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## Virginia Department of Conservation & Recreation

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### REQUEST FOR INFORMATION

#### SOLUTIONS FOR VIRGINIA STATE PARKS TELECOMMUNICATIONS CONNECTIVITY OPPORTUNITIES

ISSUE DATE: September 1, 2016

Requests for clarification or additional information related to this opportunity should be directed to:

**[Telecommunications@dcr.virginia.gov](mailto:Telecommunications@dcr.virginia.gov)**

RFI Closing Date: November 1, 2016 at 5:00 PM ET

Project Briefing Meeting Date: October 4, 2016 at 1:00 PM ET

Questions Regarding RFI Due: October 26, 2016 at 5:00 PM ET

Project Briefing Location: Go To Meeting Webinar

Please E-mail [Telecommunications@dcr.virginia.gov](mailto:Telecommunications@dcr.virginia.gov) to receive instructions for signing on to the Project Briefing Webinar. You will need internet connectivity through a computer, tablet or smartphone and ability to hear voice through a phone call at the same time.

Additional information will be posted at <http://www.dcr.virginia.gov/sp-rfi>

IF YOU NEED ANY REASONABLE ACCOMMODATION FOR ANY TYPE OF  
DISABILITY IN ORDER TO PARTICIPATE IN THIS RFI, PLEASE REACH OUT TO THE  
CONTACT LISTED ABOVE

# SOLUTIONS FOR VIRGINIA STATE PARKS TELECOMMUNICATIONS CONNECTIVITY OPPORTUNITIES

## 1. INTRODUCTION

*Note: This IS NOT a Request for Proposal (RFP) – This is a Request for Information*

The Virginia Department of Conservation and Recreation (“DCR”) is issuing this Request for Information (“RFI”) to solicit innovative responses to questions presented in this document related to improving Telecommunications Connectivity within Virginia State Parks. A majority of state parks would benefit from improved bandwidth and expanded coverage areas (Telecommunications Connectivity). A listing of state parks and their current connectivity methods appears as Attachment A. The release of this RFI is solely to seek input on innovative solutions and partnering opportunities. It constitutes a vehicle for information gathering purposes only. This RFI will NOT result in any award or contract for services from DCR. This RFI is a unique opportunity for DCR to identify potential partners and private sector interest as well as refining assumptions and viability of a future Request for Proposal process. Specifically, this RFI:

- a) Provides general background information related to the Projects;
- b) Communicates the goals and objectives for development of the Projects; and
- c) Solicits input from industry on a variety of issues, including viability and feasibility, scope, location and phasing of the proposed Projects, and the conveyance methods that may have the greatest potential to satisfy the overall goals and objectives for the Projects.

This RFI does not constitute a Request for Qualifications (“RFQ”), a Request for Proposals (“RFP”), or other solicitation, nor does it constitute the commencement of any other type of formal procurement process for the Projects. Responding to this RFI is not a prerequisite to participating in future procurement processes. Moreover, this RFI does not represent a commitment by DCR or other entities to issue an RFQ or an RFP for the Projects in the future. Therefore, those choosing to respond to this RFI (“Respondent”) will not, merely by virtue of submitting such a response, be deemed to be “bidders” on the Projects in any sense, and no such Respondent will have any preference, special designation, advantage or disadvantage whatsoever in any subsequent procurement process related to the Projects, if advanced to procurement.

## 2. BACKGROUND

### **Virginia State Parks**

Virginia’s 36 state parks offer thousands of campsites, hundreds of cabins, more than 500 miles of trails and convenient access to Virginia’s major waterways, beautiful beaches, caverns, picnic shelters, family lodges, meeting facilities, festivals, concerts, nature programs, cultural happenings and so much more. Virginia State Parks are visited annually by about 9,000,000 visitors.

The majority of Virginia’s State Parks have limited or no cell phone or internet access. Connectivity is a statewide issue and is not limited to parks in one region of the Commonwealth.

### **3. GOALS AND OBJECTIVES**

The purpose of this RFI is to solicit information and innovative approaches for enhancing Telecommunications Connectivity (wireless/broadband/cellular) within Virginia State Parks. The solutions can encompass Virginia's Parks statewide, or bundled Parks in specific regional areas, or for specific Parks. Ideal outcomes of this initiative will reflect connectivity solutions that address each of these objectives below:

- a) Improved public safety - connectivity is paramount for public safety and homeland security;
- b) Enhanced customer experience - Tourism is Virginia's largest industry and connectivity (or lack thereof) can have an impact on visitor enjoyment, comfort and personal security and safety during hiking and overnight stays in the Parks;
- c) Improved on-site agency business operations and revenue collections. It has become increasingly difficult to manage a growing customer base and increased business operations with limited internet connectivity. DCR is seeking sufficient bandwidth to provide minimal service for credit card transactions and where viable reselling bandwidth to guests to support Wi-Fi, along with increased reliability, (uptime);
- d) Ideally each Virginia State Park would have complete cellular phone coverage and sufficient bandwidth to allow for the resale of bandwidth, via Wi-Fi broadcast throughout the entire site, to provide guests all possible uses, including video streaming up and down; and
- e) A delivery or procurement method that optimizes public and private collaboration and co-investment strategies under many or all functional areas.

### **4. INSTRUCTIONS FOR RESPONDENTS**

The questions to which DCR is seeking responsive information are set forth below in this section. Respondents should be as concise as possible. Responses should demonstrate an understanding of, and express clearly the Respondent's perspective on a given question or issue. However, a Respondent need not feel compelled to provide a response to each item, or respond with information regarding each park.

#### **Key Questions**

##### **General**

- 1) What specific experience does the Respondent have in third-party financing of telecommunications network projects completed or underway on publicly owned property? Please provide contact information for the public agencies for which these projects were developed.
- 2) Do you foresee state or federal legislative policy or process issues that would hinder the feasibility of any of the Projects? If so, then what are they and how could they be resolved?

## **Commercial and Financial Structure**

- 1) What market related strategies could be employed to facilitate the expansion of improved telecommunications equipment on Virginia State Park property especially in rural areas?
- 2) Based on your experience related to industry and market growth projections in the next ten years, what opportunities exist for the expanded deployment of improved telecommunications equipment on Virginia State Park property?
- 3) Based on your experience related to the development of new technologies in the data transfer industry, what market opportunities should DCR pursue to expand the deployment of improved telecommunications equipment on Virginia State Park property? How will the development of new technologies for data transfer affect the potential for the deployment of improved telecommunications equipment on Virginia State Park property?
- 4) Based upon the delivery methods identified below, who would own the assets and equipment in each delivery method? What are the essential terms of the contract for these delivery methods, including the optimal concession period?
- 5) What financing structures are the most feasible for any of the Projects and would provide the best value for the DCR?
- 6) Do you anticipate public funding or incentives being available for any of the Projects? If so, then what would be the anticipated source of these funds or incentives and how do they add value to the Projects?
- 7) Is improved telecommunications equipment installation and operation possible without a public subsidy and, if not, what specific subsidies would be required, from whom and why?
- 8) What threshold financial arrangements would be necessary or other critical factors resolved for any of the Projects to be successful? Please outline in order of relative importance.
- 9) Provide your views on the financing tools that you would propose to utilize for any of the Projects. Based on your anticipated financing structure, what impediments, if any, would prevent you from reaching financial close in a timely manner and how would you propose to overcome those impediments?

## **Project Structure and Development**

### *Delivery Method*

- 10) What delivery methods are available for any of the Projects? What are the advantages of each delivery method? What are the disadvantages of each delivery method? Which delivery method does the Respondent prefer and why?
- 11) What are the key success factors facilitating and barriers impeding success that would make expanded deployment of improved telecommunications equipment on Commonwealth property more or less likely in Virginia State Parks?
- 12) Based upon the information provided in this RFI, what types of sites defined by location, size and other relevant characteristics presents the best opportunity for placement of improved telecommunications equipment in Virginia State Parks and why?
- 13) What information would a private sector partner require in order to facilitate Project development?

## **Project Schedule and Solicitation**

### *Schedule*

- 14) What major steps are needed from Notice of Award for the Project to full operation of the Project? What are the approximate elapsed times associated with these identified steps? What are the key decision points in the process (including go/no go decisions) and why?
- 15) What are the critical path items for the procurement for any of the Projects and why?

### *Solicitation*

- 16) Looking ahead, would the Respondent be interested in submitting a committed proposal for any of the Projects? Are there any particular concerns that may prevent the Respondent from engaging in the project development? How might those concerns be resolved?
- 17) What are the key elements of an RFQ for the deployment of improved telecommunications equipment on Virginia State Park property project? Please provide references to other RFQs that have effectively elicited innovative proposals for telecommunications equipment projects on publicly owned property and resulted in successful projects.
- 18) What is the minimum amount of time that your firm requires for developing and submitting a Statement of Qualifications (“SOQ”) for any of the Project after issuance of potential RFQs?
- 19) What are the key elements of an RFP for improved telecommunications equipment on Virginia State Park property? Please provide references to other RFPs that have effectively elicited innovative proposals for telecommunications equipment projects on publicly owned property and resulted in the delivery of successful projects.
- 20) What is the minimum amount of time required by the Respondent for developing and submitting a committed detailed proposal for any of the Projects after issuance of a potential RFP?

### **Additional Considerations**

- 21) Are there any particular concerns with any of the information that has been provided in this RFI? Please explain those concerns and provide proposed solutions or mitigations to address those concerns.
- 22) Please provide any comments or other creative project scope ideas, procurement options, technical considerations, etc. that DCR should take into account.
- 23) What are the top risks or opportunities for successful delivery of any of the Projects and why? What potential impact could the identified risks or opportunities have? What potential mitigation or enhancement strategies could be employed to decrease the identified risks or enhance the identified opportunities?
- 24) In the Respondent’s experience, what type of public benefit and economic development could a project related to the expanded deployment of improved telecommunications equipment on Virginia State Park property foster in terms of new businesses and job creation?
- 25) What challenges related to communication with local officials, communities and business does the Respondent foresee and what strategies are suggested to be employed to maintain open and transparent relationships?
- 26) Other than the answers already provided, what information would help the Respondent make the business decision to engage in the development of any of the Projects?

DCR is not requesting general marketing materials, budgetary information or proprietary information in response to this RFI.

### **Submission Instructions**

Respondents should submit their responses electronically as follows:

- a) An electronic version of the response via e-mail to *Telecommunications@dcr.virginia.gov*;
- b) Responses shall be submitted by November 1, 2016; and
- c) Responses should include the name and address of the Respondent and the phrase “*Virginia State Parks Telecommunications Connectivity*” clearly indicated in the subject line of the e-mail accompanying the electronic version of the response.

### **Additional Instructions**

- a) Respondents are strongly encouraged to respond to this RFI in full, but DCR will entertain responses for only parts of this RFI that the Respondent feels that they can adequately address;
- b) DCR will entertain suggestions regarding how to leverage partnerships, utilize existing assets, and coordinate connectivity with other infrastructure improvements;
- c) Respondents are encouraged to provide information regarding steps DCR should consider to expand connectivity; and
- d) Respondents should have a demonstrated proficiency in the area of wireless; should present a thoughtful plan and strategy for developing and maintaining a reliable wireless network; should exhibit an understanding of cost-efficient solutions; and should have the knowledge and ability to ensure the network can be updated as technologies change.

### **Respondent Meetings**

DCR will host a project briefing to provide interested private sector individuals, firms, companies, or teams an opportunity to hear more about the project and ask questions. See details in Section 6.

DCR and its consultants may request a one-on-one proprietary clarification meeting with a Respondent to discuss the RFI and response.

Based on responses, DCR reserves the right to offer and conduct such meetings in the future. The opportunity to participate in future meetings will be communicated separately to Respondents who have provided a point of contact.

Respondents are advised that submissions will be shared among DCR staff and its consultants as outlined in Section 5 of this document.

## **Information Requested**

a) **Point of Contact**

Please provide the name, title, firm, phone, email address, and physical address of your firm's primary point of contact for this RFI.

b) **Firm Background**

Please provide a short overview of your firm's experience in relevant, comparable development projects with an emphasis on broadband, wireless, or cellular infrastructure development and public-private partnerships or other project delivery models Respondent believes would optimize delivery of the RFI's goals and objectives.

c) **Technological Considerations**

For purposes of this RFI, DCR is technology-agnostic and all technology options will be considered equally based upon: 1) the ability to meet or exceed the goals as described previously; 2) any investment required of DCR to support the proposed solution implementation and likely recurring expenditures; 3) the ability to scale the proposed solution to deliver greater speeds and bandwidth in future years; and 4) the ability to provide access to the internet and cellular service to the largest area within each park.

## **5. CONFIDENTIALITY/FREEDOM OF INFORMATION ACT/RIGHTS RESERVED**

The Virginia Freedom of Information Act, § 2.2-3700 the Code of Virginia, guarantees citizens of the Commonwealth and representatives of the media access to public records held by public bodies, public officials, and public employees. All materials submitted by Respondent shall be handled in accordance with the Freedom of Information Act and any other laws and regulations applicable to the disclosure of documents submitted under this RFI. In no event shall DCR or any of its agents, representatives, consultants, directors, officers or employees be liable to a Respondent for the disclosure of any materials or information submitted in response to this RFI.

DCR may disclose the contents of all responses to this RFI, except the parts that may be treated as confidential in accordance with § 2.2-3706 of Freedom of Information Act. Each Respondent, by submitting a response to this RFI, consents to such disclosure and expressly waives any right to contest such disclosure under the Freedom of Information Act.

If a Respondent has special concerns about information which it desires to make available to DCR but which it believes constitutes a trade secret, proprietary information, or other information exempted from disclosure, such Respondent shall specifically and conspicuously designate that information by placing "CONFIDENTIAL" in the header or footer of each such page affected, and in a separate letter explain why that material should be exempt from public disclosure. Blanket designations that do not identify the specific information shall not be acceptable and may be cause for DCR to treat the entire response as public information. DCR will not advise a submitting party as to the nature or content of documents entitled to protection from disclosure under the Freedom of Information Act or other applicable laws, as to the interpretation of such laws, or as to definition of trade secret. The provisions of the Freedom of Information Act or other laws shall control in the event of a conflict between the procedures described above and the applicable law.

In the event of any proceeding or litigation concerning the disclosure of any response or portion thereof, the Respondent shall be responsible for otherwise prosecuting or defending any action concerning the materials at its sole expense and risk; provided, however, that DCR reserves the right, in its sole discretion, to intervene or participate in the litigation in such manner as it deems necessary or desirable. All costs and fees (including attorneys' fees and costs) incurred by DCR in connection with any litigation, proceeding or request for disclosure shall be reimbursed and paid by the Respondent whose response is the subject thereof.

## 6. SPECIFICS

- a) RFI Issuance Date: September 1, 2016
- b) Questions Regarding RFI Due by: October 26, 2016
- c) RFI Closing Date: November 1, 2016 at 5:00 PM ET
- d) Project Briefing Webinar Date: October 4, 2016 at 1:00 PM ET
- e) Project Briefing Webinar will be an online meeting  
Please E-mail [Telecommunications@dcr.virginia.gov](mailto:Telecommunications@dcr.virginia.gov) to receive instructions for signing on to the Project Briefing Webinar. You will need internet connectivity through a computer, tablet or smartphone and the ability to hear voice through a phone call at the same time. Call 804-625-3992 for any technical issues related to signing on this webinar.
- f) DCR will not be held liable for any costs incurred by any Respondent pertaining to the preparation and submittal of any written responses, or for participation in any discussions or meetings in response to this RFI.

## 7. POINT OF CONTACT

All questions associated with this RFI can be addressed to the following point of contact:  
[Telecommunications@dcr.virginia.gov](mailto:Telecommunications@dcr.virginia.gov)

Answers to questions will be returned by e-mail and posted at this link  
<http://www.dcr.virginia.gov/sp-rfi>

Questions will be entertained until October 26, 2016.

## ATTACHMENT A

### Virginia State Parks

More detailed information can be found at: <http://www.dcr.virginia.gov/state-parks/>

Park			Address
Bear Creek Lake	N 37° 31.834	W 78° 16.136	22 Bear Creek Lake Road Cumberland, VA 23040
Belle Isle	N 37° 46.768	W 76° 35.550	1632 Belle Isle Road Lancaster, VA 22503
Caledon	N 38° 19.915	W 77° 8.735	11617 Caledon Road King George, VA 22485
Claytor Lake	N 37° 3.449	W 80° 37.266	6620 Ben H. Bolen Drive Dublin, VA 24084
Chippokes Plantation	N 37° 8.717	W 76° 44.319	695 Chippokes Park Road Surry, VA 23883
Douthat	N 37° 54.243	W 79° 48.018	14239 Douthat State Park Road Millboro, VA 24460
False Cape	N 36° 38.528	W 75° 54.142	4001 Sandpiper Road Virginia Beach, VA 23456
First Landing	N 36° 54.980	W 76° 2.462	2500 Shore Drive Virginia Beach, VA 23451
Fairy Stone	N 36° 47.921	W 80° 6.574	967 Fairystone Lake Drive Stuart, VA 24171
Grayson Highlands	N 36° 37.406	W 81° 29.903	829 Grayson Highlands Lane Mouth of Wilson, VA
High Bridge Trail	N 37° 18.427	W 78° 23.208	6888 Green Bay Road Green Bay, VA 23942
Holliday Lake	N 37° 23.986	W 78° 38.458	2759 State Park Road Appomattox, VA 24522
Hungry Mother	N 36° 53.039	W 81° 31.608	2854 Park Boulevard Marion, VA 24354

James River	N 37° 37.418 W	78° 47.969	104 Green Hill Drive Gladstone, VA 24553
Kiptopeke	N 37° 10.354 W	75° 58.606	3540 Kiptopeke Drive Cape Charles, VA 23310
Lake Anna	N 38° 8.478 W	77° 49.048	6800 Lawyers Road Spotsylvania, VA 22551
Leesylvania	N 38° 38.544 W	77° 11.898	2001 Daniel K. Ludwig Drive Woodbridge, VA 22191
Mason Neck	N 38° 38.557 W	77° 11.833	7301 High Point Road Lorton, VA 22079
New River Trail (Foster Fall)	N 36° 53.035 W	80° 51.379	116 Orphanage Drive Foster Falls, VA 24360
New River (Cliffview Station)	N 36° 40.866 W	80° 55.083	451 Cliffview Road Galax, VA 24333
Natural Tunnel	N 36° 42.236 W	82° 44.287	1420 Natural Tunnel Parkway Duffield, VA 24244
Occoneetchee	N 36° 37.828 W	78° 31.625	1192 Occoneetchee Park Road Clarksville, VA 23927
Pocahontas	N 37° 23.084 W	77° 34.984	10301 State Park Road Chesterfield, VA 23832
Powhatan	N 37° 39.584 W	77° 55.379	4616 Powhatan State Park Road Powhatan, VA 23139
Sailor's Creek Battlefield	N 37° 18.609 W	78° 13.316	6541 Saylers Creek Road Rice, VA 23966
Shenandoah River (Andy Guest)	N 38° 51.751 W	78° 18.455	350 Daughter of Stars Drive Bentonville, VA 22610
Sky Meadows	N 38° 59.139 W	77° 57.546	11012 Edmonds Lane Delaplane, VA 20144
Smith Mountain Lake	N 37° 5.498 W	79° 35.478	1235 State Park Road Huddleston, VA 24104

Staunton River	N 36° 41.868 W 78° 40.622	1170 Staunton Trail Scottsburg, VA 24589
Staunton River Battlefield	N 36° 53.002 W 78° 42.368	1035 Fort Hill Trail Randolph, VA 23962
Southwest Virginia Museum	N 36° 51.825 W 82° 46.797	10 West 1st Street North Big Stone Gap, VA 24219
Twin Lakes	N 37° 10.539 W 78° 16.725	788 Twin Lakes Road Green Bay, VA 23942
Westmoreland	N 38° 9.255 W 76° 52.351	145 Cliff Road Montross, VA 22520
Wilderness Road	N 36° 37.871 W 83° 29.877	8051 Wilderness Road Ewing, VA 24248
York River	N 37° 24.719 W 76° 42.849	9801 York River Park Road Williamsburg, VA 23188
Breaks Interstate Park (Va.-Ky.)	N 37° 17.183 W 82° 17.611	627 Commission Circle Breaks, VA 24607

Park	Location within Park	Internet through (fiber, cable, DSL, cellular, satellite, dial up)	Connectivity Effectiveness/ Sufficiency? High or Low or None
Occoneetchee	Cabin area	None	None
Occoneetchee	Campground	None	None
Occoneetchee	Shop	None	None
Occoneetchee	Residence 1	DSL	Low
Occoneetchee	Residence 2	DSL	Low
Occoneetchee	Residence 3	DSL	Low
Occoneetchee	Office	DSL	Low
Twin Lakes	Office	Cellular air card	Low
Twin Lakes	Shop	Cellular air card	Low
Twin Lakes	Cedar Crest Office	Cellular air card	Low
Twin Lakes	Cedar Crest Conference Center	None	None
Twin Lakes	The Spot	None	None
Twin Lakes	Campground	None	None
Twin Lakes	Cabins - current	None	None

Twin Lakes	Cabins - future	None	None
Wilderness Road	Visitor Center/Office	fiber	High
Wilderness Road	Karlan Mansion	fiber	High
Wilderness Road	Maintenance Shop	fiber	High
Wilderness Road	Bunk House	Router	High
Wilderness Road	Contact Station	dial up	High
Wilderness Road	Customer hot spot at V.C.	fiber	High
Pocahontas	Office	DSL	Low
Pocahontas	Campstore/Customer Hotspot	DSL	Low
Pocahontas	Logistics	DSL	Low
Pocahontas	Business Manager Office	Cellular	Low
Pocahontas	Heritage Center	Cellular	Low
Pocahontas	District Office	DSL	Low
Pocahontas	Campground	None	None
Pocahontas	Swift Creek Dining Hall	None	None
Pocahontas	Eco Dining Hall	None	None
Pocahontas	CCC Museum	None	None
Pocahontas	Pool	None	None
Pocahontas	Shop	None	None
Pocahontas	Chief Rangers Office	None	None
Chippokes	Office/Public Hotspot	cellular aircard	High
Chippokes	Museum	cellular aircard	Low
Chippokes	Contact Station	cellular aircard	Low
Chippokes	Pool	satellite	Low
Chippokes	Shop	cellular aircard	Low
Chippokes	Cabins	none at this time	None
Chippokes	Campground	none at this time	None
Grayson Highlands	Office & Contact Station	DSL	Low
Grayson Highlands	Shop	DSL	High
Grayson Highlands	Visitor Center	Dial Up	Low
Grayson Highlands	Country Store	Dial Up	Low
Grayson Highlands	Chestnut Hollow Campground	none	

Mason Neck	Contact Station	Dial up	High
Mason Neck	Shop	1 Air Card	Low
Mason Neck	Office/Visitor Center	3 Air Cards and 2 Mifi	High
Mason Neck	Jammes House	None	None
Mason Neck	Other Areas		None
James River	CONTACT STATION	FIBER VIA RADIO	Low
James River	HORSESHOE CAMPGROUND	NONE	None

James River	CAMP STORE/LIVERY	FIBER VIA RADIO	None
James River	BARN	FIBER VIA RADIO	None
James River	SHOP	FIBER VIA RADIO	High
James River	LINEN BUILDING	FIBER VIA RADIO	High
James River	VISITOR CENTER	FIBER VIA RADIO	Low
James River	CABINS	RADIO	High
James River	RED OAK CAMPGROUND	NONE	None
James River	MANAGER'S RESIDENCE	PRIVATE Line	High
James River	ASSISTANT'S RESIDENCE	NONE	None
James River	CHIEF'S RESIDENCE	FIBER VIA RADIO	High
Bear Creek	Park Office	DSL	High
Bear Creek	Contact Station/Campground	DSL	High
Bear Creek	Lakeside Diner and Wi- Fi hotspot	DSL	High
Bear Creek	Bear Creek Hall	DSL	High
Bear Creek	Linen Building/Cabins	Cellular	High
Bear Creek	Park Ranger Office	DSL	Yes
Bear Creek	Boathouse	None	None
Bear Creek	Cabins	None	
Claytor Lake	Park Office	DSL/Power line Ethernet	High
Claytor Lake	Contact Station	DSL	High
Claytor Lake	Shop	DSL through Antenna @ Meeting Facility	Low
Claytor Lake	Water's Edge Meeting Facility-Office and Gift Shop	DSL and wireless router	Low
Claytor Lake	Beach	DSL through Antenna @ Meeting Facility	Low
Claytor Lake	Gas Dock	DSL through Antenna @ Meeting Facility	Yes
Claytor Lake	Customer Hot Spot at Meeting Facility-Inside Meeting Room	DSL through Antenna @ Meeting Facility	Low
Claytor Lake	Customer Hot Spot at Meeting Facility- Exterior	DSL through Antenna @ Meeting Facility	Low

Claytor Lake	Customer Hot Spot at Beach	DSL through Antenna @ Meeting Facility	Low
Claytor Lake	Customer Hot Spot at Cabin 13/Lodge Area	DSL through Antenna @ Meeting Facility	Low
Claytor Lake	Customer Hot Spot at Campgrounds A, B, C and D		Low
Claytor Lake	Cabins 1-12	None	None
Fairy Stone	Office	DSL, Wi-Fi (not public)	High
Fairy Stone	Office	Dial up	Low
Fairy Stone	Visitor Center	DSL, Wi-Fi - beamed from office (not public)	High
Fairy Stone	Fayerdale Hall	Wi-Fi, public, beamed from office	High
Fairy Stone	Snack Bar, beach lawn, lower beach parking area	DSL, public wi-fi	Low
Fairy Stone	Snack Bar	DSL, no Wi-Fi	None
Fairy Stone	Boathouse	dial up	Low
Fairy Stone	Contact Station	dial up	Low
Fairy Stone	Camp Host, Site 35	dial up	Low
Fairy Stone	Mgr Residence	dial up	Low
Fairy Stone	Asst Mgr Residence	dial up	Low
Fairy Stone	Chief Ranger Residence	dial up	Low
Fairy Stone	Campground	None	None
Fairy Stone	Cabins	None	None
York River State Park	Visitor Center wireless both secured and unsecured customer hotspot	Satellite	Low
York River State Park	Maintenance Shop	Dial Up	Low
Holliday Lake	Office	satellite	Low
Holliday Lake	Contact Station	cellular	Low
Holliday Lake	Snack Bar & Boat House	dial up	Low
Holliday Lake	Manager's Residence	Satellite	High
Holliday Lake	Chief Ranger's Residence	Satellite	High
Powhatan	Park Office	satellite	Low
Powhatan	Park Contact Station	uses same satellite signal from the office	

Powhatan	Maintenance Facility	uses same satellite signal from the office	
Powhatan	Ranger Residence 1	uses same satellite signal from the office	
Powhatan	Can be used in multiple locations	Mifi-Cellular	High
Sky Meadows	park office	satellite	Low

Sky Meadows	visitor center	dial up	Low
Sky Meadows	contact station	dial up	Low
Sky Meadows	park manager's residence	dial-up	Low
Sky Meadows	chief ranger's residence/lost mountain trailhead	satellite at chief ranger residence for personal use only;	High
Sky Meadows	Timberlake house/park maintenance shop/turner pond trailhead	None	Low
Sky Meadows	historic area	None	None
Sky Meadows	picnic area	None	None
Smith Mountain	Visitor Center and old office	Broadband	Low
Smith Mountain	Discovery Center -	Broadband	Low
Smith Mountain	Shop	Wireless Air Card	Low
Smith Mountain	Beach	Dial Up	Low
Smith Mountain	Boat Rentals	Broadband	Low
Smith Mountain	Campground	None	None
Smith Mountain	Cabins	None	None
Douthat	office (reaches to shop and Creasey Lodge)	DSL	Low
Douthat	restaurant	DSL	Low
Douthat	beach	DSL	Low
Douthat	campgrounds	none	None
Douthat	cabins	none	None
SWVA Museum HSP	Museum Building	Cable	High
SWVA Museum HSP	Administrative Offices/Poplar Hill Cottage	Cable	High
SWVA Museum HSP	Customer hot spot at museum building.	Cable	High
SWVA Museum HSP	Customer hot spot at Poplar Hill Cottage.	Cable	High

SWVA Museum HSP	Customer hot spot on museum grounds (from museum antenna).	Cable	High
Natural Tunnel	Park Office	DSL	High
Natural Tunnel	Cove Ridge	DSL	Low
Natural Tunnel	Blockhouse Visitor Center	DSL	Low
Natural Tunnel	Visitor Center	DSL	High
Natural Tunnel	Chairlift	DSL	High
Natural Tunnel	Maintenance Shop	DSL	High
Natural Tunnel	Camp store	DSL	High
Natural Tunnel	Interpretive Center	DSL	High
Natural Tunnel	Pool	DSL	High
Natural Tunnel	Cabin Area	None	None
Natural Tunnel	Lovers Leap Campground	None	None
Natural Tunnel	Cove View Campground	None	None
Sailor's Creek Battlefield Historical State Park	Visitor Center	Satellite	Low
Sailor's Creek Battlefield Historical State Park	Visitor Center	Dial Up	Low
Belle Isle	Customer hotspot at Camp Store	Wi-Fi	Low
Belle Isle	Customer Hotspot at Visitors Center (VC)	Wi-Fi	Low
Belle Isle	SHOP	Air card (need high speed internet)	Low
Belle Isle	CONTACT STATION	Dial-up	Low
Belle Isle	VC	Wi-Fi	Low
Belle Isle	Campstore	Wi-Fi	Low
Belle Isle	Campground	None	None
Staunton River Battlefield State Park	Clover Visitor Center	Cellular through antenna booster	High
Staunton River Battlefield State Park	Roanoke Station	Cellular through antenna booster	High
Caledon	Park Office	satellite	Low
Caledon	Maintenance Shop	None	None
Caledon	Visitor Center Lawn	None	None
Caledon	Picnic Shelter/EE Center Area	None	None
Caledon	Residence 1	satellite	Low
Caledon	Residence 2	satellite	Low

Hungry Mother	Discovery Center	Cable	Low
Hungry Mother	Camp Burson Office	Cable	Low
Hungry Mother	District VI Resource Specialist Office	Wifi connection to Camp Burson office	Low
Hungry Mother	Customer hot spot at Camp Burson Campground	Wifi connection to Camp Burson office	Low
Hungry Mother	Beach Concession Stand & Customer hot spot at the beach area	Wi-Fi connection from the Discovery Center	Low
Hungry Mother	Contact Station	Wifi connection from the Discovery Center	Low
Hungry Mother	The Restaurant	Cable	Low
Hungry Mother	Dock 'n' Shop	Wi-Fi connection from the Restaurant	Low
Hungry Mother	Molly's Gift Shop	Cable - Shared connection with main Restaurant modem	High
Hungry Mother	CCC Lodge & customer hot spot at the Lodge	Wi-Fi connection from Ferrell Hall	Low
Hungry Mother	Customer hot spot at Campground B	Wi-Fi connection from Ferrell Hall	Low
Hungry Mother	Customer hot spot at Cabin Loop Area (Cabin 17)	Wi-Fi connection from Ferrell Hall and CCC Lodge	Low
Hungry Mother	Hemlock Haven office	Cable	High
Hungry Mother	Ferrell Hall	Wi-Fi connection from Hemlock Office	High
Hungry Mother	Customer hot spot at Cabin area at Hemlock	Wi-Fi connection from Ferrell Hall	Low
Hungry Mother	Park Maintenance Shop	Cable	High
Westmoreland	VC Office	Satellite	Low
Westmoreland	Camp Store	Satellite	Low
Westmoreland	Murphy Hall	Satellite	Low
Westmoreland	Contact Station	dial up	Low
Westmoreland	Maintenance Shop	dial up/ air card,	Low
Westmoreland	Boat house concession	dial up	Low
Westmoreland	Snack bar/pool	dial up	Low
First Landing	Office	Fiber	High
First Landing	Trail Center	DSL	Low
First Landing	Main Contact Station	Fiber	High
First Landing	64th Street Contact	None	None
First Landing	Trail Center Contact	None	None
First Landing	Maintenance Shop	DSL	Low
First Landing	Courtyard - Public Wifi	Fiber	Low

First Landing	Cabins	Cellular	Low
First Landing	Campground	Cellular	Low
First Landing	CR 2 Residence	Cellular	Low
Staunton River	Visitor Center	cellular	Low
Staunton River	District Office	cellular	Hugh
Staunton River	Contact Station	dial up	Low
Staunton River	Pool Complex	dial up	Low
Staunton River	Shop	cellular	Low
Staunton River	Campground	None	None
Staunton River	Cabins	None	None
New River Trail, Foster Falls	Office-2 Lines	DSL	High
New River Trail, Foster Falls	Depot	DSL	High
New River Trail, Foster Falls	Horse Livery	DSL	High
New River Trail, Foster Falls	Boat & Bike Livery	DSL	High
New River Trail, Foster Falls	Shop	DSL	High
New River Trail, Foster Falls	Office	Mifi	High
New River Trail, Foster Falls	Hotel-Future Facility	DSL	High
New River Trail, Foster Falls	Campground	none	None
New River Trail, Cliffview	Office	DSL	High
New River Trail, Cliffview	Campground	none	None
Lake Anna	Park Office	satellite	High
Lake Anna	Visitor Center	satellite	High
Lake Anna	maintenance shop	no internet	None
Lake Anna	cabin area	no internet	None
Lake Anna	camping area	no internet	None
Lake Anna	picnic area A (includes ramp, swimming beach, snack bar, visitors center, 2 shelters)	no internet	None
Lake Anna	picnic area B (includes 1 shelter)	no internet	None
Lake Anna	Gold mine interpretive area	no internet	None
Lake Anna	Glenora interpretive area	no internet	None
Lake Anna	Residence 1		None

Lake Anna	Residence 2		None
Lake Anna	Residence 3		None
Leesylvania	Office	DSL	Low
Leesylvania	Contact Station	none	None
Leesylvania	Maintenance Shop	DSL	Low
Leesylvania	Marina Store	DSL	Low
Leesylvania	Customer Hot Spot at Marina Store	DSL	Low
Leesylvania	Visitor Center	DSL	Low
Leesylvania	Bait Shack	none	Low
Kiptopeke	Office	DSL	Yes
Kiptopeke	Contact Station	DSL	Yes
Kiptopeke	Contact Station	fiber	Low
Kiptopeke	Camp Store	DSL	Low
Kiptopeke	Shop	Cat 5 cable from office	Low
Kiptopeke	Interpretive Trailer	DSL	High
Kiptopeke	Campground	Fiber	Low
Kiptopeke	Cabins	Fiber	Low
False Cape	Barbour Hill Visitor Center	Satellite	Low
False Cape	Barbour Hill APM residence	cellular	Low
False Cape	Water front locations at Wash Woods and Barbour Hill	Cellular	Low
False Cape	All other locations: campgrounds and trails.	Cellular	None
Shenandoah River	Contact Station/Shop	DSL	Low
Shenandoah River	Visitor Center	DSL	Low
Shenandoah River	Campgrounds	none	None
Shenandoah River	Cabins	none	None
High Bridge Trail	Park Office	DSL	High
High Bridge Trail	Farmville City Scape	DSL	High