Commonwealth of Pennsylvania
Keystone Communications
Project Overview

April 25, 2002
Background

- Keystone State as innovative, worldwide technology leader for 21st Century
  - Pittsburgh Digital Greenhouse (system on a chip)
  - First in nation to enact e-signature legislation
- Largest state telecommunications contract in state history
  - (Est. $80 million/year investment in current service).
- Full build-out of an advanced telecom network for state government.
Commonwealth Objectives

↑ Provide high bandwidth, advanced, reliable and cost effective telecommunications services to state government.

↑ Make similar features available and affordable to other non-state government users.

↑ Promote the private investments needed to expand PA’s commercially available public telecommunications infrastructure.

↑ Aggressively encourage the introduction of competition into all categories of telecommunications.
CTS Contract Award – effective May 2, 2000

Five Year Contract awarded to PA Team Consortium

- Provide all telecommunications services to all Commonwealth agencies under the Governor’s jurisdiction.

- Optional for independent state government agencies.
  - Category 1 and 2 Users

- Optional to local government, public schools, public libraries, and Community Colleges.
  - Category 3 Users
# PA Team Consortium

<table>
<thead>
<tr>
<th>PA-Team Member</th>
<th>Role(s) Within the PA-Team</th>
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<tbody>
<tr>
<td>Adelphia Business Solutions</td>
<td>Consortium Prime. Program/Transition Management. Integrated Communications Service Provider with advanced fiber optic networks covering the eastern part of the country, including PA. Chief service provider for local, data, and video services. Headquartered in Coudersport, PA.</td>
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<tr>
<td>Electronic Data Systems (EDS)</td>
<td>Significant contribution to transition planning and management, development, operation, and maintenance of the EC/EDI platform and ISS software, design of network security, design and management of the NOC.</td>
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<tr>
<td>GEC Marconi (FORE Systems)</td>
<td>Chief Network Architect for CTS Data Services. Supplier of core network ATM switches, MAN devices, and integrated access units. Headquartered in Pittsburgh, PA, for all data network locations.</td>
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<tr>
<td>Qwest</td>
<td>Provider of Long Distance Services, Calling Card services, and Internet services. Also chief integrator of the Internet 2 component of the proposal for SSHENet.</td>
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*Commonwealth of Pennsylvania*  
Keystone Communications Project
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<td>Lucent Technologies, Inc. (Lucent)</td>
<td>Chief network architect for CTS local voice services through the delivery of the 5ESS switching platform.</td>
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<tr>
<td>Verio</td>
<td>Provider of Internet services and IP management expertise. Incumbent Internet service provider to the Commonwealth.</td>
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<tr>
<td>Telesoft</td>
<td>Provider of education- and government-specific automated billing services expertise.</td>
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<tr>
<td>Exelon (A PECO Energy Company)</td>
<td>ABS business partner providing right-of-way and fiber construction expertise.</td>
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<tr>
<td>Allegheny Energy</td>
<td>ABS business partner providing right-of-way and fiber construction expertise.</td>
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<tr>
<td>Comcast</td>
<td>ABS business partner providing right-of-way and fiber construction expertise.</td>
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<tr>
<td>Susquehanna Communications</td>
<td>ABS business partner providing right-of-way and fiber construction expertise.</td>
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<tr>
<td>Diversified Data Systems (DDS)</td>
<td>Provider of ISS training (SERB); support Help Desk staffing</td>
</tr>
<tr>
<td>Barbara Black Training</td>
<td>End User Telephonic and Voice Mail Training (SERB)</td>
</tr>
<tr>
<td>Innovative Business Concepts</td>
<td>Change Management (SERB)</td>
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Summary of Key Reasons for Award

Investment in Pennsylvania and Public Network Infrastructure

• Proposed a public network architecture to deliver the required services.

• Proposed network architecture facilitates the deployment of advanced technologies.

• Significant commitment to public infrastructure enhancements throughout Pennsylvania (ABS corp. strategy; Allegheny Power pilot broadband wireless).

• As additional services are purchased by Category 3 users, PA Team will build more infrastructure within the Commonwealth.
PA Team Advanced Technology

Proposed Infrastructure: ATM, SONET, DWDM, and broadband wireless

- Because of CTS, PA Team and other business partners will market advanced technologies to small business throughout PA.
- Extend advanced technology beyond urban centers.

Delivered through these technologies:

- High Speed Internet via DSL (Digital Subscriber Line) Platform
- High Speed Internet via Cable Modem Platform
- High Speed Internet via High Speed Wireless Platform
PA Team Advanced Technology

High Speed Wireless Potential

- LMDS (Local Multi-point Distribution System)
  - Fixed wireless technology in 31 GHz spectrum range.
  - ABS licenses in PA can allow them to blanket entire state.

Allegheny Power Initiative: commit to build three high speed wireless test networks in Greensburg, Erie, and Bloomsburg

- Offer voice, data, and Internet ranging from 1.5Mbps to 25Mbps: E-commerce.
- If test successful, commit to build additional networks to reach up to 25 rural communities.
PA Team- Added Value

KeyNet Alliance Proposal

- Fund delivery of enhanced services to users in underserved areas (rural and urban) within the Commonwealth.
  - $10 million commitment; Additional $90 million based on results obtained through initial $10M;
    - With Commonwealth match, yields potential $200M investment in PA for telecommunications infrastructure.
  - Matching funds could come from existing state or federal economic development, or other sources
  - Aligned with DCED/Team PA initiatives (KOZ’s, etc…)
Potential projects identified by Key-Net’s Development Committee:

Goal = underserved areas of PA

Anticipated Key-Net projects will be driven by:

• Economic development goals, or
• Education
KEY-NET ALLIANCE

Underserved” established by demonstrating several factors, notably:

- Gaps in infrastructure
- “Digital Divide”
KEY-NET ALLIANCE

Must also demonstrate:

• Aggregated demand
• Suitable business plan
• Community support
• State/Federal/Local Match
KEY-NET ALLIANCE

First Project --- “I-Tec-99”

- Along I-99 Corridor
- From State College to Altoona
- $810,000 project
Conclusion

Watch the WEB site: www.keycomm.state.pa.us

Questions: during discussion...
or email to... ngiordano@state.pa.us
           mel.collins@adelphia.com