BadgerNet Converged Network (BCN) Contract Extension

The Department of Administration (DOA) has negotiated and signed a 5-year contract extension with AT&T to extend the BadgerNet Converged Network (BCN) contract to November 1, 2016.

This extension includes rate reductions to bandwidth increments in BCN and changes to the service names.

Bandwidth Increments (new):

The bandwidth increments have changed due to the extension. There maybe sites that have a bandwidth today that may not be available under the extended contract. Those sites will need to change to one of the posted bandwidths. Bandwidth increments are found at end of this document.

DET is putting together spreadsheets for each agency/authorized user. For those sites that will need a change in bandwidth, they will be highlighted on the spreadsheet and suggested bandwidth will be noted**.** These will be out to customers by end of November 2011.

Rates and Billing (change):
New rates are retroactive to November 1st. ATT is in the process of updating their billing system.

There will no longer be a separate Madison Area rate. Madison Area rates will now match the BCN pricing sheet and ATT will invoice the agency directly for those rates.

GigaMadMan (State Agency Headquarters in Madison) rates need to be reviewed and information will be shared. GigaMadman is made up of either DOA/private fiber or BCN services. A separate rate table will be forth coming.

Special Construction Cost (new):
Under the extension construction costs for new fiber facilities may apply. Special construction cost for new fiber facilities is covered up to $35,000. ATT will bill for construction cost exceeding $35,000.

Service Descriptions (change):

BCN services names have changed to Basic WAN or Internet transport vs. Vendor/User managed WAN and Internet Transport. What previously was known as the Vendor managed video 1x3 room is now standard or High Definition managed video.

> **Basic Service** is the total bandwidth a site receives; one service, either WAN or Internet Transport; one port and one VLAN. Every BadgerNet site has Basic Service with either WAN or Internet Transport. Additional service may be added to basic service using either Fusion or Additional Port.
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> **Internet Transport** is a best effort data service that connects an end user site to an Internet service provider (ISP) at one of the four BadgerNet core locations. The basic service of Internet Transport or WAN service includes a specific amount of bandwidth. Enhanced services such as an additional port can be added if requested.
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> **WAN** is used primarily for data and non-latency sensitive applications. The basic service of WAN or Internet Transport service includes a specific amount of bandwidth. Enhanced services such as an additional port can be added if requested.
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> **Fusion** allows two (2) services, on separate VLANs on a single trunked port. The bandwidth of the port is shared between the two (2) services. Customers –provided traffic shaping is very import for Fusion configured service. Traffic shaping polices the bandwidth as traffic enters the BCN providing a smooth flow of data to the BCN and reducing packet loss.
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> **Additional Port** is the traditional BadgerNet method of adding services. The new service is given a port, a VPN and a set amount of bandwidth from the basic service. The service owns all of its bandwidth and does not share it with any other service, application or VPN. There can be multiple additional ports. The total bandwidth for the site is still defined by Basic Service.

Standard Definition Managed Video is a special case of additional port. Standard definition video includes 4 ports, 3 incoming sites and 1 outgoing. All ports are in the same VPN. The service also includes 3 standard definition codecs, access to the MCUs, the video scheduler and technical support from the Network Management Center (NMC). 1Mbps of bandwidth is placed with each port, for a total of 4Mbps.

High Definition Managed Video High definition includes 1 port, 1 high definition codec and 1 VPN. The service also includes access to high definition MCUs, the video scheduler and technical support from the NMC. 2Mbps of bandwidth is needed for high definition managed video. (Note: this service is not available yet.)

HPLL (High Priority, Low Latency) is an enhancement to the WAN service that is used to: (a) differentiate High Priority Traffic, such as video or VoIP; and (b) preserve end user QoS markings.

Both standard definition and high definition managed video services automatically include HPLL WAN. There is no charge for the HPLL WAN enhancement to the WAN service but HPLL WAN does need to complete a joint planning and approval process with DOA DET and AT&T.

HPLL WAN includes the port and VPN but preserves all IP TOS (Internet Protocol Type of Service), PP (IP Precedence) or DSCP (Differentiated Services Code Point) markings. The HPLL WAN service preserves all IPP and DSCP markings received on HPLL WAN ports but can only honor markings configured to fall within one of three different classes: real-time, critical data and best effort. Traffic that falls outside of these classes will receive less than best effort service.

Video Bridging Service is an add-on service to either WAN or HPLL. It is a per codec service. Video bridging provides access to the video MCUs so a user managed codec can connect to the Internet, connect to sites with different protocols, or host a video conference with three or more participants.

Critical site is any site identified by customer for the purpose of service repair. Critical sites shall have service repair coverage on a 24x7x365 basis. Once a dispatch is determined necessary by ATT or customer for a critical site, AT&T will dispatch and have required personnel on-site within 2 hours.

Move, Add, Change Orders (same):
We anticipate that there will be a high volume of upgrades taking place in the next 2-3 months. Delays may be encountered along the way. DET will make every effort to ensure orders are completed within the posted time frames.

- New Installation of WAN or Internet Service with Existing Facilities - 45 BUSINESS DAYS.
- New Installation of Video Service with Existing Facilities - 60 BUSINESS DAYS.
- New Installation of a combination of any service, WAN or Internet, along with Video with Existing Facilities 60 BUSINESS DAYS
- New Installation of Service (Internet, Video, or WAN) without Exist Facilities will be determined by Local Telco Provider, and may take up to 80 BUSINESS DAYS to get installed
- Change or upgrade to existing service is 45 BUSINESS DAYS if dispatch or network is required, 10 BUSINESS DAYS if dispatch is not-required
- Disconnect of service is 5 BUSINESS DAYS

Continue to submit your orders through the Service Request process or the BCN mailbox. However you have submitted orders in the past; continue to submit the orders in the future the same way.

Further questions may be directed to the BCN mailbox WIBadgernet@wisconsin.gov.

BCN Pricing for State Agency/Authorized Users

Effective November 1, 2011

SERVICE DESCRIPTION	MONTHLY RECURRING CHARGE
Basic WAN or Internet Transport - 256 Kbps	$ 326
Basic WAN or Internet Transport - 384 Kbps and 512 Kbps	$ 376
Basic WAN or Internet Transport - 768 Kbps	$ 452
Basic WAN or Internet Transport - 1.5 Mbps	$ 502
Basic WAN or Internet Transport - 3 Mbps	$ 904
Basic WAN or Internet Transport - 5 Mbps	$ 1,206
Basic WAN or Internet Transport - 10 Mbps	$ 1,746
Basic WAN or Internet Transport - 15 Mbps	$ 1,998
Basic WAN or Internet Transport - 20 Mbps	$ 2,262
Basic WAN or Internet Transport - 30 Mbps	$ 2,328
Basic WAN or Internet Transport - 40 Mbps	$ 2,430
Basic WAN or Internet Transport - 50 Mbps	$ 2,532
Basic WAN or Internet Transport - 60 Mbps	$ 2,566
Basic WAN or Internet Transport - 70 Mbps	$ 2,601
Basic WAN or Internet Transport - 80 Mbps	$ 2,636
Basic WAN or Internet Transport - 90 Mbps	$ 2,671
Basic WAN or Internet Transport - 100 Mbps	$ 2,706
Basic WAN or Internet Transport - 200 Mbps	$ 3,732
Basic WAN or Internet Transport - 300 Mbps	$ 4,812
Basic WAN or Internet Transport - 400 Mbps	$ 5,772
Basic WAN or Internet Transport - 500 Mbps	$ 6,732
Basic WAN or Internet Transport - 1 Gbps	$ 11,652
Madison Area Locations 1 Gbps - Rate is for service provisioned by ATT to buildings within the Madison exchange	$ 5,760
Special Construction costs for new fiber facilities are covered up to $35,000. AT&T will bill for construction costs exceeding $35,000.	
Fusion - 2 or more services on separate VLAN on a single trunked port	$ 50
Additional Port on the Telco Router	$ 20
Critical Site - dispatch and required vendor on-site within 2 hours	$ 25
Video Bridging - provides access to the video MCU	$ 30
Standard Definition Managed Video (4mbps of Bandwidth) **	$ 720
High Definition Managed Video (2mbps of Bandwidth)**	$ 720
Grandfathered Services:	
Standard Definition 1x1 Managed Video	$ 625
User Managed WAN or Internet Transport - 256K	$ 340
User Managed WAN or Internet Transport - 384K and 512K	$ 376
User Managed WAN or Internet Transport - 768K	$ 457
User Managed WAN or Internet Transport - 1.0 and 1.5Mbps	$ 512
** Rate Based on total number of managed Video subscribers. Rate may be adjusted higher if the total number of Video subscribers fall below 243	