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# **REDUCTION OF ENTERPRISE COMMUNICATION COSTS - NEW HORIZONS**

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Presented by Dr. Devasia Kurian

# WHAT ARE THE COSTS?

# INFRASTRUCTURE COSTS

Switching System, Cabling, Phones



# CALL COSTS

Local, Country, International Call Charges

# OPENSOURCE & IP

# Infrastructure Costs



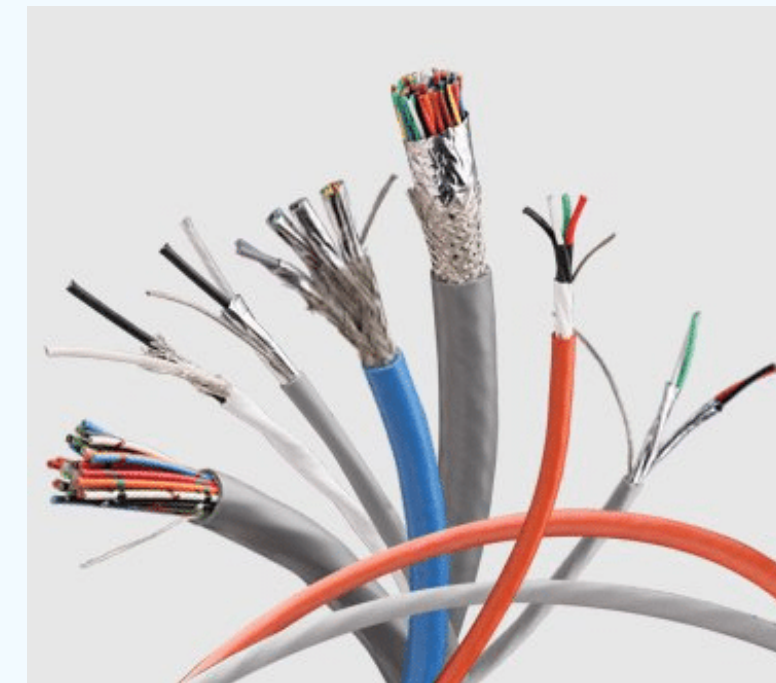
## PBX

Switching Equipment



## PHONES

Calling Equipment



## CABLING

Local Transport



# PBX

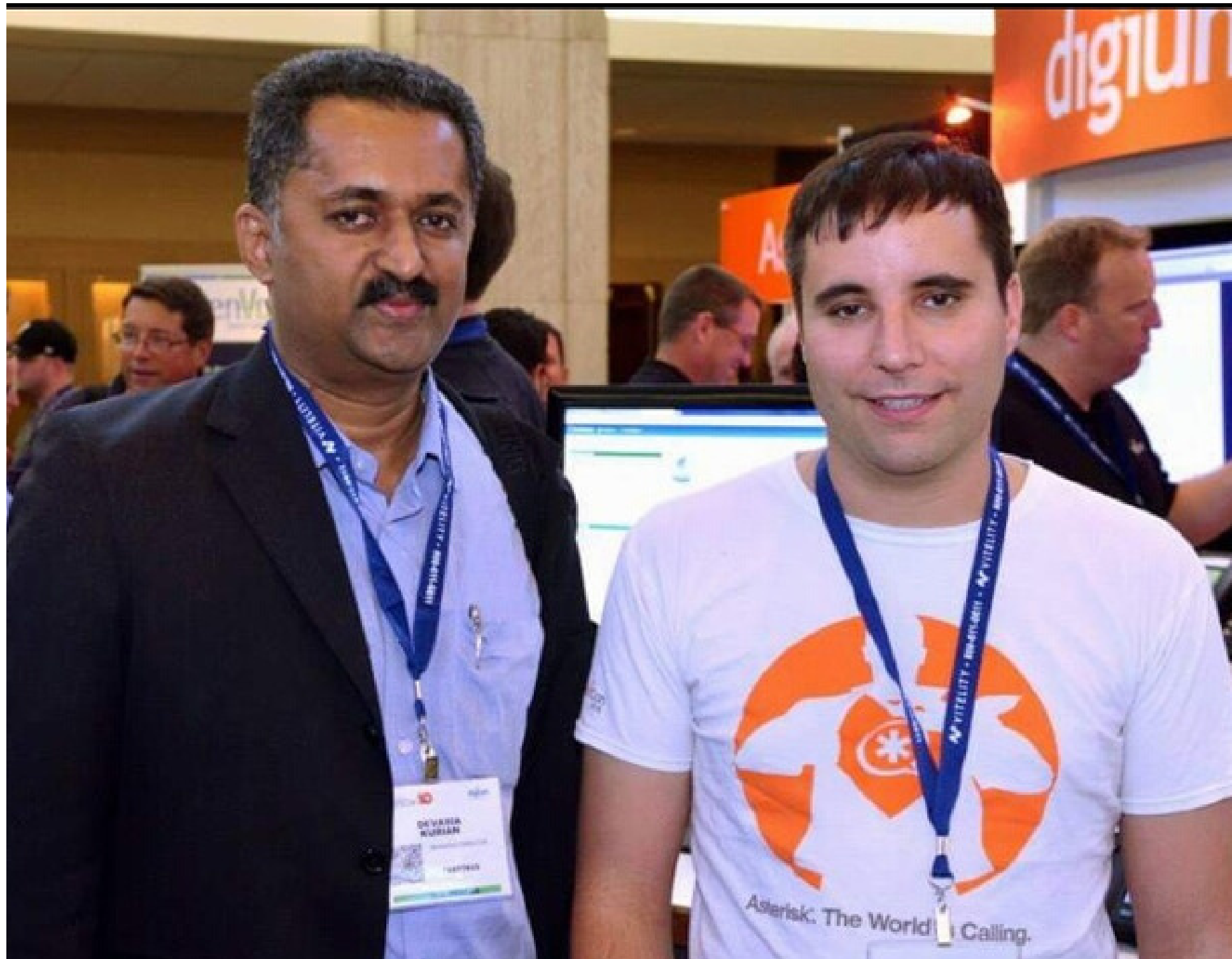


**ASTERISK**

Open Source IP PBX

- Mark Spencer started asterisk-project in 1999
- Globally most installed Open Source IP PBX
- Used by many of the Fortune 500 Companies

# A personal moment with Mark Spencer



- Software development is more of an art than a science. I try to tell people it's like trying to teach someone to write music.
- You can teach technique, but they have to have internal inspiration to do exceptional work.

# Opensource IP Phones



- Opensource softphones
- Linphone - Android, iOS, Desktop
- CSipClient
- VoIP Phones - Costly Option

Open Source Soft Phone



# Cabling



# Call Costs



## LOCAL CALLS

Calls within Karnataka



## DOMESTIC CALLS

Calls within India



## INTERNATIONAL CALLS

Calls outside India

# Local Calls & Domestic Calls



## UNLIMITED CALL LANDLINES

Wings Account, Normal  
Landlines



## UNLIMITED CALL VOLTE

Recent developments - Jio



## LIMITED CALL SIMS WITH SIM ROTATION

200 calls per day



# International Calls



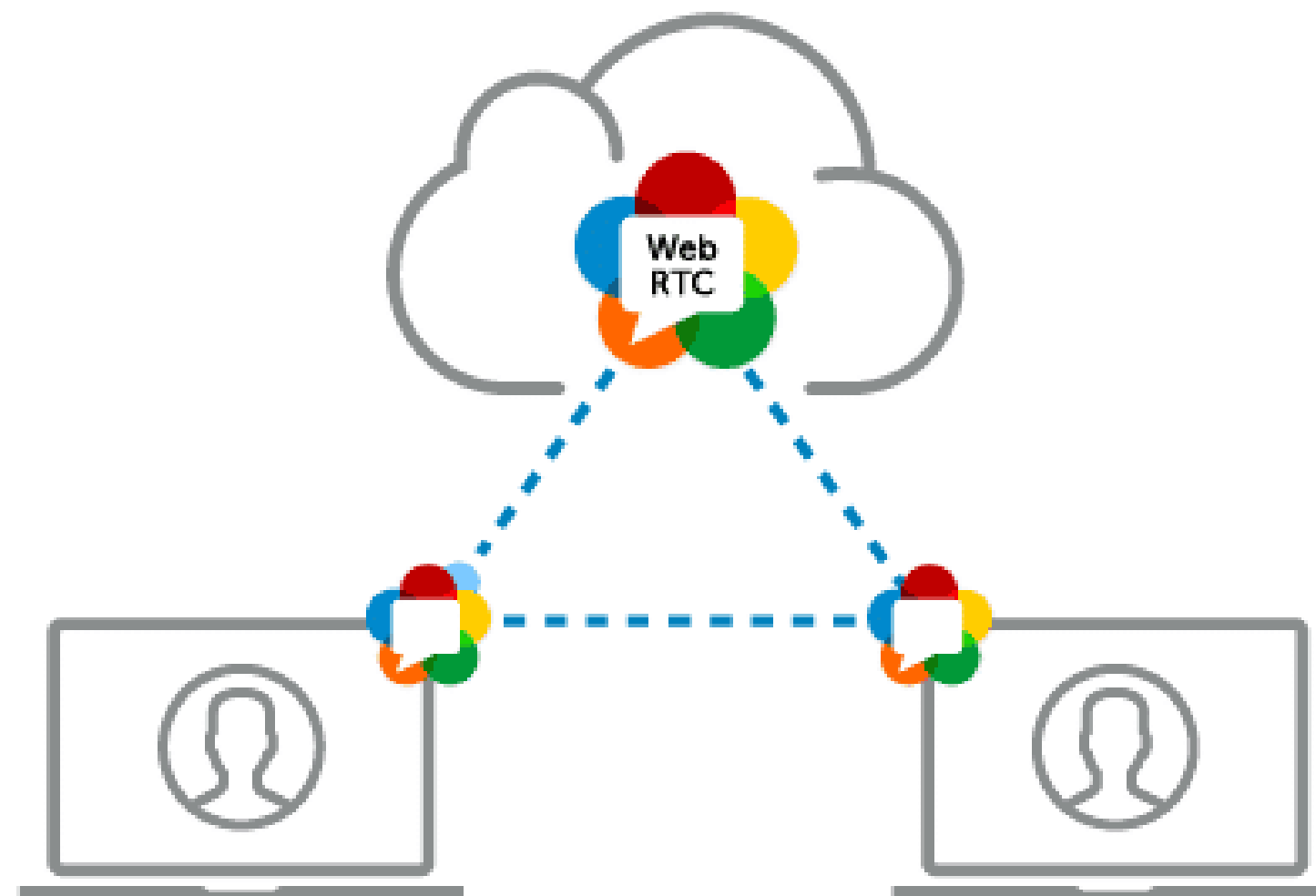
**VOIP**

Voice Calls over Internet


- Voice gets converted to IP Packets
- Travels over IP network (Internet also)
- Gateway connects to Destination PSTN
- Delivered to final destination
- Travels most of the distance over free Internet

# Tollfree numbers

- Substitute for 1 800 numbers
- WebRTC - Embed button on the web-site
- Click to Call the button
- Directly connect to call center

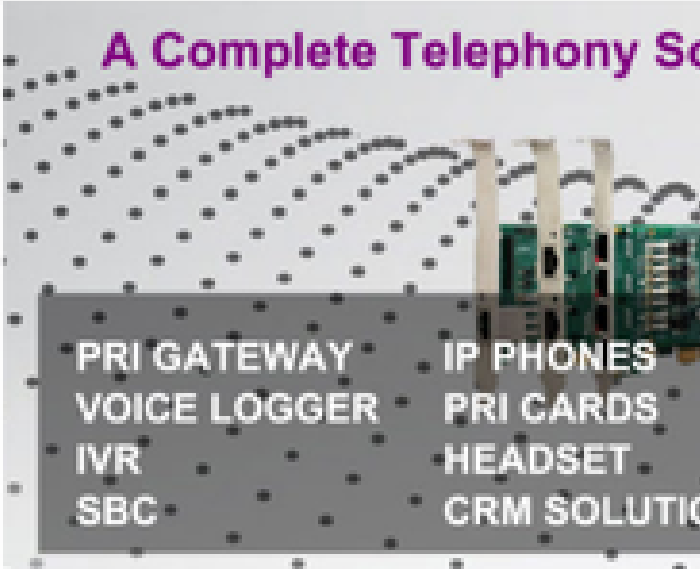


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**\*astTECS®**  
THE TRUE IP PBX  
ISO 9001:2015 CERTIFIED

About Us



**A Complete Telephony Solution**

PRI GATEWAY	IP PHONES
VOICE LOGGER	PRI CARDS
IVR	HEADSET
SBC	CRM SOLUTION



Click to talk

### IP PBX

\*astTECS IP PBX Telephony solution suits all type of enterprises, for SME's. Now Enhance your communication at half the cost.

**GET STARTED**

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# System Architecture - IP PBX



**GSM Gateway**

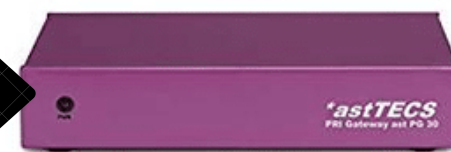
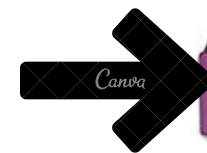
**VoIP**

**PSTN - FXO  
Gateway**

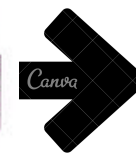
# System Architecture - Legacy PBX



**Legacy PBX**



**PRI GW**



**GSM Gateway**

**VoIP**

**PSTN - FXO  
Gateway**



	Savings Calculation		
Mode	Monthly Amt	New Amt	Saving
Local Call	5000	600	4400
STD Calls	5000	1000	4000
ISD Calls	10000	1000	9000
Tollfree	10000	0	10000
Total	30000	2600	27400

**Savings = 91%**



**FREE TELECOM AUDIT**

**CONTACT**

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