



# IVR in Virtual ACD Solutions

West Interactive Corporation

Steve McCoy, Director, Technology Strategy



**March 2008**

# Background

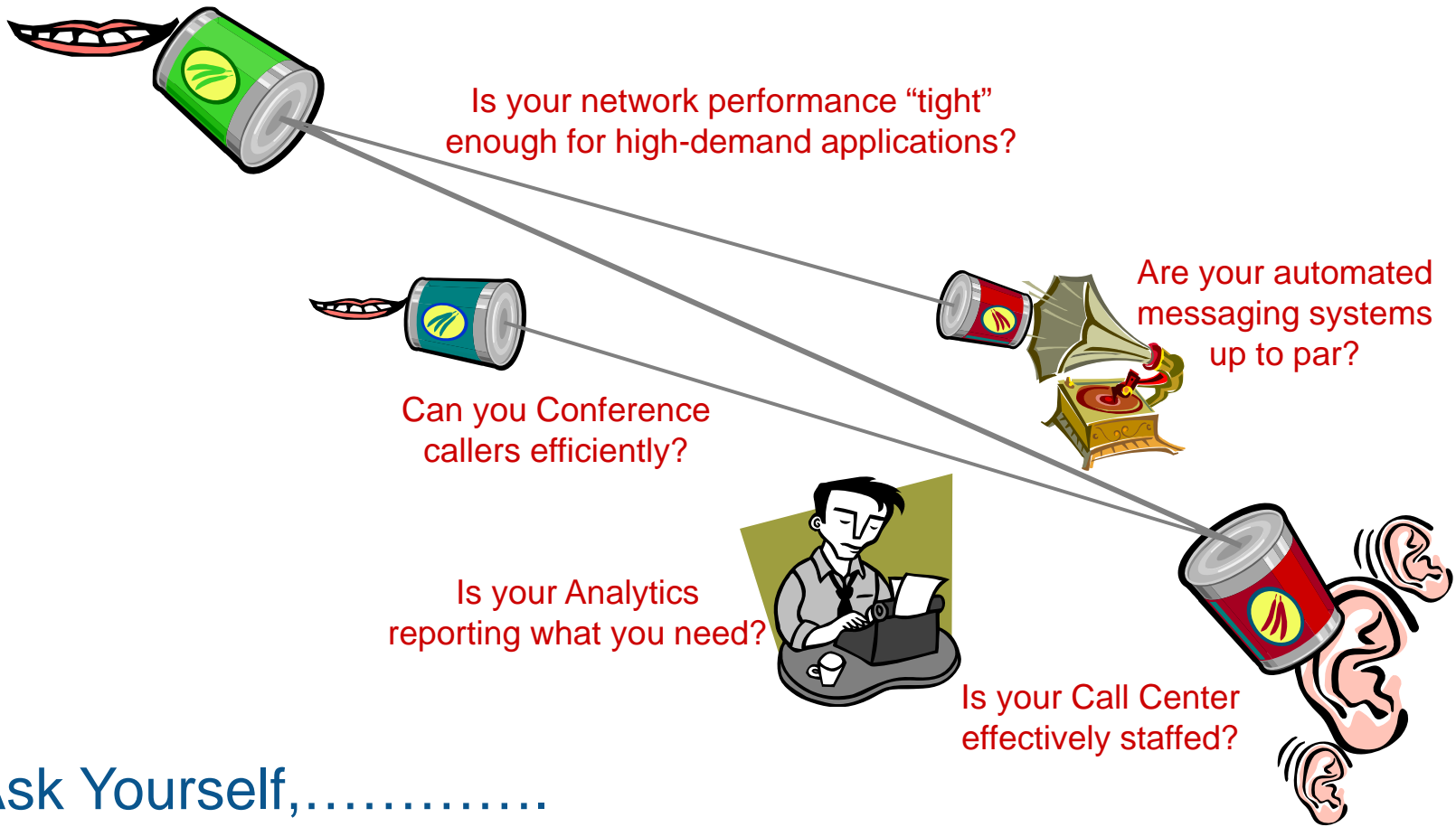


- “C203: Infrastructure for contact centers adapting to Voice Search”
  
- What is Voice Search???
  
- Some Observations / Questions
  - Is it the next generation of speech recognition?
  - Is IVR technology now an unavoidable part of Contact Center operations?
  - Is this the “Convergence” of speech recognition and analytics?
  - Through all of our adoption of “other” forms of communication in the last 2-3 decades; voice and contact centers remain critical to customer contact management.
  
- Assuming “yes” or “true” to all of the above....., How do we get ready?

# Evaluating The "Situation"



Some Basic Objectives Never Change.....



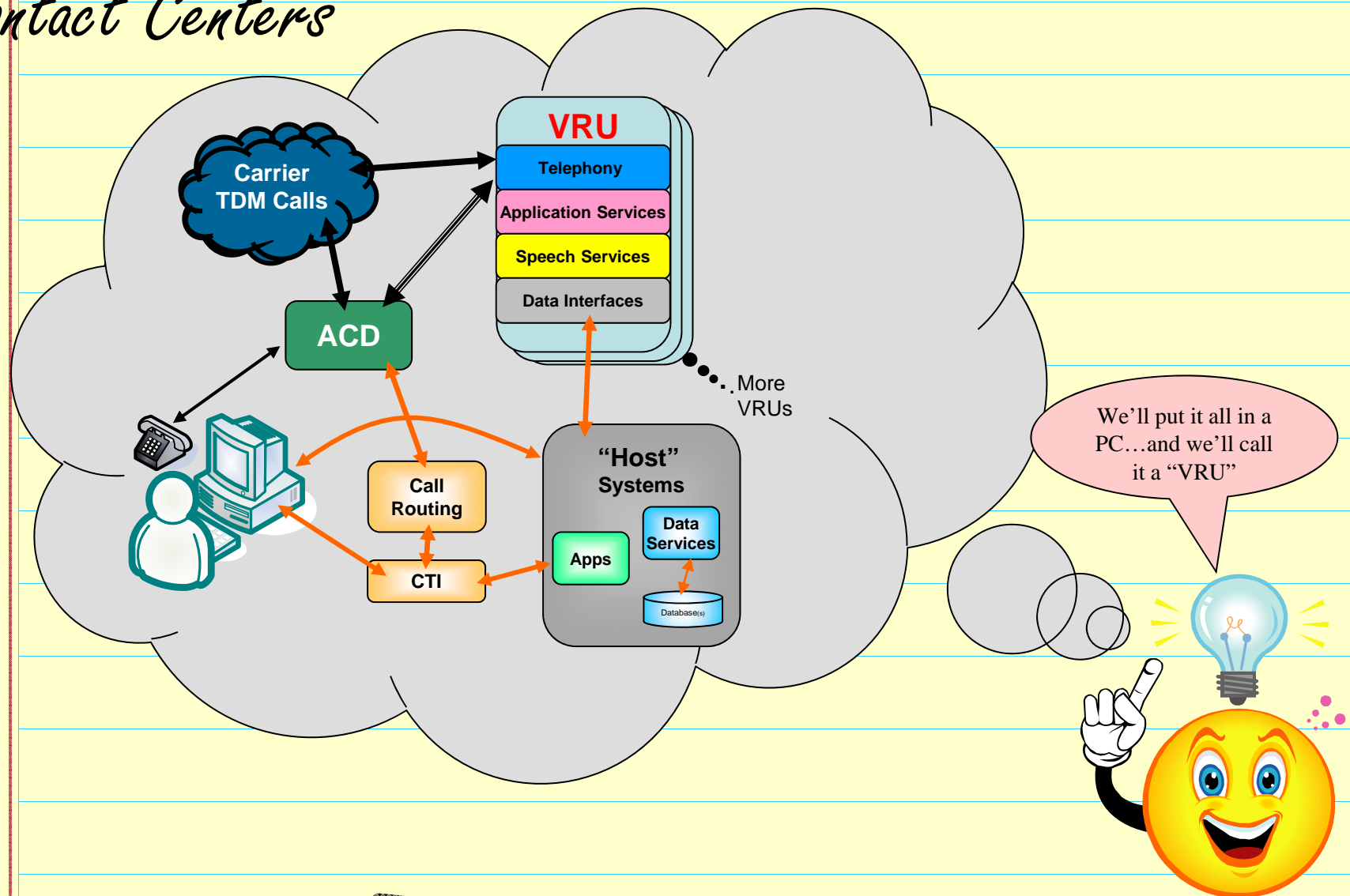
Ask Yourself,.....  
"How's my current Contact Center working???"

# Contact Center Infrastructure

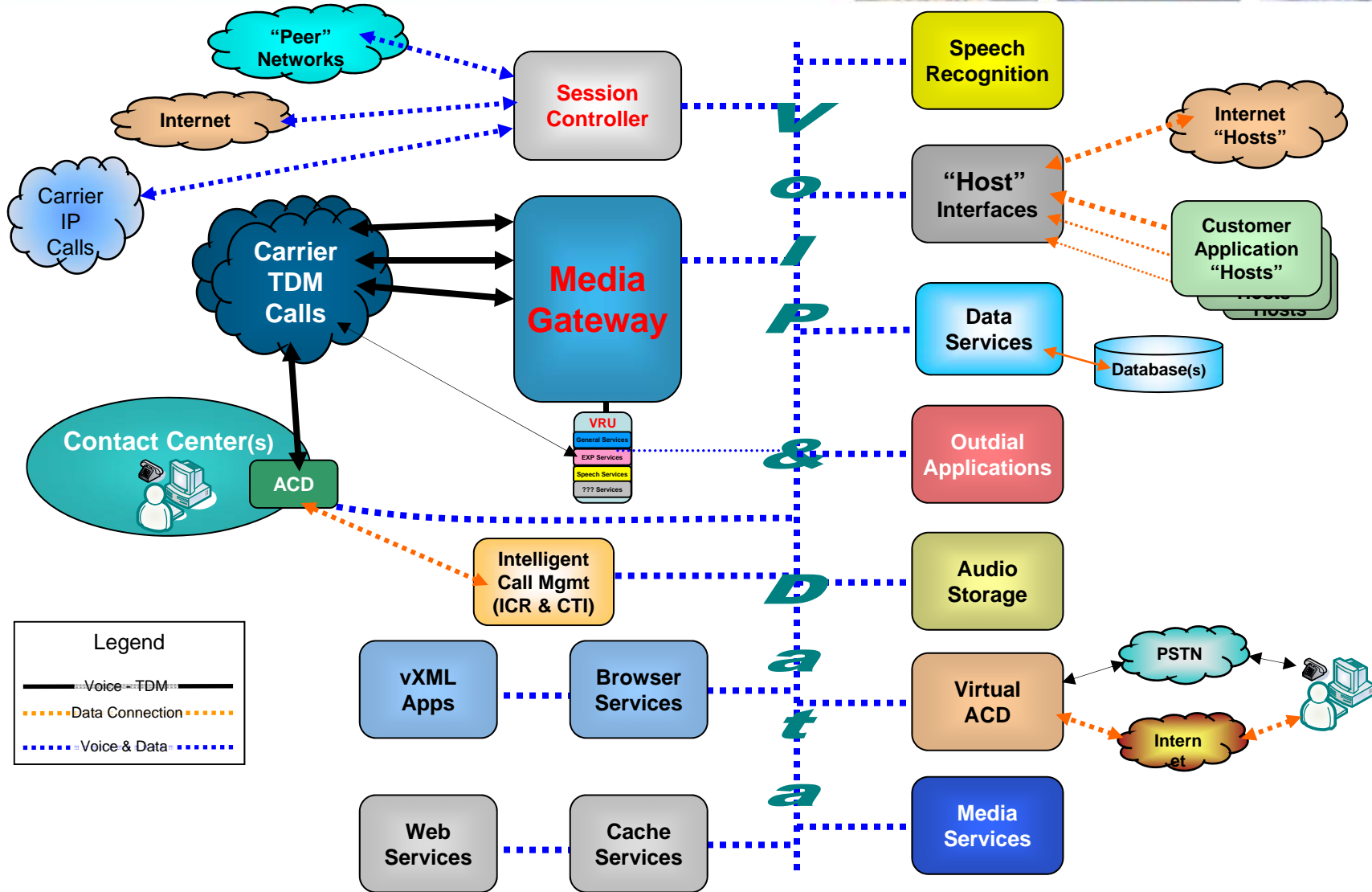


- Historically “Self-Contained”
  - Direct Carrier Connectivity
  - On-Premise ACD Telephony
  - Connectivity to Host Applications
  - Local Call Routing and CTI interfaces
  - Local “Support” Systems (Recording, Reporting, Training, etc.)
- IVR “front-ends” - Internal or External
  - A wide range of process/cost Alternatives
- The “Mission” remains largely unchanged
  - Great Service for Callers and Supported Businesses
- “Voice Search” Opportunities:
  - Continued Evolution of IVR Front-End Automation, Limiting or Improving the Agent Portion of a Call
  - Application of Speech Analytics to Improve Caller Experience

# "OLD" Approach to adding Voice Response Unit(s) to Contact Centers



# "New" Generation Architecture



# “Virtual” ACD Processing Model



- Agent Data Interfaces Similar
  - Log in to establish agent “presence”
  - Agent Profile(s), “Skills”, Workforce Management, Supervisor Interfaces
    - Multiple Distributed Services
  - Desktop is still the “Same” (application(s), “softphone” controls, etc.)
  - High Speed Internet Connectivity required
- Telephony Connectivity Multifaceted
  - Basic Requirement is for KNOWN Route to agent
  - PSTN numbers (DID) can work fine
  - Softphone Registration more complex but is evolving positively.
  - Quality Challenges with Softphones



# IVR Design Practices



- Understanding the User Interface Focus
  - Automation Outcome
  - Agent Interface Outcome
- “Dialog” Design
  - “Specialty” Skill Set that’s Critical to “Do The Right Thing”
  - *Think Like The Caller*
- Establish Caller Relationship with IVR Interface
  - Voice Selection, Context Sensitive, Data-based Customization
- Successful IVR Design Produces Dramatic Differences in the Application of Advanced Speech Technology
  - “Natural Language”
  - “Real-time” Analytics

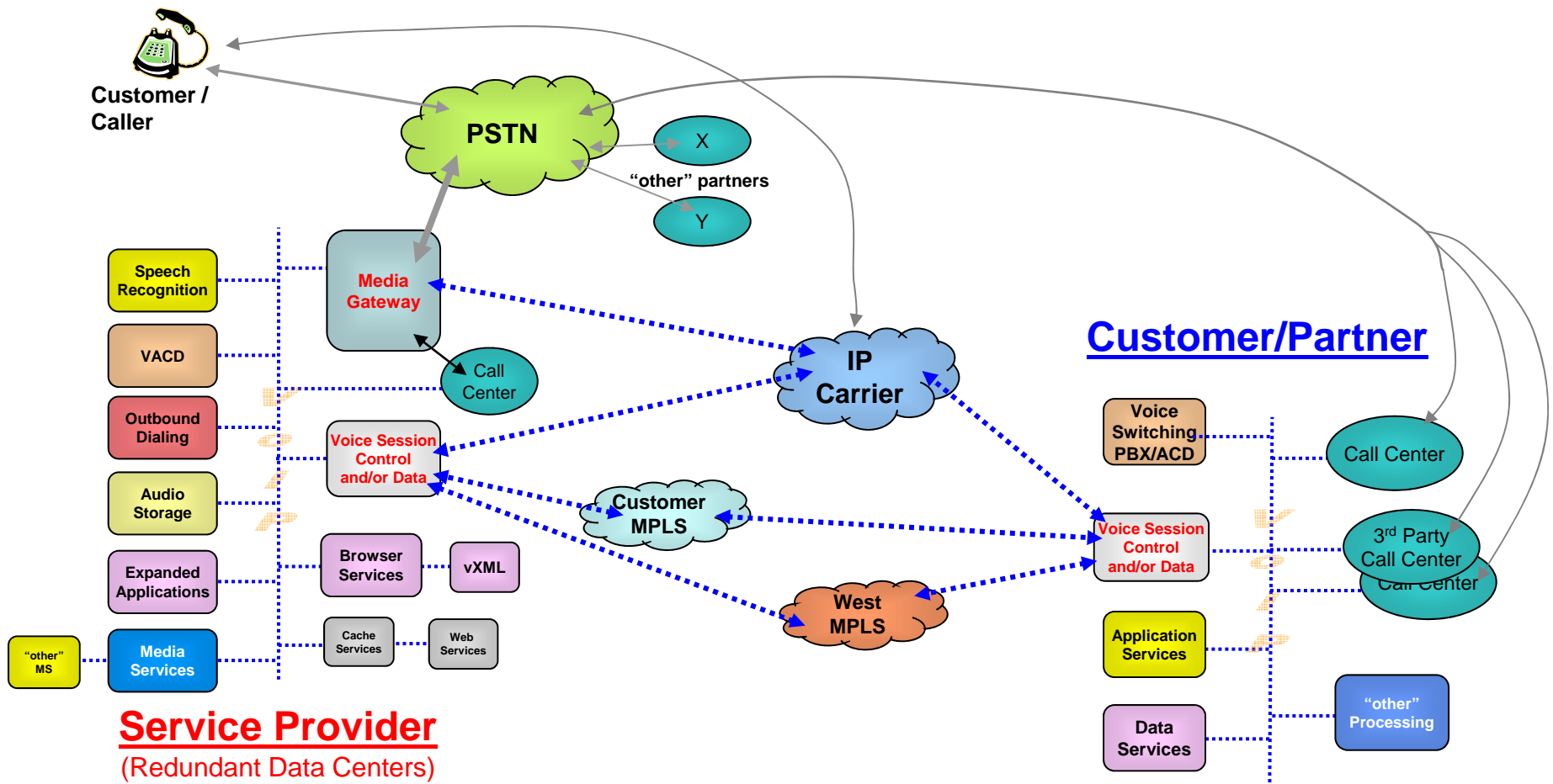


# Key Research/Decision Areas



- If You are Running Contact Centers, You Need to Examine the Following:
  - Telephony Connectivity
    - Carrier Connectivity
    - Private Networking
    - IP Replacing Circuit-switched (\*\*This is a BIG one)
      - *“The Most Under-Appreciated Technical Capability in the U.S. is The North American Dial Plan”*
  - Support Systems (IVR, Analytics, Billing, Workforce Management)
    - Self Manage
    - Outsource
  - Business Intelligence
    - “Do I Really Know What My Clients Need???”
    - Establish Internal Growth Strategies

# Connectivity Options: Convergence



# Summary



- Research Indicates Contact Centers Aren't Going Away
    - Get Ready....!!!
    - Continued Investment is Network Performance & Distributed Processing
  - “Brick & Mortar” Centers Are Not “Necessary”
    - Multiple Work At Home Solutions are Available
    - Voice Search Can Strengthen Agent Interface in All Cases
  - Good Automated Experiences Tend to Produce Good Agent Experiences
    - Invest in Producing High-Quality IVR Interfaces
  - Analytics is Changing the Landscape of Quality in Contact Center Management
- 
- What is Voice Search?
    - I don't know for sure yet, but I know it's gonna' be really cool!!!