

2013 ADE Bandwidth Survey

October 14 2013

Rev. 10/24/13

Status Update

The bandwidth data in this presentation has been self-reported by school districts and is updated to reflect the most recent data entered by school districts as of 10/14/2013. For more information about this survey data, please contact Cody Decker, ADE Division Leader-Research & Technology at cody.decker@arkansas.gov.

Submission Status

254 Submissions

Academics Plus	Calico Rock	Drew Central	Hamburg
Alma	Camden Fairview	Dumas	Hampton
Alpena	Carlisle	Earle	Harmony Grove Ouachita
Ark School For The Blind	Cave City	East End	Harmony Grove Saline
Ark School For The Deaf	Cedar Ridge	East Poinsett Co	Harrisburg
Arkadelphia	Cedarville	El Dorado	Harrison
Arkansas Virtual Academy	Centerpoint	Elkins	Hartford
Armored	Charleston	Emerson-Taylor	Hazen
Ashdown	Clarendon	England	Heber Springs
Atkins	Clarksville	Estem High School	Hector
Augusta	Cleveland County	Eureka Springs	Helena/ West Helena
Bald Knob	Clinton	Farmington	Hermitage
Barton-Lexa	Concord	Fayetteville	Highland
Batesville	Conway	Flippin	Hillcrest
Bauxite	Corning	Fordyce	Hope
Bay	Cossatot River	Foreman	Horatio
Bearden	Cotter	Forrest City	Hot Springs
Beebe	County Line	Fort Smith	Hoxie
Benton	Covenant Keepers Charter	Fouke	Hughes
Benton County School Of Arts	School	Fountain Lake	Huntsville
Bentonville	Cross County	Genoa Central	Imboden Charter
Bergman	Crossett	Gentry	Izard Co Cons
Berryville	Cutter-Morning Star	Glen Rose	Jackson Co
Bismarck	Danville	Gosnell	Jacksonville Lighthouse Charter
Blevins	Dardanelle	Gravette	Jasper
Blytheville	Decatur	Green Forest	Jessieville
Booneville	Deer/Mt Judea	Greenbrier	Jonesboro
Bradford	Dequeen	Greene Co Tech	Junction City
Brinkley	Dermott	Greenland	Kipp Delta Public Schools
Brookland	Des Arc	Greenwood	Kirby
Bryant	Dewitt	Gurdon	Lafayette County
Buffalo Is Central	Dierks	Guy-Perkins	Lake Hamilton
Cabot	Dollarway	Haas Hall Academy	Lakeside Chicot
Caddo Hills	Dover	Hackett	Lakeside Garland

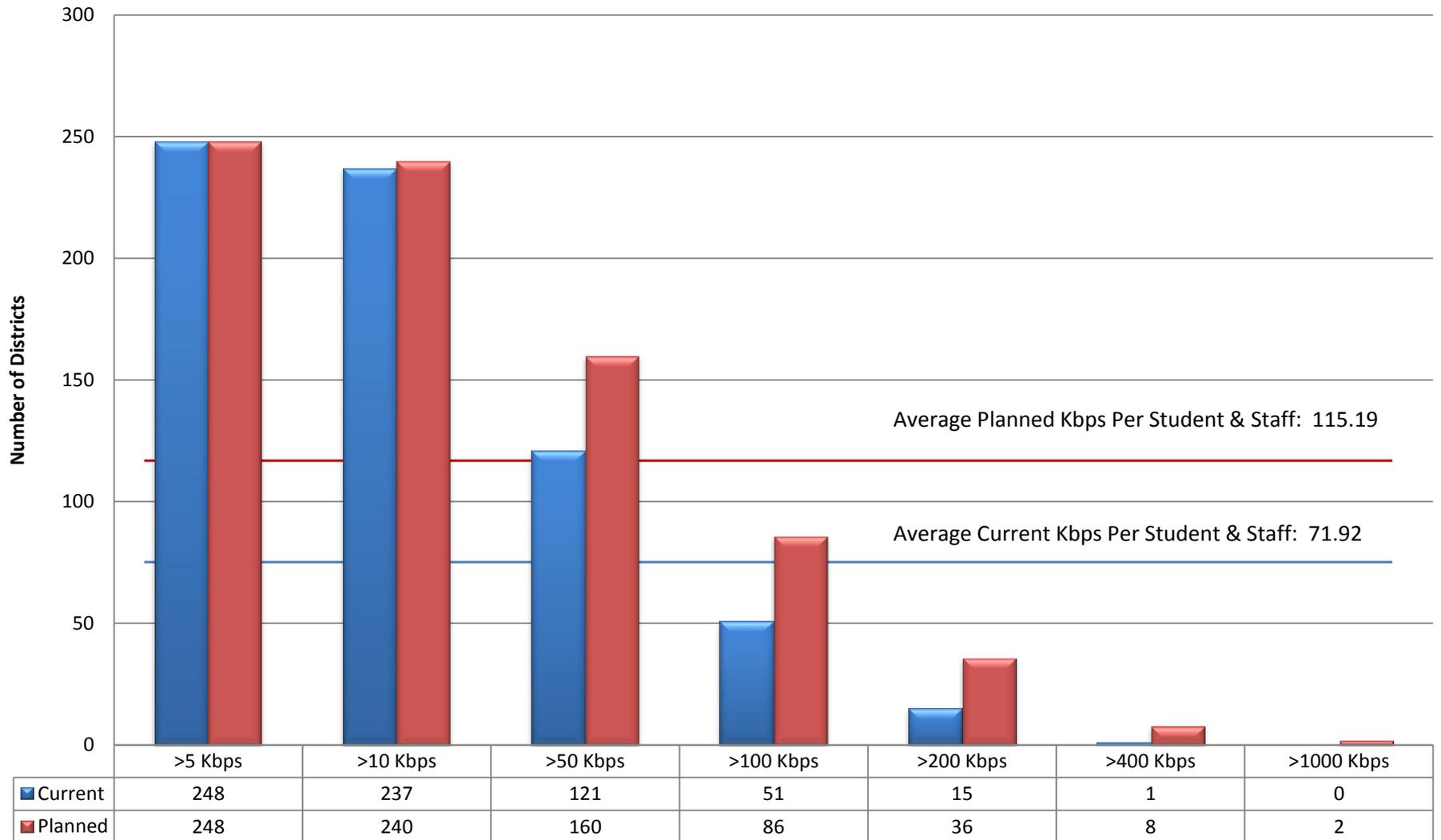
Submission Status

Lamar	Mountain Pine	Pulaski Co Spec	Van Buren
Lavaca	Mountain View	Quitman	Vilonia
Lawrence County	Mountainburg	Rector	Viola
Lead Hill	Mt Vernon/Enola	Riverside	Waldron
Lee County	Mulberry	Riverview	Warren
Lincoln	N Little Rock	Rogers	Watson Chapel
Lisa Academy	Nashville	Rose Bud	West Fork
Lisa Academy North	Nemo Vista	Russellville	West Memphis
Little Rock	Nettleton	Salem	West Side Cleburne
Little Rock Preparatory	Nevada	Scranton	Western Yell Co
Academy	Newport	Searcy	Westside Cons Craighead
Lonoke	Norfolk	Searcy County	Westside Johnson
Magazine	Norphlet	Sheridan	White Co Central
Magnet Cove	Omaha	Shirley	White Hall
Magnolia	Osceola	Siatech Little Rock Charter	Wonderview
Malvern	Ouachita	Siloam Springs	Woodlawn
Mammoth Spring	Ouachita River	Sloan-Hendrix	Wynne
Manila	Ozark	Smackover	Yellville-Summit
Mansfield	Ozark Mountain	So Conway Co	
Marion	Palestine-Wheatley	So Miss County	
Marked Tree	Pangburn	South Pike County	
Marmaduke	Paragould	South Side Vanburen	
Marvell-Elaine	Paris	Southside Independence	
Mayflower	Parkers Chapel	Spring Hill	
Maynard	Pea Ridge	Springdale	
Mccrory	Perryville	Star City	
Mcgehee	Piggott	Stephens	
Melbourne	Pine Bluff	Strong-Huttig	
Mena	Pine Bluff Lighthouse Academy	Stuttgart	
Midland	Pocahontas	Texarkana	
Mineral Springs	Pottsville	Trumann	
Monticello	Poyen	Two Rivers	
Mount Ida	Prairie Grove	Valley Springs	
Mountain Home	Prescott	Valley View	

Survey Results

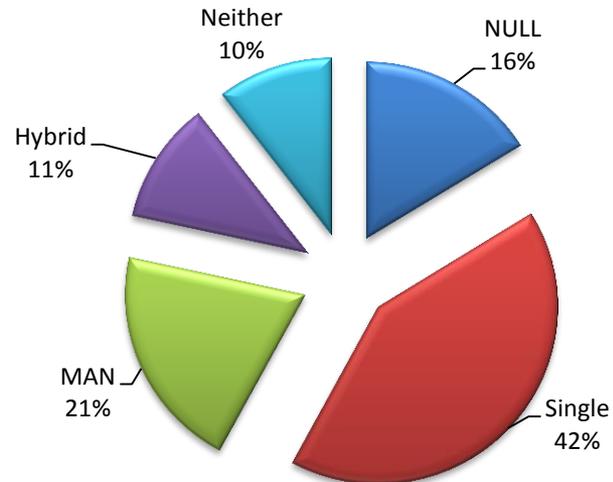
As of October 14, 2013

Current Vs. Planned Bandwidth Kbps Per Student & Staff by District



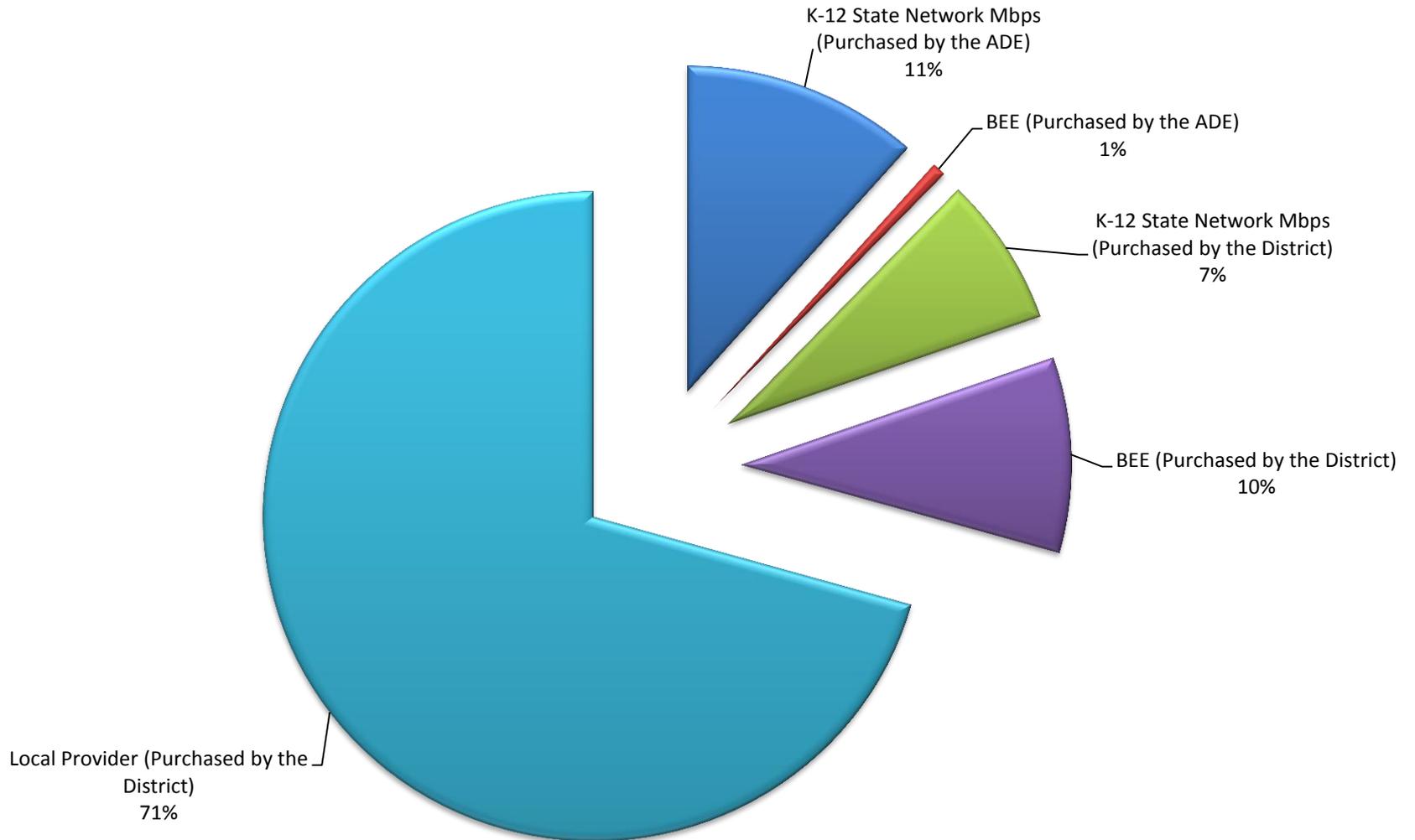
Network Type

Number of Demarcs: 556



- **SINGLE:** Single building or multiple buildings served by 1 demarc; 1 demarc per school campus
- **MAN:** Municipal Area Network
- **Hybrid:** Combination of Single and MAN
- *No Data Reported: 90 Demarcs*

Source of Bandwidth

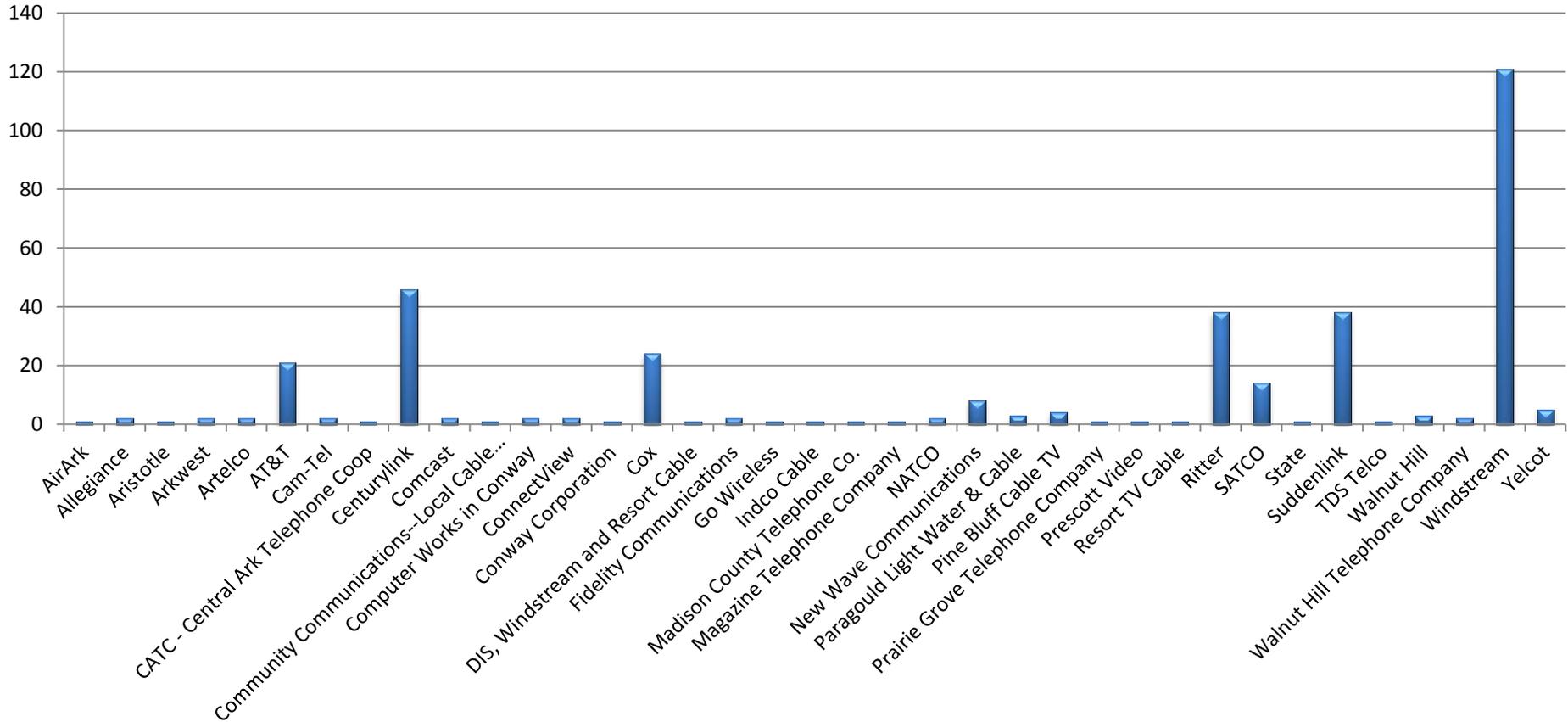


Current Bandwidth Statistics

As of October 14, 2013

Current Local Bandwidth Providers

367 Demarcs Reporting



Current Bandwidth

Averaged Across Districts

Mean: 113.00 Mbps

Median: 57.54 Mbps

Mode: 110.00 Mbps

Minimum: 1.50 Mbps

Maximum: 1703.51 Mbps

Standard Deviation: 180.89

Current Kbps per Student & Staff

Averaged Across Districts

Mean: 71.92 Kbps

Median: 47.10 Kbps

Mode: N/A

Minimum: 2.78

Maximum: 865.82 Kbps

Standard Deviation: 81.54 Kbps

Cost of **Current** Local Bandwidth

Averaged Across 278 Demarcs*

Mean: \$34.15 per Mb

Median: \$16.67 per Mb

Minimum: \$1.20 per Mb

Maximum: \$300.00 per Mb

Standard Deviation: \$43.25 per Mb

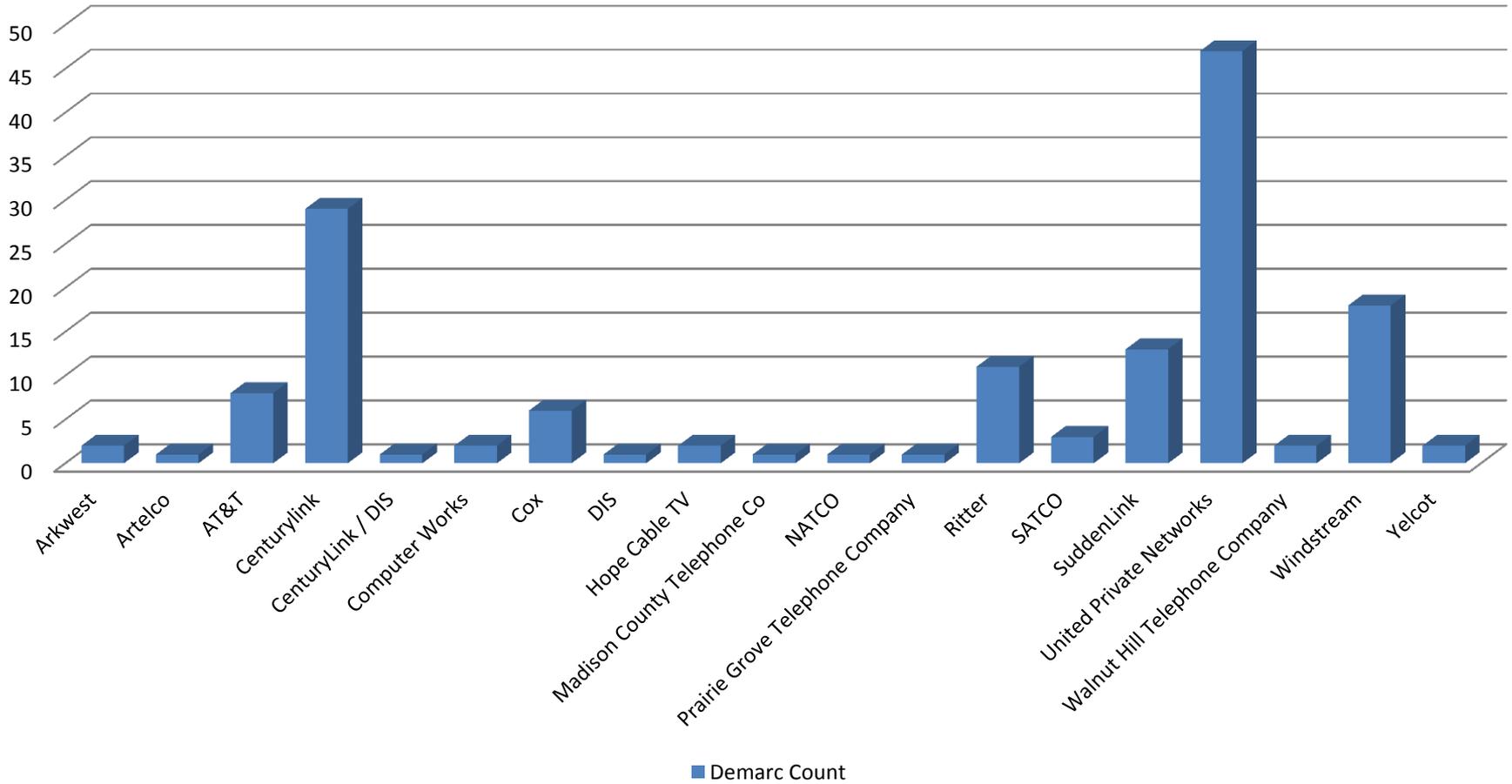
*Excludes LRSD's 48 Reported Demarcs

Planned Additions in Bandwidth and Providers

As of October 14, 2013

Planned Local Bandwidth Providers

151 Demarcs Reporting



Planned Bandwidth

Averaged Across Districts (107 Demarcs Reporting)*

Mean: 154.83 Mbps

Median: 60 Mbps

Mode: 100.00 Mbps

Minimum: 4 Mbps

Maximum: 2,000 Mbps

Standard Deviation: 323.13 Mbps

**Excludes LRSD's – 48GB Planned Purchase*

Planned Kbps per Student & Staff

Averaged Across Districts

Mean: 115.19 Kbps

Median: 66.50 Kbps

Minimum: 2.78 Kbps

Maximum: 1,855.45 Kbps

Standard Deviation: 178.04 Kbps

Cost of **Planned** Local Bandwidth

Averaged Across Demarcs (78 Reporting)

Mean: \$30.85 per Mb

Median: \$21.10 per Mb

Minimum: \$1.92 Per Mb

Maximum: \$162.69 per Mb

Standard Deviation: \$31.94 per Mb

*Excludes LRSD's 48 Reported Demarcs

Top Districts for Least and Most Bandwidth

TOP 20 Districts with **Least** Current + Planned Bandwidth

District Name	Number of Students & Staff	Current Bandwidth in Mbps	Planned Bandwidth In Mbps	Current + Planned Bandwidth in Mbps	Current Kbps per Student & Staff	Current + Planned Kbps per Student & Staff
LISA ACADEMY NORTH	565	1.54	0.00	1.54	2.78	2.78
BAUXITE SCHOOL DISTRICT	1182	4.50	0.00	4.50	3.90	3.90
BRINKLEY SCHOOL DISTRICT	688	3.00	0.00	3.00	4.47	4.47
BLEVINS SCHOOL DISTRICT	589	3.00	0.00	3.00	5.22	5.22
POYEN SCHOOL DISTRICT	635	3.38	0.00	3.38	5.46	5.46
HERMITAGE SCHOOL DISTRICT	517	3.00	0.00	3.00	5.94	5.94
EARLE SCHOOL DISTRICT	754	4.54	0.00	4.54	6.16	6.16
NEVADA SCHOOL DISTRICT	431	3.00	0.00	3.00	7.13	7.13
CUTTER-MORNING STAR SCH. DIST.	716	6.00	0.00	6.00	8.58	8.58
HELENA/ W.HELENA SCHOOL DIST.	879	7.61	0.00	7.61	8.86	8.86
WONDERVIEW SCHOOL DISTRICT	519	4.50	0.00	4.50	8.88	8.88
NORFORK SCHOOL DISTRICT	535	6.00	0.00	6.00	11.48	11.48
CEDAR RIDGE SCHOOL DISTRICT	975	11.00	0.00	11.00	11.55	11.55
MOUNTAIN HOME SCHOOL DISTRICT	4418	50.00	0.00	50.00	11.59	11.59
COVENANTKEEPERS CHARTER SCHOOL	265	3.00	0.00	3.00	11.59	11.59
CONWAY SCHOOL DISTRICT	10646	125.00	0.00	125.00	12.02	12.02
BENTON COUNTY SCHOOL OF ARTS	846	10.00	0.00	10.00	12.10	12.10
WHITE HALL SCHOOL DISTRICT	3219	40.00	0.00	40.00	12.72	12.72
SPRINGDALE SCHOOL DISTRICT	23176	300.00	0.00	300.00	13.26	13.26
SILOAM SPRINGS SCHOOL DISTRICT	6860	92.00	0.00	92.00	13.73	13.73

TOP 20 Districts with **Most Current + Planned** Bandwidth

District Name	Number of Students & Staff	Current Bandwidth in Mbps	Planned Bandwidth In Mbps	Current + Planned Bandwidth in Mbps	Current Kbps per Student & Staff	Current + Planned Kbps per Student & Staff
LITTLE ROCK SCHOOL DISTRICT	26926	661.00	48128.00	48789.00	25.14	1855.45
COTTER SCHOOL DISTRICT	756	104.00	1000.00	1104.00	140.87	1495.37
ARK. SCHOOL FOR THE BLIND	123	104.00	0.00	104.00	865.82	865.82
OZARK MOUNTAIN SCHOOL DISTRICT	853	163.00	300.00	463.00	195.68	555.82
PARIS SCHOOL DISTRICT	383	106.00	100.00	206.00	283.40	550.77
SMACKOVER SCHOOL DISTRICT	919	204.50	250.00	454.50	227.87	506.43
FOREMAN SCHOOL DISTRICT	646	203.00	110.00	313.00	321.78	496.15
PINE BLUFF LIGHTHOUSE ACADEMY	488	27.04	200.00	227.04	56.73	476.40
RIVERSIDE SCHOOL DISTRICT	519	202.00	0.00	202.00	398.55	398.55
JACKSONVILLE LIGHTHOUSE CHARTE	688	57.54	200.00	257.54	85.63	383.31
KIPP DELTA PUBLIC SCHOOLS	1343	150.00	300.00	450.00	114.37	343.11
RIVERVIEW SCHOOL DISTRICT	1569	517.00	0.00	517.00	337.42	337.42
ARK. SCHOOL FOR THE DEAF	164	53.00	0.00	53.00	330.93	330.93
GREENWOOD SCHOOL DISTRICT	4016	170.00	1024.00	1194.00	43.35	304.45
HIGHLAND SCHOOL DISTRICT	1732	110.00	400.00	510.00	65.03	301.52
BUFFALO IS. CENTRAL SCH. DIST.	945	209.00	50.00	259.00	226.47	280.65
FOUKE SCHOOL DISTRICT	802	216.30	0.00	216.30	276.17	276.17
DUMAS SCHOOL DISTRICT	1702	215.99	240.00	455.99	129.95	274.35
DECATUR SCHOOL DISTRICT	605	70.00	90.00	160.00	118.48	270.81
BRADFORD SCHOOL DISTRICT	545	36.00	100.00	136.00	67.64	255.53