.1500





Usage Parameters (Philadelphia) (Marketing company w/ small call center)

Before				After				Clif	
TIME	# CALLED	LOCATION	MINUTES	AMOUNT	TIME	# CALLED	LOCATION	MINUTES	AMOUNT
01:33 PM	870 413-0096	PINE BLUFF,AR	0.1	0.0100	09:58 AM	480 451-5989	SCOTTSDALE,AZ	0.1	0.0013
01:34 PM	401 421-8389	PROVIDENCE,RI	0.6	0.0100	09:58 AM	786 217-3857	HOMESTEAD ,FL	0.2	0.0026
01:34 PM	210 387-3481	SANANTONIO,TX	0.1	0.0100	09:58 AM	786 718-9164	MIAMI ,FL	0.1	0.0013
01:34 PM	219 801-1017	E CHICAGO, IN	0.2	0.0100	09:58 AM	207 865-4417	FREEPORT ,ME	0.1	0.0013
01:35 PM	203 345-6321	BRIDGEPORT,CT	0.1	0.0100	09:58 AM	910 876-1035	ELIZABTHTN,NC	0.1	0.0013
01:35 PM	401 965-9841	PROVIDENCE,RI	0.1	0.0100	09:58 AM	508 251-0573	MARLBORO ,MA	0.1	0.0013
01:35 PM	818 951-7675	SUNLD TJNG,CA	0.1	0.0100	09:58 AM	716 897-0740	BUFFALO ,NY	0.1	0.0013
01:35 PM	707 863-0697	FRFLD-SUIS,CA	0.1	0.0100	09:58 AM	740 981-7625	PORTSMOUTH,OH	H 0.1	0.0013
01:36 PM	504 462-0057	KENNER ,LA	0.1	0.0100	09:58 AM	513 459-9496	MASON ,OH	0.1	0.0013
TOTAL USAGE CHARGES 409,9		409,943.8	\$10,63	6.6539	TOTAL US	SAGE CHARGES	402,451.4	\$5,357	.2645



PAYMENTS, CREDITS & OTHER CHARGES (CONT'D)				
Date	Description	Amount		
01/21/2011	Regional Long Distance Credit	(\$105.6900)		
01/21/2011	In State Long Distance Credit	(\$272.8700)		
01/21/2011	Out of State Long Distance Credit	(\$13,315.5500)		
01/21/2011	Regional 8XX Credit	(\$147.2400)		
01/21/2011	In State 8XX Credit	(\$16.9500)		
01/21/2011	Out of State 8XX Credit	(\$1,383.0700)		
01/21/2011	International 8XX Adjustment	\$32.8700		
TOTAL PAYMENT	(\$32,613.1000)			





Taxes, Surcharges, and Fees (Central Florida)

(Nations largest home health provider)

Before

> MONTHLY INVOICE SUMMARY March 27 - April 26, 2013 Previous Balance 247,673.07 Payments as of 04/27/13 - Thank you -246,202.04 \$1,471.03 Outstanding Balance - Due Upon Receipt 3 0001-Access and Related Items 108,748.69 0002-Cellular Services 1,126.33 0004-Messaging Services 33.30 0005-Data and Third Party Services 153.94 0006-Equipment and Retail Purchases 349.99 0007-Sprint Surcharges + 1,570.77 0008-Government Fees and Taxes + 8,499.83 *Total Current Charges for Due 05/20/13 \$120,482.85 Total Amount Due \$121,953.88 After

> MONTHLY INVOICE SUMMARY					
August 27 - September 26, 2014					
Previous Balance	118,725.31				
Adjustments to previous balance	-2,143.03				
Outstanding Balance - Due Upon Receipt	\$116,582.28				
31 0001-Access and Related Items	9,815.80				
0005-Data and Third Party Services	18.00				
	39.89				
0008-Government Fees and Taxes +	22.00				
*Total Current Charges for Due 10/20/14	\$9,895.69				
Total Amount Due	\$126,477.97				





Wireless



VS.







Wireless

Average Cost Per User with Verizon Wireless:



State of Florida Contract

• \$35.64

WSCA

• \$48.78

Enterprise

• \$51.25



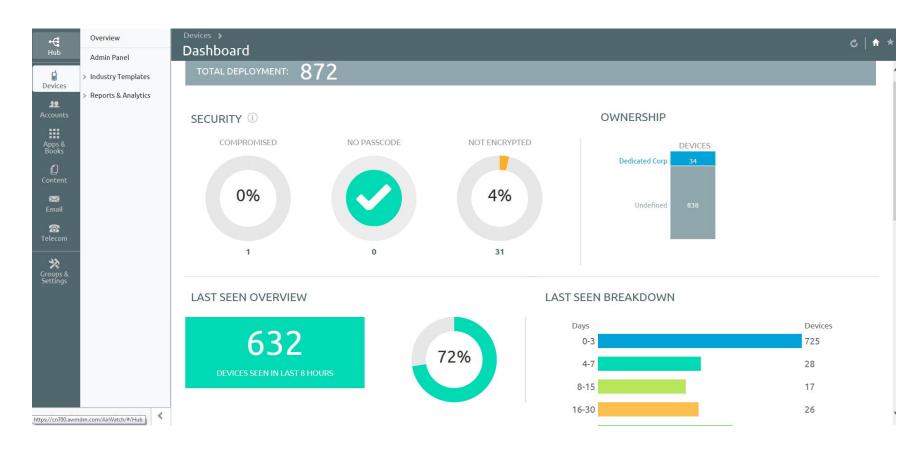


Enterprise Owned	BYOD	C.O.P.E.	STIPEND
Full Control. You own the line, the device, the use.	You own the line, Employee owns the device. Your IT folks get to support multiple platforms. Yay.	You own the phone, your employee activates the line.	You own nothing.
MDM Appropriate	MDM appropriate (with Containerization)	With Containerization	With containerization.
\$29-\$54 per user	\$25-\$54 per user		\$50-\$85 per user

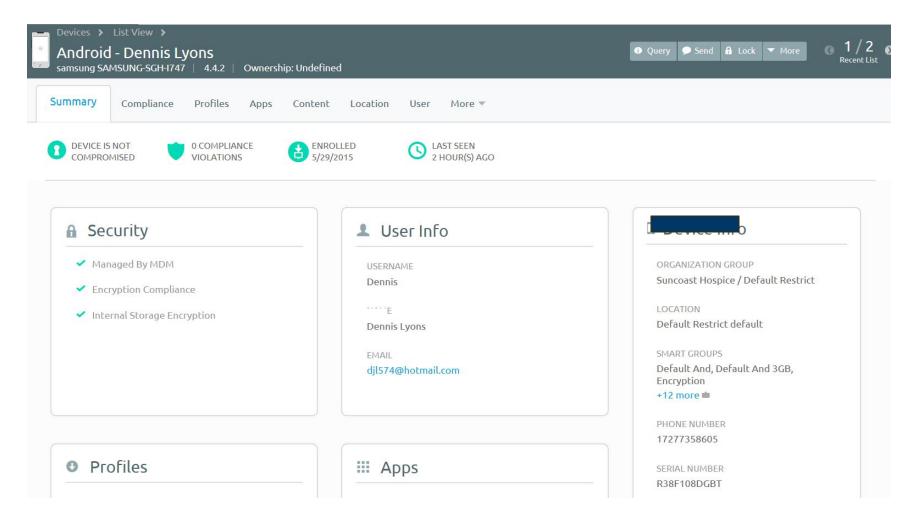


Umbrella compliance through MDM:

protecting many users in multiple groups.



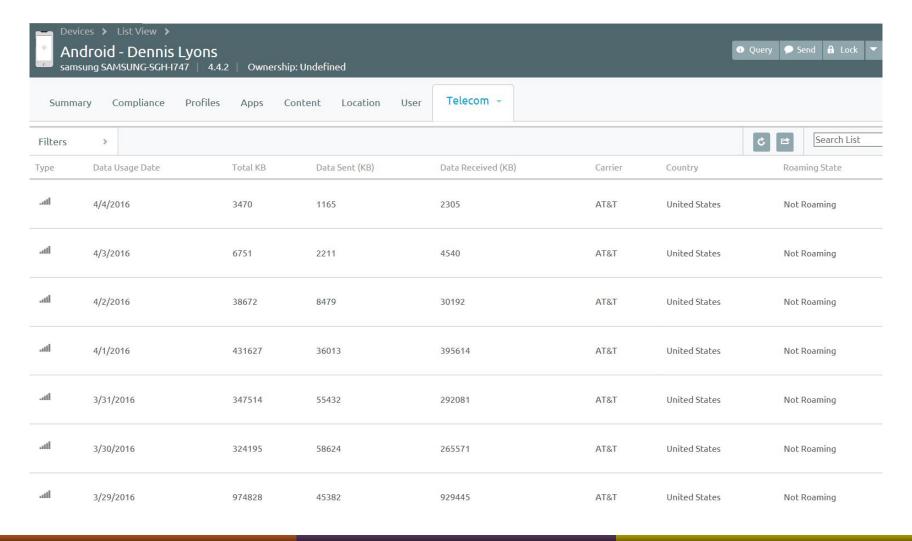






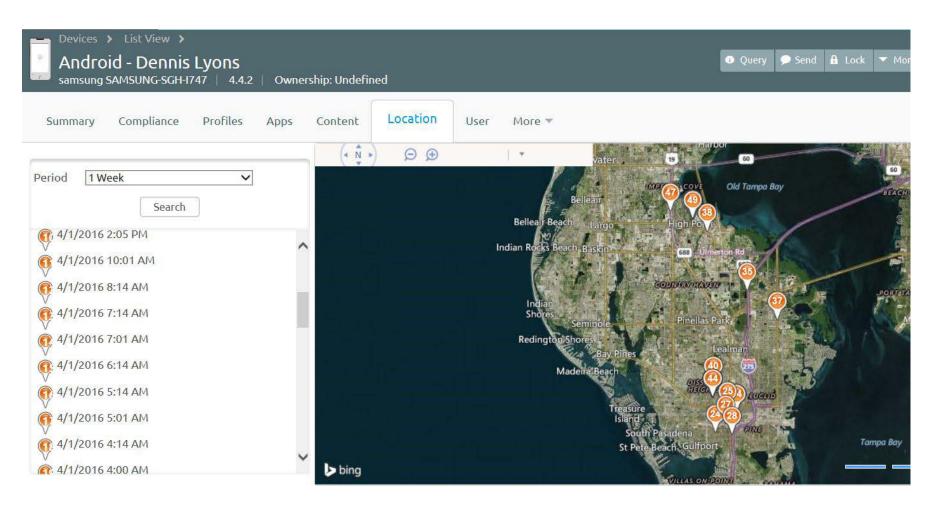


Granular level detail, control, security.



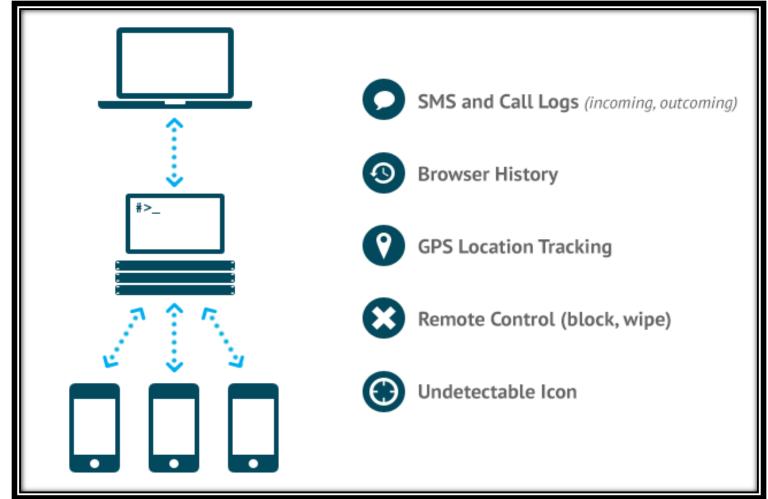


Mobile Device Management





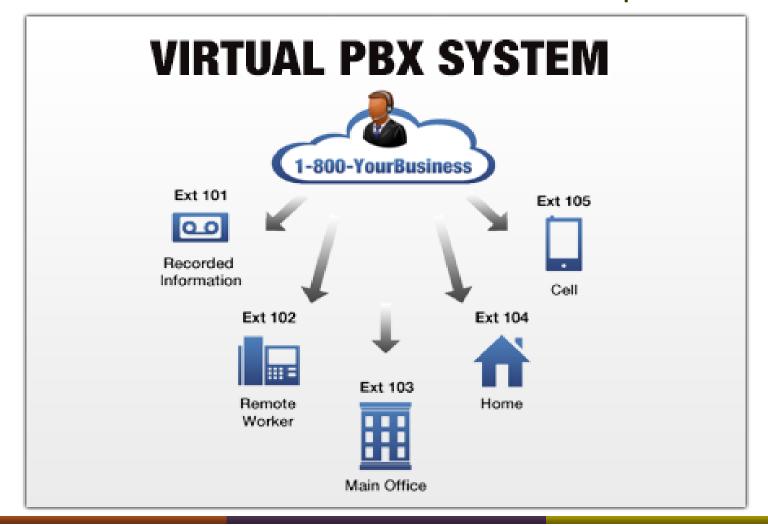
Mobile Device Management turns questions into answers.





Hosted Solutions

Hosted = in the cloud vs. traditional on premise



Internet of Things (IoT)











E-rate Program- Schools and Libraries

The E-rate program is designed for eligible participants to request funding in five categories of service: Telecommunications, Telecommunications Services, Internet Access, Internal Connections, and Basic Maintenance of Internal Connections. The E-rate discounts are based on the following criteria:

INCOME	URBAN LOCATION	RURAL LOCATION
Measured by percentage of students eligible for the National School Lunch Program	Discount	Discount
If the % of students in your school that qualifies for the	and you are in an URBAN	and you are in a RURAL area,
National School Lunch Program is	area, your discount will be	your discount will be
Less than 1%	20%	25%
1% to 19%	40%	50%
20% to 34%	50%	60%
35% to 49%	60%	70%
50% to 74%	80%	80%
75% to 100%	90%	90%





Current E-Rate Funding

The E-rate program currently provides funding for the following services:

Category 1



Services needed to support broadband connectivity to schools and libraries



Services include: data transmission services, Internet access, and voice services



Examples:

• Fiber, Frame Relay, DS-1, DS-3, Fractional T-1 or T-3, Ethernet, ISDN, VoIP, POTS, and Cellular Voice.

Category 2

Includes the internal connections needed for broadband connectivity within schools and libraries



Services include: broadband internal connections, managed internal broadband services, and basic maintenance of eligible broadband internal connections



Examples:

 Local Area Network (LAN), Wide Area Network (WAN), Switches, Routers, Racks, Supporting Software, Wire and Cable Maintenance, and Basic Technical Support.



E-Rate Modernization

E-rate is implementing a new E-rate Modernization Order to phase out Voice Services and focus on high-speed broadband needed for digital learning. The E-rate Modernization Order phases out support for voice services and circuit capacity dedicated to providing voice services.

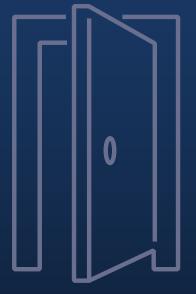
Discount % for Other Category One Services	Voice Phase Down Discount %					
	FY2015	FY2016	FY2017	FY2018	FY2019	
90	70	50	30	10	0	
80	60	40	20	0	0	
70	50	30	10	0	0	
60	40	20	0	0	0	
50	30	10	0	0	0	
40	20	0	0	0	0	
30	10	0	0	0	0	
25	5	0	0	0	0	
20	0	0	0	0	0	

The E-rate Modernization order also eliminates support for other legacy services, such as directory assistance, text messaging, inside wire maintenance, voicemail, email, webhosting, and paging.









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