

Indiana State Library December 18, 2014

Presented by Aleck Johnson, EdTech Strategies, LLC

#### Slide 2

#### **Ground Rules**

- Information subject to change
- New Order released last week
- ISL will continue to provide updates as they become available
- Questions at the end of the session
  - Please note slide #s if possible



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## 12/11/14 "E-rate 2.1" Order

- Text of order not yet available
- Information is based entirely on public statements
  - Details will be important
  - Check back with ISL for confirmation once Order text is available

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## E-rate 2.1: Budget Changes

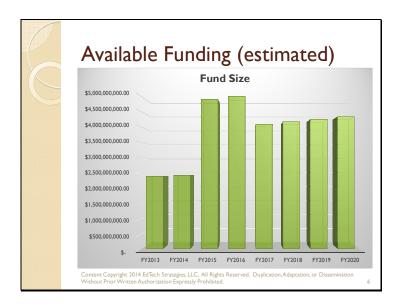
- 2 year pilot on C2 extended to a 5 year pilot
  - Could well end up being permanent
- Expanded funding available
  - Permanent increase of \$1.5B/yr. to the E-rate program
  - Appears to be in addition to the temporary infusion of \$1B/yr. for FY2015 and FY2016
  - Approx. \$4.9B in FY2015 and FY2016, \$3.9B afterwards

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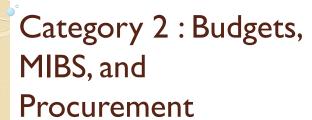
#### E-rate 2.1: Rural Definitions

- Rural definitions updated:
  - Census areas with under 25,000 people to be rural
  - Census areas with 25,000 or more people are

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## Fiber Eligibility

- 12/11/14 Order contains language equalizing treatment between dark and lit fiber
- Order text not yet available so details are somewhat lacking
- E-rate will add up to 10% additional funding if state funds 10% of the cost of fiber construction
  - Entirely new so unclear what will happen in IN, but worth watching/considering
- Some changes in 2015, some in 2016 updates as the order becomes available



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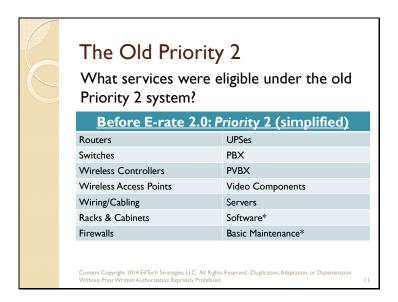
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## The New Category 2

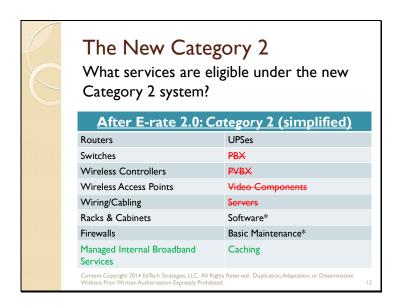
- Priority 2 (P2) renamed Category 2 (C2)
- C2 will be funded after all Category I (C1) is funded
- C2 funding will start with the highest discount entities and work its way down (90% first, then 80%, etc.)
- Unlikely all C2 will be funded but significantly increased available funding should mean funding will reach more entities
- Eligible services refocused on data transmission
- NIFs are not eligible for C2
- All C2 services now linked to entity-specific budgets (more on this later!)

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## Category 2: Eliminated Services

- What are the services that were eliminated?
  - Elimination of voice-related devices, such as PBXs
  - Elimination of video-related devices, such as PVBXs and Video Components
  - Elimination of servers (except for caching)

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## Category 2:

#### **New Services**

- What are the new services that are eligible?
  - Caching little detail released, but caching servers and devices appear to be eligible
  - Managed Internal Broadband Services
    - FCC invented term and category
    - Grows out of the "managed wi-fi" services offered by many companies
    - Extends to all network components

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## **Understanding Category 2 Budgets**

- New budget system applies only to Category 2 services (Internal Connections and Basic Maintenance of Internal Connections)
- Replaces the old 2 in 5 rule (at least for the next 5 years)
- Five year budget based on the size of the library outlet (for schools, based on enrollment)
  - \$2.30/sq. ft. over five years pre-discount
  - Minimum budget for a library is \$9,200
    - Library outlets of 4,000 sq. ft. or less use the minimum
  - Some urban libraries will have a \$5.00/sq. ft. over five years pre-discount budget (details TBD, appears to affect libraries serving over 250,000 people only)

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## **Understanding Category 2 Budgets**

- Budgets cover a rolling five year period and are recalculated annually based on enrollment and square footage and can go up or down
- Funding commitments in FY2015 count against the budget for the next four years
- Products or services ordered in excess of budget will not be funded
- Initially presented as a two year pilot program, extended for 5 years by 12/11/14 Order

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## **Understanding Category 2 Budgets**

- Category 2 budgets are calculated on an outlet or branch basis rather than a system basis
- Non-instructional facilities (NIFs) including administrative buildings – do not get Category 2 budgets
  - If equipment shared by library branches is located in a NIF, the branches can allocate some of their funding toward the NIF for that equipment
  - Services for the NIF itself should be allocated out as ineligible
- Library systems cannot average or join budgets across multiple outlets, and unused funds cannot be rolled from one outlet to another

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## Calculating Budgets

- Library budgets are calculated by multiplying the square footage of the library (inside the walls) by \$2.30 (or \$5.00 for some large urban libraries)
  - Minimum budget is \$9,200
  - Square footage available from IMLS at <a href="http://www.imls.gov/research/public\_libraries\_in-the-united-states-survey.aspx">http://www.imls.gov/research/public\_libraries\_in-the-united-states-survey.aspx</a>
    - This data may be incorrect!
    - Can use other sources, just document it for your files

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## Calculating Budgets

- Example 1: Library A is a 6,000 sq. ft. library
  - C2 budget is 6,000 x \$2.30 = \$13,800 over five years
- Example 2: Library B is a 2,500 sq. ft. library
  - C2 budget would be 2,500 x \$2.30 = \$5,750.
    HOWEVER, this is under the minimum, so budget is \$9,200.
- Remember that these budgets are prediscount

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## **Documenting Budgets**

- USAC expected to have a tool available to track budgets starting in FY2016
- Item 21 attachment will allow allocation of budget between multiple entities
  - Straight line (all entities share equally)
  - Proportional (based on sq. footage)
  - Specific (each entity has a specified share)
- For now, be sure to keep your own records of how (and why) budgets are allocated
- When budgets are allocated between entities, allocation must be based on tangible criteria leading to a reasonable result

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## **Budget Purchasing Example**

- Library A (pre-discount budget \$13,800) qualifies for a 70% discount and wants to purchase \$10,000 in wireless access points in FY2015
  - Once approved, Library A has \$3,800 remaining for the next four funding years
- Library A receives \$7,000 in E-rate discounts/reimbursements on the purchase of the APs (\$10,000 x 70%) and has an "out of pocket" expense of \$3,000
- \$10,000 is restored to Library A's C2 prediscount budget in FY2020

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## **Budget Purchasing Example**

- Library B (pre-discount budget \$9,200) qualifies for a 70% discount and wants to purchase \$10,000 in wireless access points.
  - Once approved, Library B has \$0 remaining for the next four funding years
  - Library B receives \$6,440 in E-rate discounts/reimbursements on the purchase of the APs (\$9,200 x 70%) and has an "out of pocket" expense of \$3,560
  - \$9,200 is restored to Library B's C2 pre-discount budget in FY2020

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#### **Budgeting Shared Services** Library A (6,000 sq. feet) and Library B (2,500 sq. feet) apply to share a \$1,000 wireless controller Straight Line Proportional (Sq. Ft.) A = \$500 $A = 6,000/8,500 \times $1,000 = $705.88$ A=80%=\$800 B = \$500 $B = 2,500/8,500 \times $1,000 = $194.12$ B=20%=\$200 TOTAL: \$1,000 TOTAL: \$1,000 TOTAL: \$1,000

FCC has given applicants the flexibility to choose the method that works best the specific applicant. Must be able to justify the method selected!

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## **Budgets in Future Years**

- Budgets are five year rolling budgets
  - Funds are "restored" five years after the funding year in question
  - Funds are removed from the budget when they are committed (not when they are spent!)
  - Funds can be returned to the budget using the Form 500 to reduce or cancel and funding commitment



 "A service is eligible for support as managed internal broadband services" if provided by a third party for the operation, management, and/or monitoring of the eligible components of a school or library local area network (LAN) and wireless LAN

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# Managed Internal Broadband Services

- MIBS is subject to the budget constraints of all Category 2 services
- MIBS primarily focusing today on managed wi-fi
  - Expect lots of vendor interest on managed wi-fi today and managed network components in the near future
  - Pricing appears to be remarkably close to the budgets proposed
    - Some exceptions when procured in volume

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## Category 2:

#### Managed Wi-Fi vs. Traditional Wi-Fi

- Traditional Wi-Fi
  - Library owns and manages the access points on the librarý network
  - Management typically done through a wireless controller
- Managed Wi-Fi
  - Two major purchasing models: either library owns the access points and pays for management separately or service provider owns the APs and bundles the cost of APs and management
  - Management done through a virtual controller located offsite
- In both cases Wi-Fi typically shares the library's Internet bandwidth

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## Category 2:

#### Managed Wi-Fi vs. Traditional Wi-Fi

- Traditional Wi-Fi
- One time capital expense
- Sometimes an ongoing expense for warranties/updates
- Managed Wi-Fi
  - Possible one time expense
  - Sometimes an ongoing expense for warranties/updates
  - Ongoing management expenses

## Major Vendors of MIBS and Traditional Wi-Fi

- Cisco
  - Meraki
- Aruba
- Aerohive
- Ruckus
- Meru
  - ...and lots (and lots) of others

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# Category 2: Managed Wi-Fi Procurement Guidance

- Prior to procurement, conduct a site survey if possible
  - Allows you much better information regarding what your Wi-Fi needs will be
- Can issue an RFP for greater control
  - Useful if there are existing infrastructure concerns
  - Also useful if needs are not easily described in Form 470
  - RFPs generally strongly recommended

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#### Category 2: Managed Wi-Fi Procurement Guidance

- RFPs may be required
- IC 5-22-7 requires the purchasing agent to bid public purchases unless another purchasing method is required or authorized, as follows:
  - IC 5-22-8-3 If the purchase is expected to be at least \$50,000 but less than \$150,000, the purchasing agent may invite quotes from at least three persons known to deal in the lines or classes of supplies to be purchased.
  - IC 5-22-8-2 If the purchase is expected to be less than \$50,000, the purchasing agent may make a purchase under the small purchases policies established or rules adopted by the library.
  - IC 5-22-9-1 The purchasing agent may award a contract using the request for proposal process in accordance with the purchasing policies of the library. No statutory dollar threshold is associated with this method.
- Each of these methods have certain statutory procedures which must be followed. In addition, the library should have its own purchasing policy which may supplement IC 5-22 and not be inconsistent with IC 5-22
- Consult Karen and/or your attorney for more information

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## Category 2: Managed Wi-Fi Procurement Guidance

- RFP Benefits
  - Greater control of process
  - Greater specificity on services sought
  - Greater control over conditions/bid response formats
  - Easier to control flow of information to vendors
- RFP Drawbacks
  - Requires planning
    - Board approval of RFP
  - Additional time (e.g. Q&A)
  - Lots of extra work if little or no competition

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#### Category 2: Managed Wi-Fi Procurement Guidance

• FCC 14-99: "We encourage districts to request bids in technologically neutral ways and compare the cost-effectiveness of bids for self-provisioned networks with those for managed Wi-Fi contracts. We also encourage schools and libraries considering managed Wi-Fi to evaluate the value of joining a consortium of schools and libraries to increase their buying power and drive down costs."

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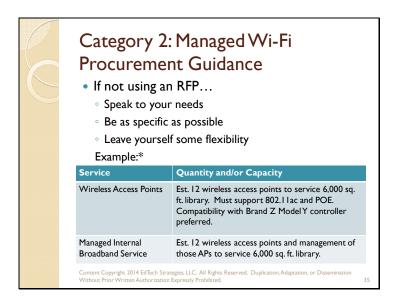
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# E-rate Requirements for Internal Connections and MIBS

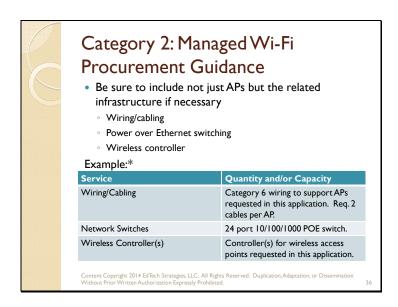
- Applicants can/should provide as much information as possible regarding requirements
  - Services sought
  - Infrastructure upgrades
- Pre-work beneficial (site survey, etc.)
- Seek bids on both managed and unmanaged
  - PIA questions likely to reflect need to evaluate both
  - Compare apples to apples to get most cost effective service

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#### **Bid Evaluation Hints**

- Must use a bid evaluation matrix
- Price of eligible goods and services must be the most heavily weighted factor
  - Other factors can include (and are not limited to)
    - · Compatibility with existing infrastructure
  - Price of ineligible goods and services (training, power, etc.)
  - Reputation of vendor
  - Use bid evaluation criteria to determine the most cost effective service for meeting your needs
- Not required to purchase low bid
- Document, document, document

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## State Master Contracts and Preferred Master Contracts

- There are no current state master contracts covering MIBS so not available for FY2015
- FCC working on developing "preferred master contracts" for FY2016
- These master contracts will likely require a mini-bid evaluation process
- You have no control over a master contract and potential violations, so you may want to file your own 470 just to be safe

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### E-Rate Update and Category 2 Webinar on December 18, 2014

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