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AT&T's Emerging Services: Services Over IP

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The world's networking company ™

Outline

1. Services Over IP & Communication Direction

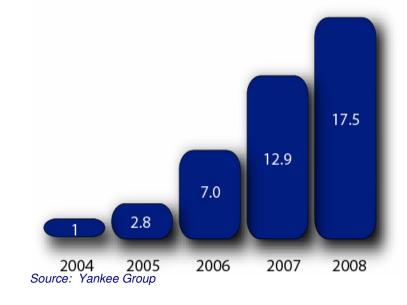
2. Example of Future Services



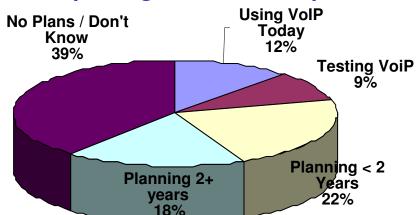
During the Past Year

Millions of VoIP US HHs...

The Buzz is Louder



...Impacting Business Adoption



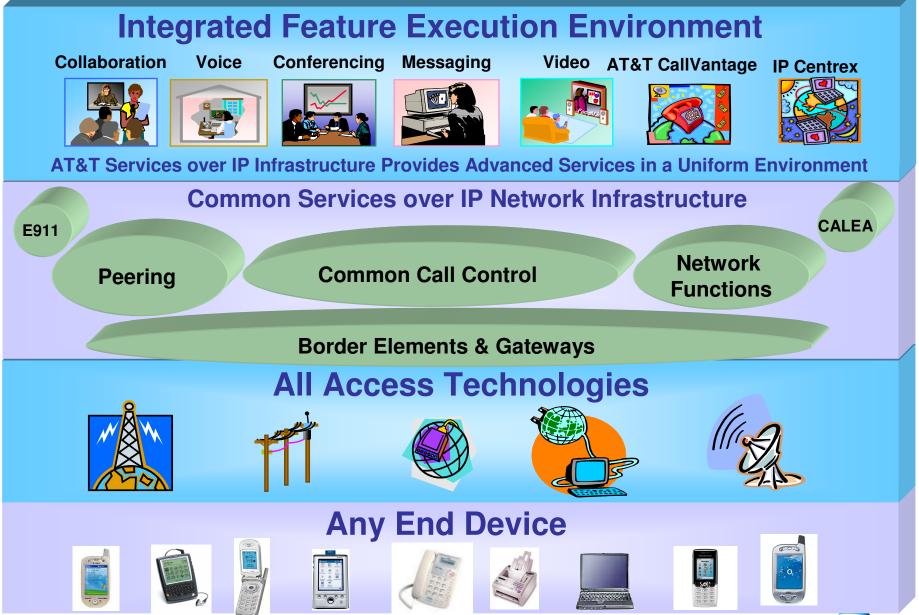
The Landscape Is Changing

Source: Economist Intelligence Unit

IP Has Eaten Everything



AT&T Services Over IP Vision — Layered Architecture



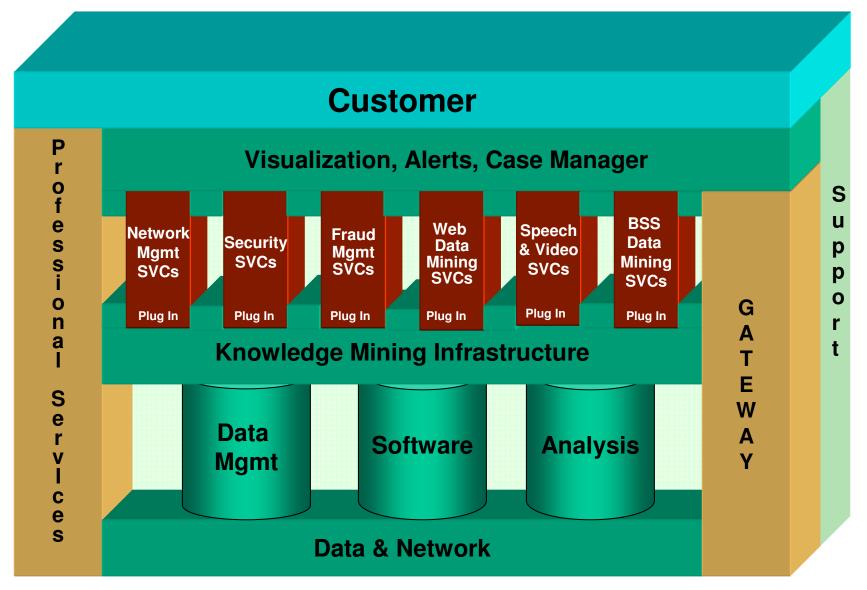
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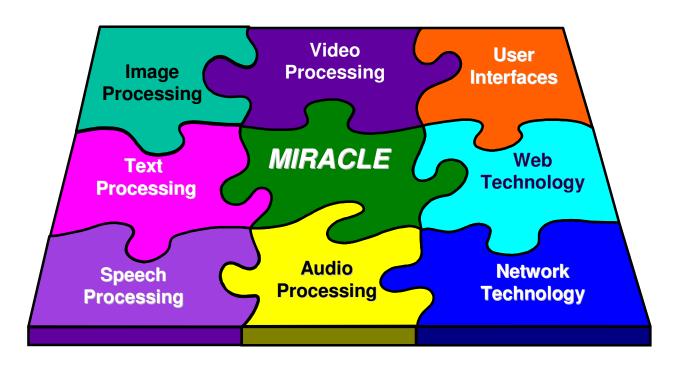


Services Over IP Framework





Services Over IP



MIRACLE – A platform aimed at creating the technologies for automated and content-based indexing of multimedia information for intelligent, selective, and efficient retrieval and browsing using IP technology

MIRACLE: Multimedia Information Retrieval by Content

- Bringing all the technologies together



Where We Are Going – Technologies and Services

Enabling Technologies

- Video Indexing
 - Generates a pictorial index for visual browsing
 - Generates a compact representation
- Speech / Audio Processing
 - Enables searching of spoken communications
 - Speaker segmentation improves browsing
- Video Search
 - Content-based and metadata-based indexing
 - Information Retrieval

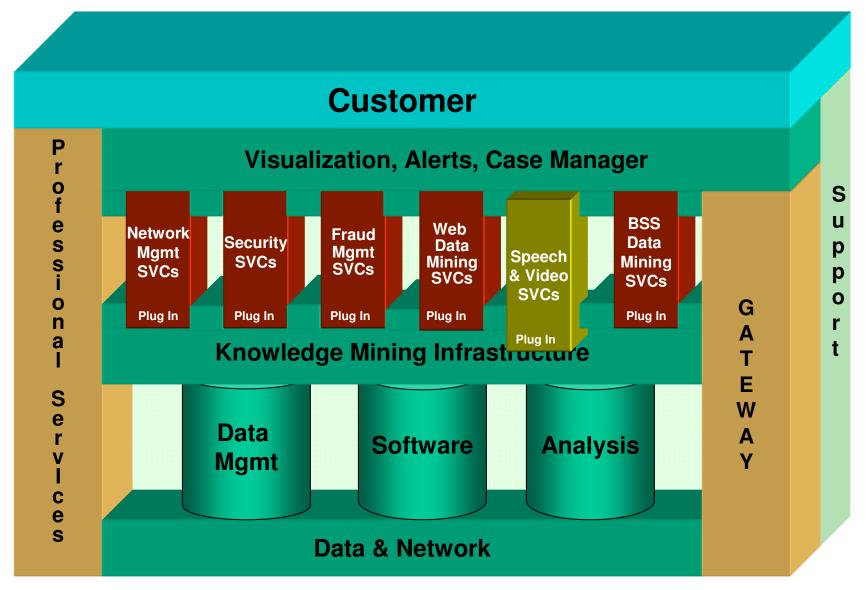
New Service Concepts

- Miracle: IP Video Search Engine
- MediaAlert: Content Monitoring and Alerting
- Enhanced VoIP Conferencing



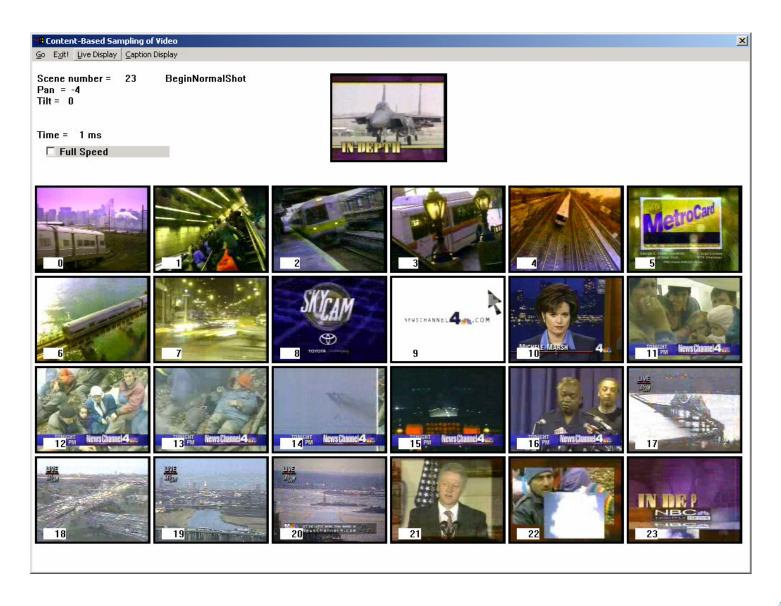


Services Over IP Framework



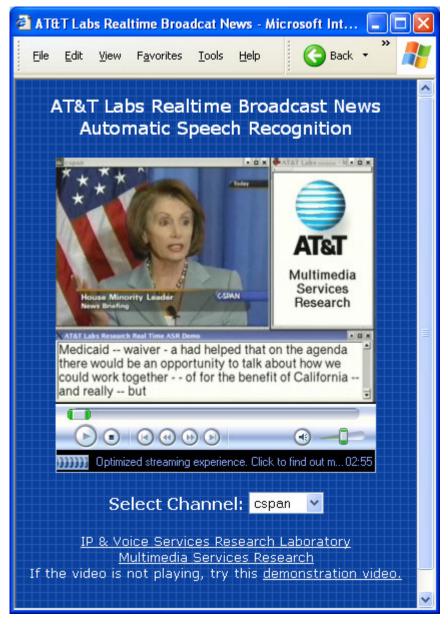


Video Indexing: Content-Based Sampling





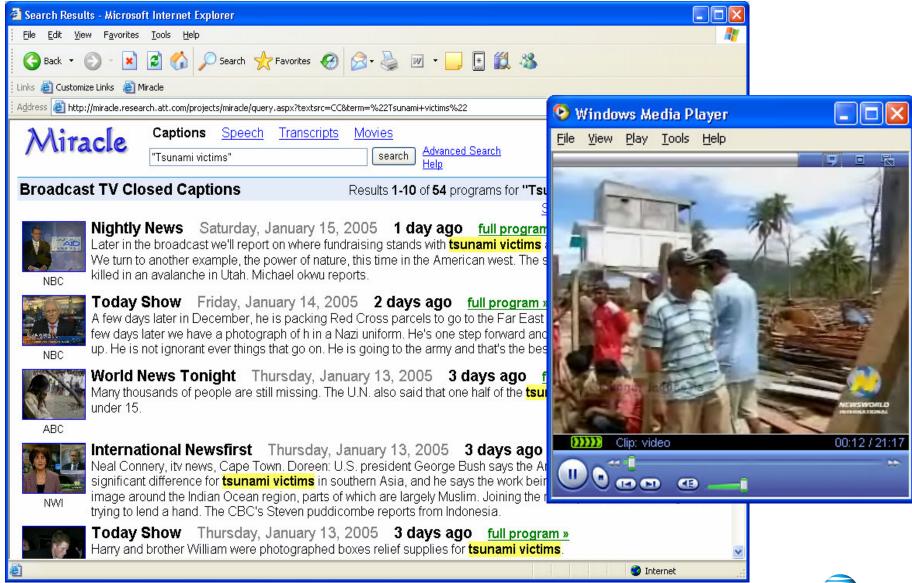
Technologies: Real-Time Automatic Speech Recognition



- Enables automatic indexing of spoken communications
- Features:
 - Large Vocabulary (210,000 words)
 - Real-Time Response
 - Low Latency
 - High Word Accuracy



Miracle Video Search Engine

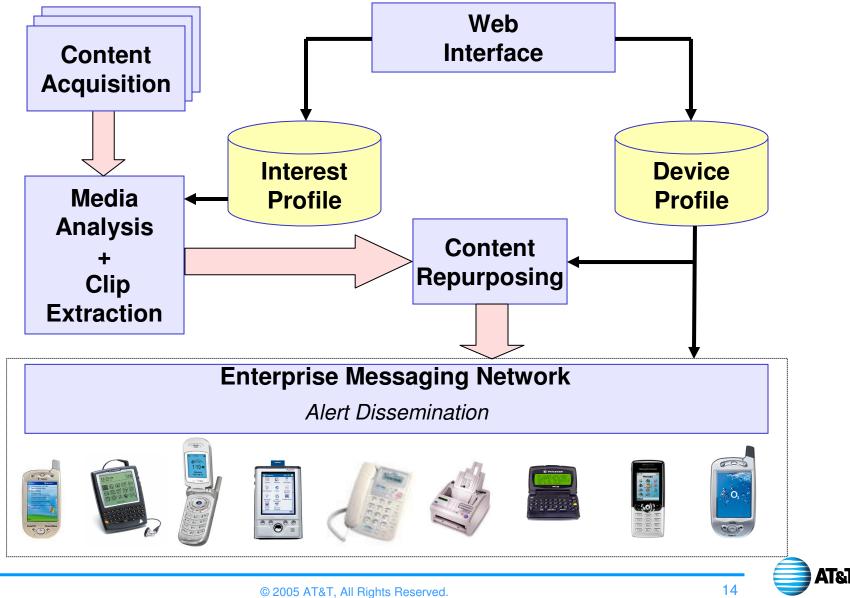


Miracle Video Search Engine

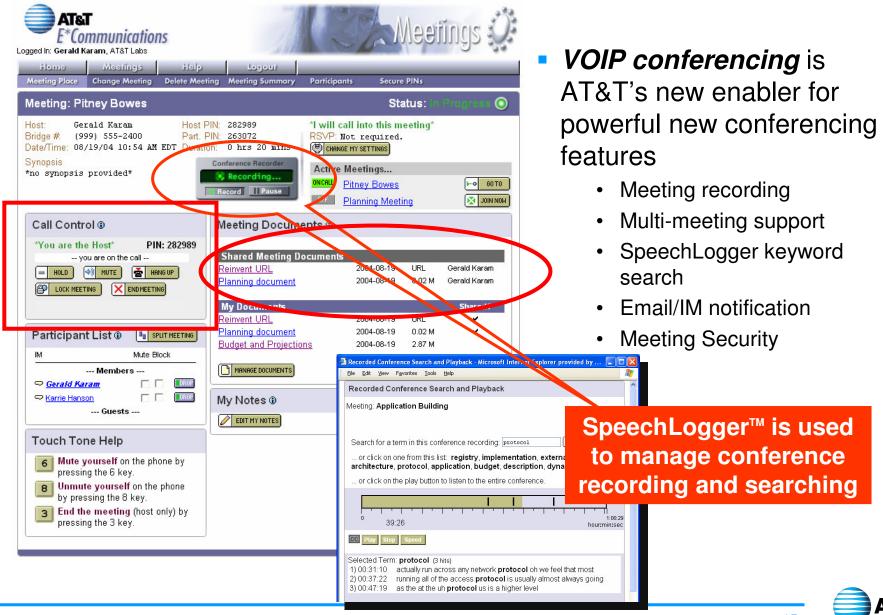




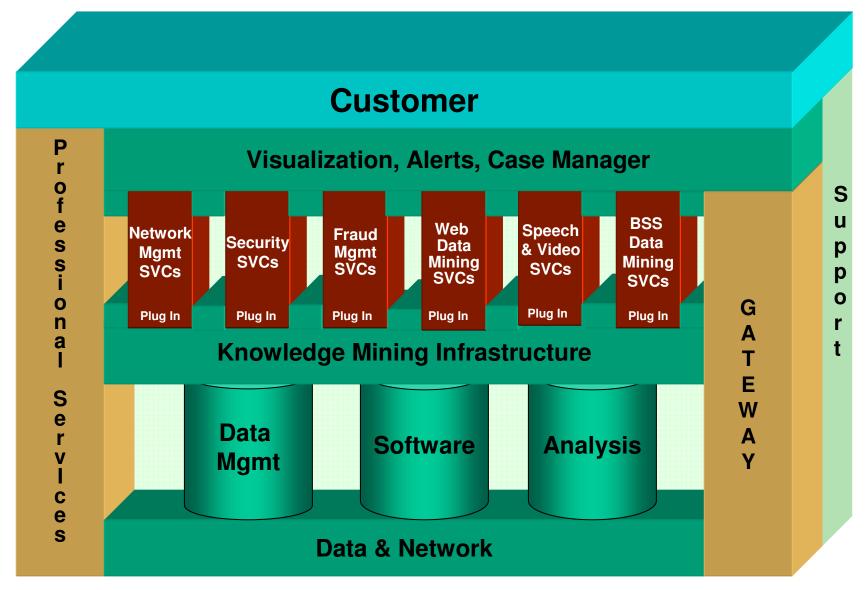
MediaAlert IP Services



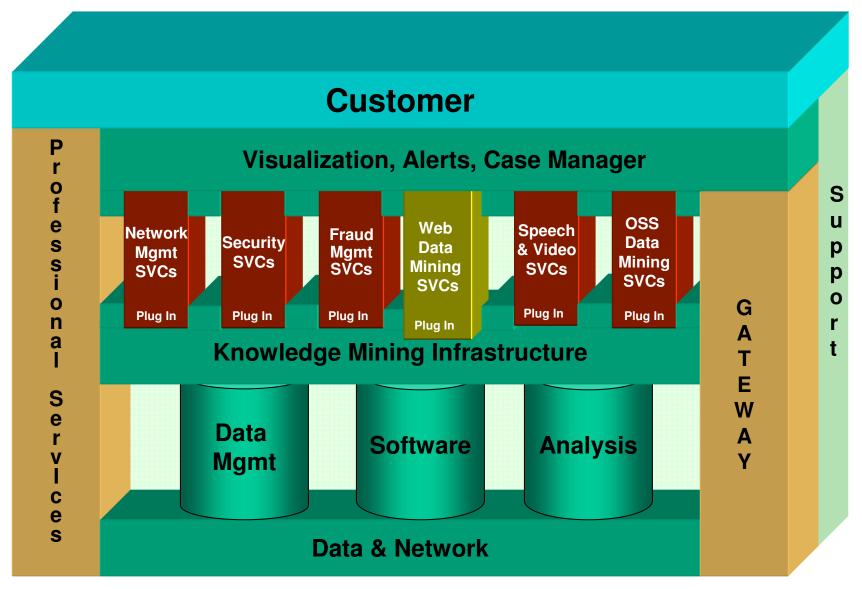
Enhanced Conferencing

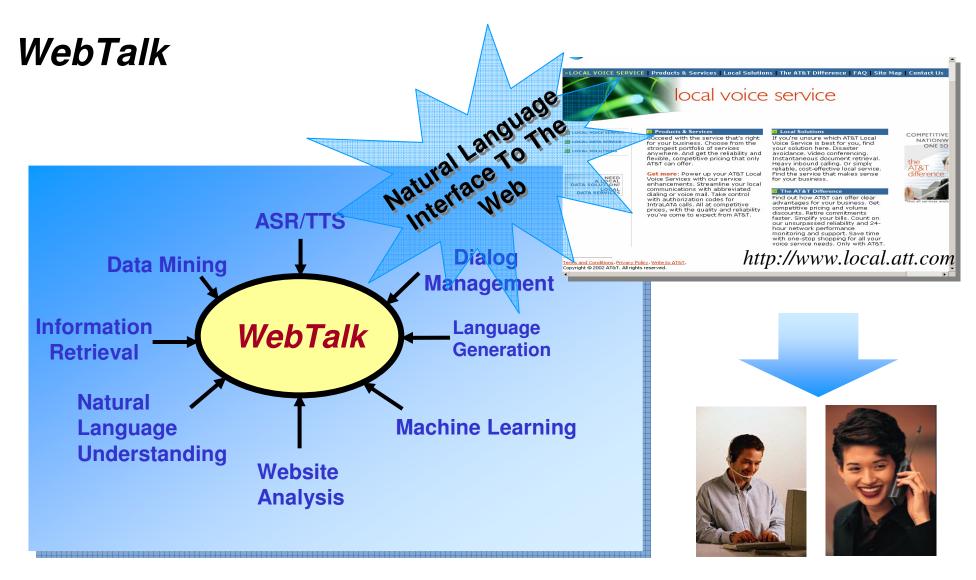


Services over IP Framework



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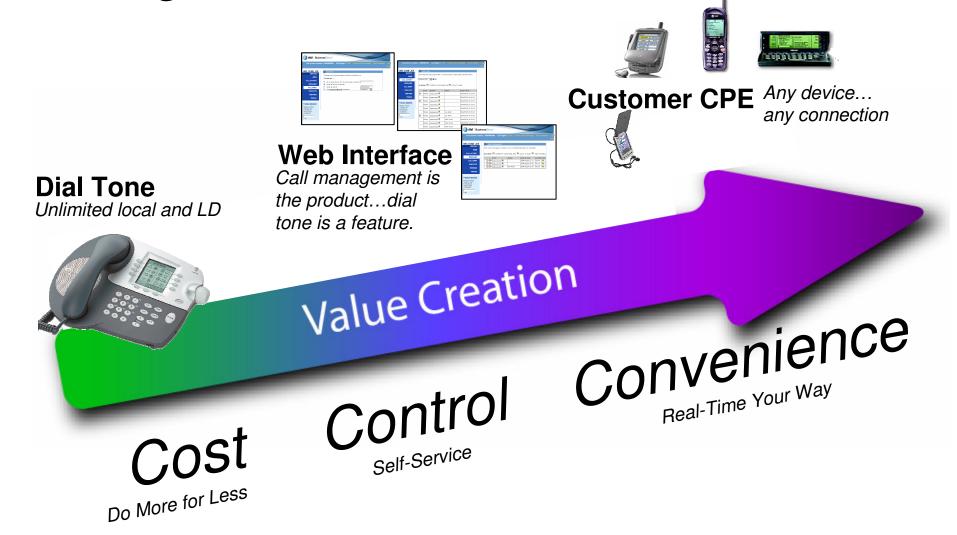


Automatic spoken dialog system building based on a set of Web pages

WebTalk



Unlocking Customer Value



Leveraging AT&T Labs Innovation, AT&T Will Continue to Provide New Services, Unlocking Value for Our Customers



Thank You!



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