

Beyond Triple Play

... the path to Convergence



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Industry Issues: The challenges facing operators

Business Issues

- Erosion in voice revenue
- Cable or CLEC Competition in Triple Play
- Emerging ASP's
- Commoditization of Broadband
- Service Innovation

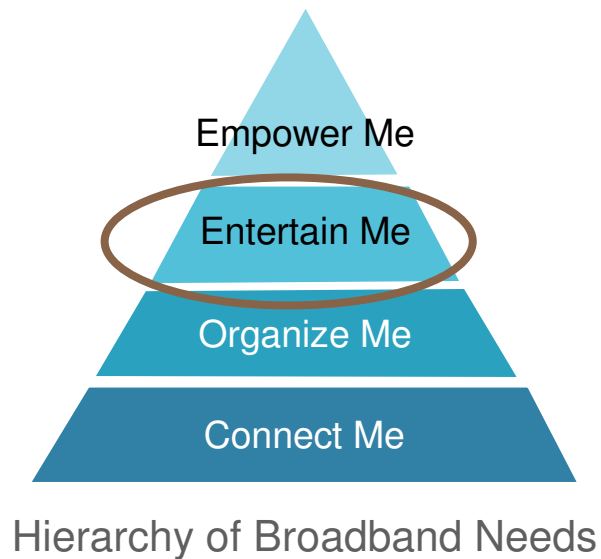
Network Issues

- Bandwidth Limitations in Last Mile
- Legacy Networks – Operational cost structure unsustainable
- Legacy Networks – Capacity Constraints on a cost/bit basis
- Best Effort Network Architecture – incompatible for multimedia services

Requires a fundamental Business Transformation

Changing user expectations an opportunity to fill unmet need

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- BASIC Needs:
- Right Content
- Image Quality
- Service Continuity

- UNMET Needs:
- More Personalized
- More Interactive
- More Access
- More SIMPLICITY

User-Centric
Broadband
Experience

Source: Alcatel focus group research, April 2004

Project Lightspeed: A \$6B Network & Service Transformation Project



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PROJECT LIGHTSPEED

SBC COMPANIES PLAN TO BRING A NEW, IP-BASED, FIBER-RICH NETWORK VIA THE PROJECT LIGHTSPEED INITIATIVE TO 18 MILLION CUSTOMER HOUSEHOLDS.

Integrated Communications and Entertainment Services

- 20-25 Mbps
- Everything IP

IPTV

4 high-quality TV streams, including high-definition TV, and video-on-demand

High-Speed Internet Access

IP Voice

Full-featured offering – growing wireless integration

Financials:

- ~\$5B CAPEX over next 3 years
 - Network (\$275/home pass) and Premises (\$400/sub)
- ~\$1B for Service Roll-out
- Free Cash Flow burn ~\$7B by 2010
- Top-Line Improvement ~\$7B by 2010
- Operational Cost Savings ~\$300M/year

Project Lightspeed: A \$6B Network & Service Transformation Project

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Strategy:

- Select markets and customers approach
- Focus on delivering a differentiated video proposition through "Personalization"

Roll-out

- Reach 18M customers by 2007 (17M FTTN, 1M FTTP)
- By 2010 pass 50% of consumer lines

Target Customers

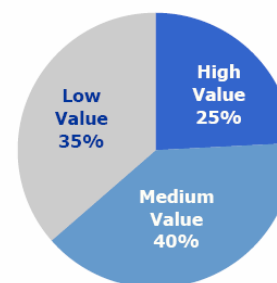
- Focus on High Value Customers (90% by 2007)

Target Subscribers

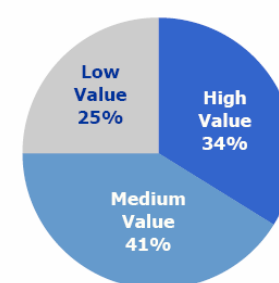
- Target 5M subscribers through Project Lightspeed by 2010
- Target video subscribers 3.6M (~25%)

High-Value Customers

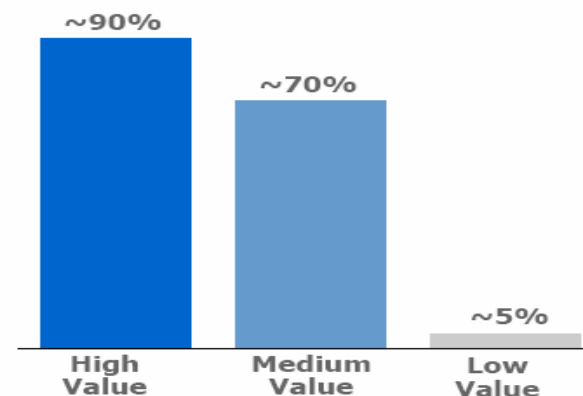
Total Customer Household Segmentation



% of Customer \$ Spend Attributed to Each Segment



Percent of Each Segment Covered by Project Lightspeed



Project Lightspeed: A \$6B Network & Service Transformation Project

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Drive Fiber deep into the last mile

- Full IP network from end-to-end
- FTTN 20Mbps; FTTP 39Mbps
- Manage services through a Routed Home Gateway

Core and Aggregation Network

- Ethernet Aggregation (VPLS)
- Service Routing on a per-sub basis
- R-OADM for optical transport

Video Distribution

- National Head-End (2 Master)
 - Local channels, commercials, etc.
- Regional Head-End (40)
 - Collection of video streams ready per demand
- Local Video Office (140)
 - WMP 9 or MPEG 4

Network Alternatives

Fiber to the RT (Pronto)



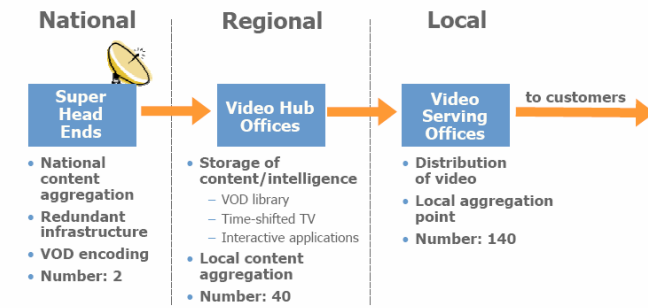
Fiber to the Node (FTTN)



Fiber to the Premise (FTTP)



Project Lightspeed Video Network Architecture



SBC Investor Update

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Project Lightspeed: A \$6B Network & Service Transformation Project

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Alcatel awarded primary supplier role in Project Lightspeed worth \$1.7B

1) Network infrastructure



- IP routing: 7750 SR
- Ethernet switching: 7450 ESS
- Deep fiber access: 7330 FTTN & 7340 FTTU

2) Video service integrator

- IPTV Head end, middleware, content management, conditional access and DRM, home networking and STBs

3) Network system integrator

- Network design, traffic modeling, resiliency, performance metrics, component interoperability, integration of management systems.

 Alcatel's Role 

- A Partner, not a Supplier
- Joint development of requirements and roadmap
- Joint testing in labs and field
- Joint management of 3rd party solution components
- Joint Program Management and Governance structure

11/04/2004 Page 2 SBC Proprietary & Confidential Project Lightspeed

Project 21CN: A finite window of opportunity

\$19B Business Transformation

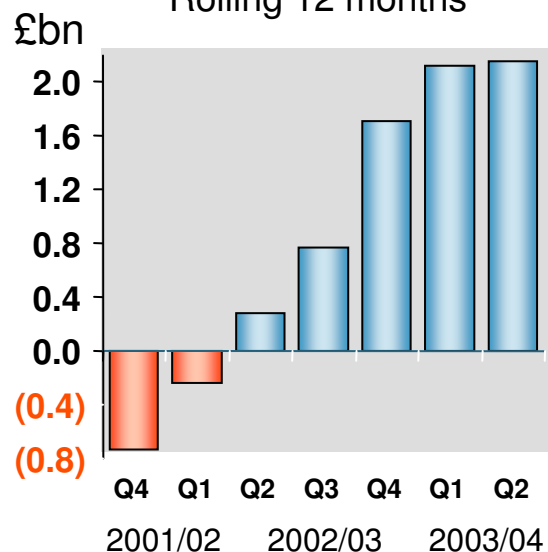


"We decided that the only way to survive is to be aggressive and innovative, and we have had to commit our strategy and investments" into the 21CN..."

BT CEO, Paul Reynolds)

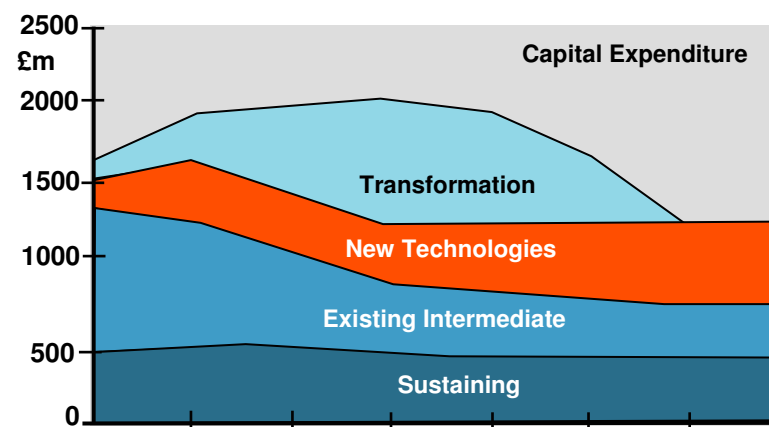
The Means but not for long....

Free cash flow (before dividend) **
Rolling 12 months



Fundamental restructuring of their cost basis

Investing now for future cash savings of £bn

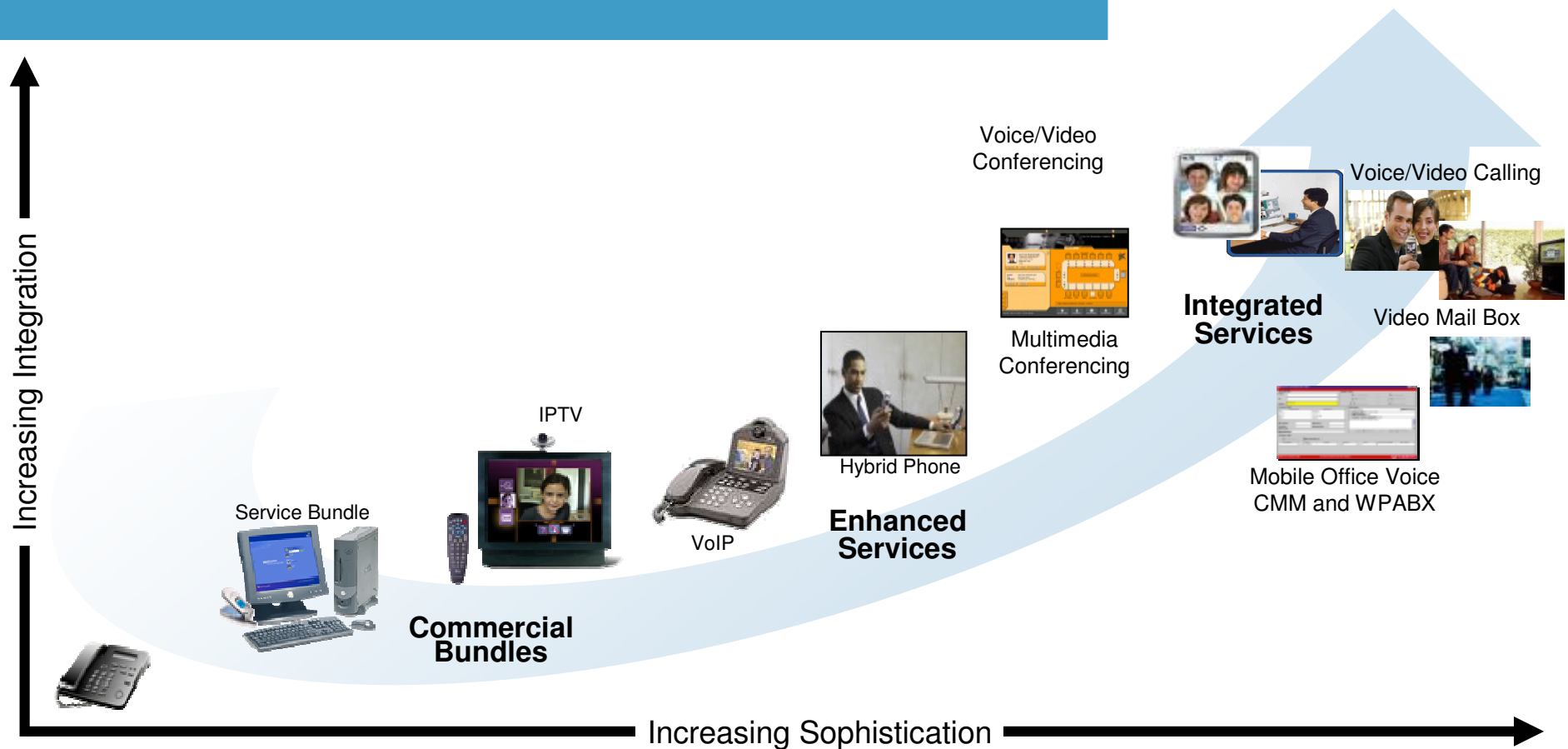


- Will contribute to existing cash cost savings in Retail and Wholesale up to 2004/05
- Beyond 2004/05, aim to find incremental cash cost efficiencies of £200-300m pa resulting in c £1bn beyond 2008/09
- In addition, other non-network efficiencies will continue to be made throughout the group

21st Century Network All within the £3bn pa capex envelope



Deliver a Roadmap for New Services



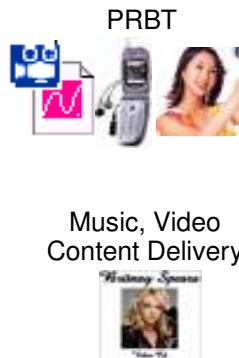
New Services are Powered by IP Transformation

Innovative Pre-Integrated Hybrid and Multimedia Services

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Consumer Applications

MUSIC



VIDEO

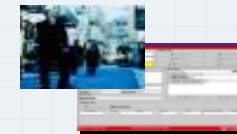


Multi-Access Mobility



Corporate Applications

Mobile Office Voice
CMM and WPABX



Mobile Office Data
Email, PIM, Intranet



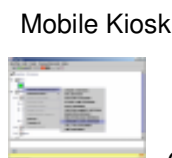
Voice and Video
Conferencing



Multimedia
Conferencing

Payment and Common Capabilities

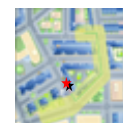
Real-Time
Payment



Mobile Kiosk



Content Value Charging



Location

Presence



Announcement Machine



User Profile

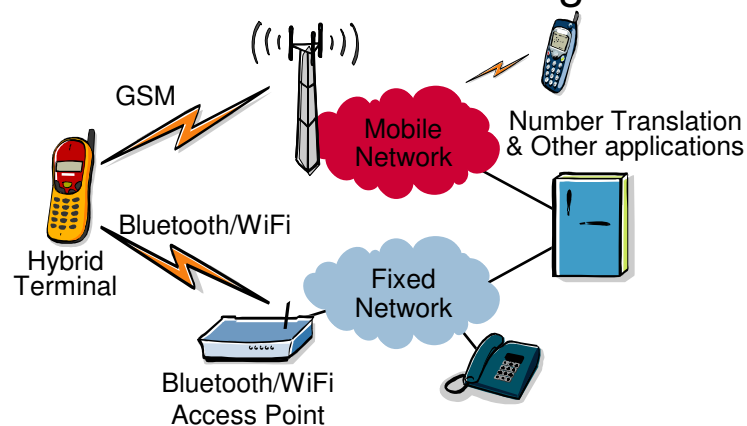
Proof Point: Service Integration for Converged Applications

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Tackle the threat of F-M substitution



Alcatel as end-to-end integrator



The best of both worlds

- BT landline **rates** when you are at home or office
- Competitive **mobile** bundled minutes when you are out and about
- **Free** BT Fusion Motorola v560 phone
 - **Stylish**, compact flip phone design with large, vivid colour display with video and camera
- **Free** BT Hub to wireless network your home



Commercial roll-out started Sep-05
Currently 13,000 residential users
2,000 new connections per week
BT now also targets corporate users

Source: LightReading, 9-Feb-06

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T-Systems and Alcatel seal strategic partnership at CeBIT

The cell phone as full-feature phone extension line

Frankfurt am Main / Hanover, March 14, 2006

Today, T-Systems and Alcatel signed a strategic alliance at CeBIT. Both companies will jointly develop, implement and market office communications systems. Seamless communication solutions, which connect mobile communication devices with the fixed-line network, are the focus of the cooperation. This will enable users will have the same functions available on their cell phones as on their fixed-line telephones. The first joint solution is ready to hit the market.

T-Systems will offer its customers a system from Alcatel that transforms cell phones into a full-featured fixed-line extension. Cell phones will thus become an integrated part of the private branch exchange system. Employees will have the same cell phone and fixed-line phone number. Users no longer need to manually switch their cell phones from fixed-line to mobile operation mode. The communication system receives incoming calls centrally and transfers them to both the fixed line and cell phone at the same time.

Ulrich Kemp, Head of Sales & Services for Business Services at T-Systems, says: "For the first time ever, Alcatel will be able to achieve seamless communication with its solution. The company is way ahead of its competitors. Together with our operating model, this enables us to be ready for the market very quickly. We're able to offer a complete solution, including services and optimal customer care at a reasonable price."

Next Step



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Triple Play



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