



## Science, Technology and Telecommunications Committee

July 7, 2015

*Presenter:*

**Robert Gorrell, Executive Director, Public School Facilities Authority**

Partnering with New Mexico's communities to provide quality, sustainable school facilities for our students and educators.

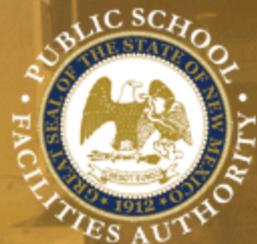


# Program Necessity

## Broadband Deficiencies Correction Program (BDCP)

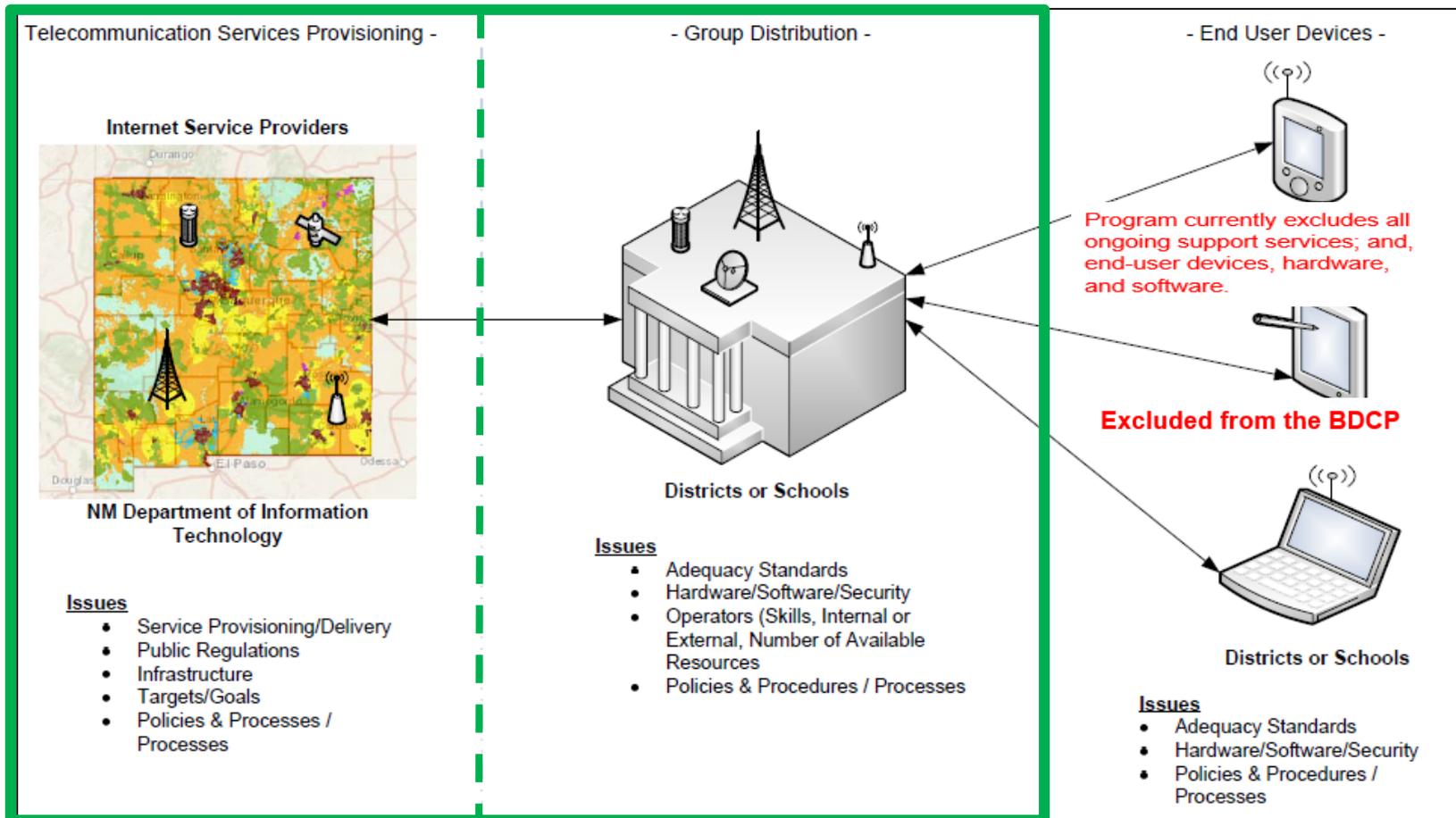
- SB159 was signed into law with an emergency clause in March 2014 because there is a critical need, especially in rural areas, for adequate broadband within public schools across the State of New Mexico
- Many other States are ahead of New Mexico in their efforts to upgrade broadband (Arkansas, Nebraska, Utah, Idaho, Mississippi, Pennsylvania...)

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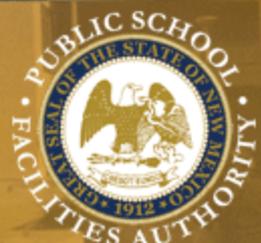


# High-Level View

As displayed below, broadband originates from Internet Service Providers (ISP), is distributed to schools and then reaches students via end-user devices. The green area is covered by the BDCP.



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# Program Overview

## Broadband Deficiencies Correction Program (BDCP)

- Speed standard is between 100 kbps (kilobits per second) per student and staff and 1,000 kbps per student and staff (matching SEDTA and FCC recommendations)

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# Program Necessity

## Broadband Deficiencies Correction Program (BDCCP)

- Reliable broadband is essential for 21<sup>st</sup> century education
  - Online Testing with expected increased video content (PARCC or other)
  - Distance Learning such as the ABQ Public Schools' (APS) virtual school called **eCADEMY**
  - Resources for Instruction
  - Homework
  - Bring Your Own Device/Technology (BYOD/BYOT)
  - One to One (1:1) Student to Device ratio
  - Cloud Hosting
  - Teacher professional development, etc.

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# Program Funding

## Broadband Deficiencies Correction Program (BDCCP)

- The PSCOC may approve up to \$10 Million per year for this program, totaling \$50 Million over the course of five years (FY15 – FY 19)
- E-rate may cover up to 90% of eligible expenses for NM schools
- Additional E-rate discounts are given when States:
  - Match funds for high-speed broadband construction (up to 10%)
  - Use the consortium approach, and higher priority is given to these applications

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# Program Overview

## Broadband Deficiencies Correction Program (BDCP)

- Utilize and Manage Vendor Expertise
  - Hewlett Packard (HP)
    - Information technology professionals with experience working on similar broadband initiatives
  - CTC Technology and Energy (CTC)
    - Statewide distribution modeling and e-Rate
  - UNM's Earth, Data Analysis Center (EDAC)
    - State repository for broadband mapping
- Utilize Workgroups to develop vision, program standards, guidelines, and procedures
  - HP Technical Representatives, School/District IT Professionals, DoIT's "A Team," PED, and so on...

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# Program Overview

## Broadband Deficiencies Correction Program (BDCP)

- Ongoing collaboration with other State agencies or groups with similar initiatives
  - NM Department of Information Technology (DoIT) – Advisor
  - NM Public Education Department (PED) – Advisor
  - NM Public Regulation Commission (PRC) – Task Force
  - NM Exchange Carrier Group and other NM Service Providers
  - Higher Education – UNM, NMSU, NM Tech, Community Colleges, etc.
  - RediNet – A successful public/private model
- There is a shared sense of urgency and support for broadband in public schools among all participants

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# Program Phases

## Broadband Deficiencies Correction Program (BDCP)

- The BDCP's two phases:
  - Phase 1 – Program development and data collection phase for approximately 900 public schools statewide, including data centers
  - Phase 2 (early 2016) – Corrections phase

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# Phase 1 Status – On Schedule! 😊

## Broadband Deficiencies Correction Program (BDCP)

### Phase 1 expectations:

- Phase 1A (**Complete**): Development of methodology for school surveys (HP) and related web interface and completion of Estancia pilot between December 2014 and January 2015
- Phase 1B (**Complete**): Expanded pilot to 35 schools, including the APS data center, to verify methodology in February 2015
- Phase 1C (**Underway**): Statewide survey between May 2015 and October 2015
- Phase 1D (**Underway**): Data Compilation & Analysis and Proficiency Profile Map between February 2015 and October 2015

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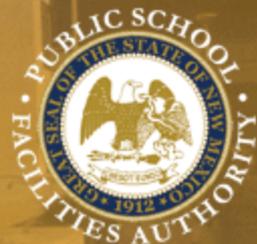


# Program Phases

## Broadband Deficiencies Correction Program (BDCCP)

- Phase 1 deliverables are due in October 2015:
  - Palette of solution-based options that advise:
    - Capital infrastructure investment
    - Ongoing operational costs
- The goal is to determine the most cost-effective solution to deliver scalable, reliable, and sustainable broadband service to schools
- We have to stay on schedule; we don't want to miss out on an entire year of E-rate funding

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# Conclusion

## Broadband Deficiencies Correction Program (BDCP)

- The BDCP is on schedule and momentum is strong
- Clear direction from leadership that all participants collaborate and eliminate potential duplication remains essential to efficient solutions
- Shortly following PSFA's release of options in October 2015, leadership's timely selection of a high-level plan will allow greater access to out-of-state funding
- The PSFA appreciates your ongoing support

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# BDCP

BROADBAND DEFICIENCIES  
CORRECTION PROGRAM

## Questions or Comments?

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### Public School Facilities Authority (PSFA)

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