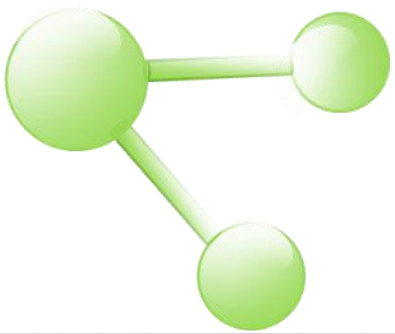
CenturyLink®
Wholesale

Wholesale Carrier EVPL Interconnect Guide

Updated April 2017



Ethernet Virtual Private line Interconnect Guide

Introduction

The purpose of this guide is to illustrate how the each new EVPL Metro Ethernet Network (MEN) is configured. Included are updates we have implemented to consolidate their coverage where possible. The goal is to increase understanding of the MENs and provide recommended Interconnect points where a carrier may place an NNI and have the ability to service an entire MEN.

Naming Conventions

EVPL
Our ILEC-offered Ethernet Virtual Private Line service offered in legacy CenturyTel and Embarq territories. The service was formerly tariffed by the ILECs but was recently granted forbearance, giving CenturyLink additional flexibility to offer EVPL service on a more competitive basis.

EVPL Cloud
This describes how serving wire centers are grouped to form Ethernet service territories. Historically, the network was divided up into serving areas based on geographic, regulatory, or technical criteria.

EVPL MENs
Metro Ethernet Networks – Are new coverage areas made up of one or more EVPL Clouds that have been interconnected to enhance their marketability. A single aggregation point (NNI) can serve the entirety of these new areas.

Ethernet Virtual Private line Interconnect Guide

About Carrier Interconnection

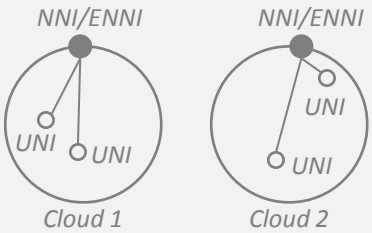
What is Carrier Interconnection?
Wholesale Carrier customers desire to buy Local Access from ILECs such as CenturyLink to complete their network solutions usually on their own IP networks. In order to use Local Access using switched Ethernet, customers must first purchase an "Aggregation UNI" (User Network Interface) or "NNI/ENNI" (Network-to-Network Interface / Extended Network-to-Network Interface), to be able to route their end-user "EVCs" (Ethernet Virtual Connection) to their IP gateways.

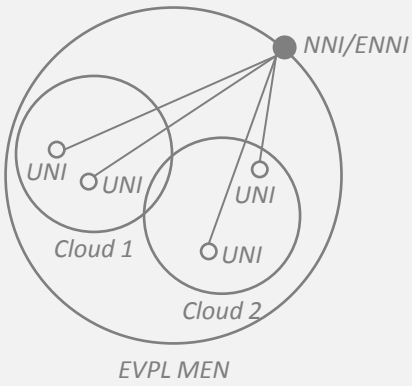
When evaluating whether and where to buy Local Access Interconnects, these carriers must develop their own business cases that demonstrate the benefits in investing in such an Aggregation UNI or NNI/ENNI. They must often consider the market(s) served, the market size, the potential business, and then compare those factors the cost of the Interconnect.

What are CenturyLink's solutions for Carrier Interconnection?
CenturyLink has had great success serving our large metropolitan areas covered under our MOE product (Metro Optical Ethernet). This product however does not cover all of our footprint. Another product, acquired from legacy companies, fills that gap in the form of EVPL (Ethernet Virtual Private Line). EVPL performs very similarly, and in some cases identical to the MOE product.

Challenges with CenturyLink's EVPL Carrier Interconnection
CenturyLink's legacy territories (Embarq and CenturyTel) are often rural in nature, and in many instances surround a metropolitan area rather than penetrate into the urban framework of the city itself the city itself.

With the creation of the EVPL MENs, CenturyLink was successful in consolidating many of the EVPL Clouds into EVPL MENs. Over time, we expect the coverage area of each MEN to be larger which, will make interconnection an easier decision for Wholesale Carriers.

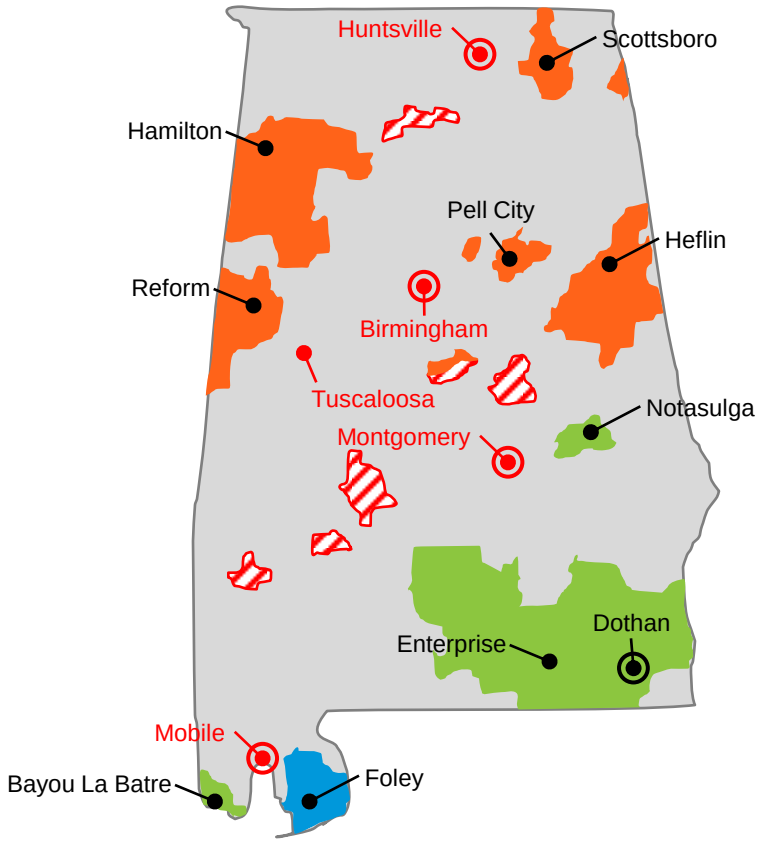




AL

Where to Interconnect in Alabama?

Dothan MEN	Pell City MEN	Foley MEN
• **Dothan, AL**	• **Pell City, AL**	• **Foley, AL**



- Major City with EVPL
- Major city outside territory
- City with EVPL
- City outside territory
- EVPL not available

Summary:

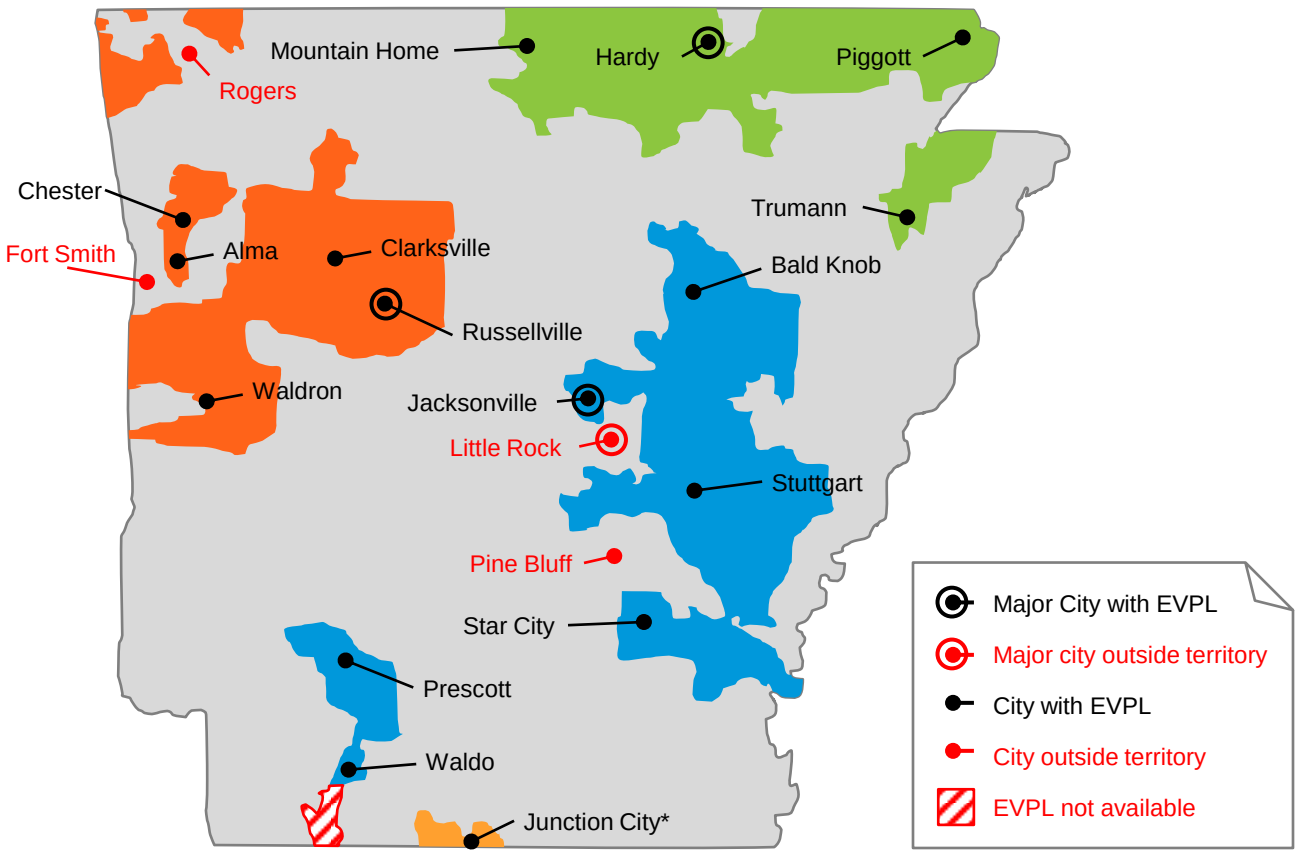
• AL has 3 EVPL MENs spanning 4 LATAs and 93 wire-centers equipped for Ethernet

• LATAs in these MEN are 476, 477, 478 and 480

AR

Where to Interconnect in Arkansas?

Hardy MEN	Russellville MEN	Jacksonville MEN	Marion MEN
• **Hardy, AR**	• **Russellville, AR**	• **Jacksonville, AR**	• **Marion, LA**
			(✱ This is a Louisiana MEN. See LA Map for more details)



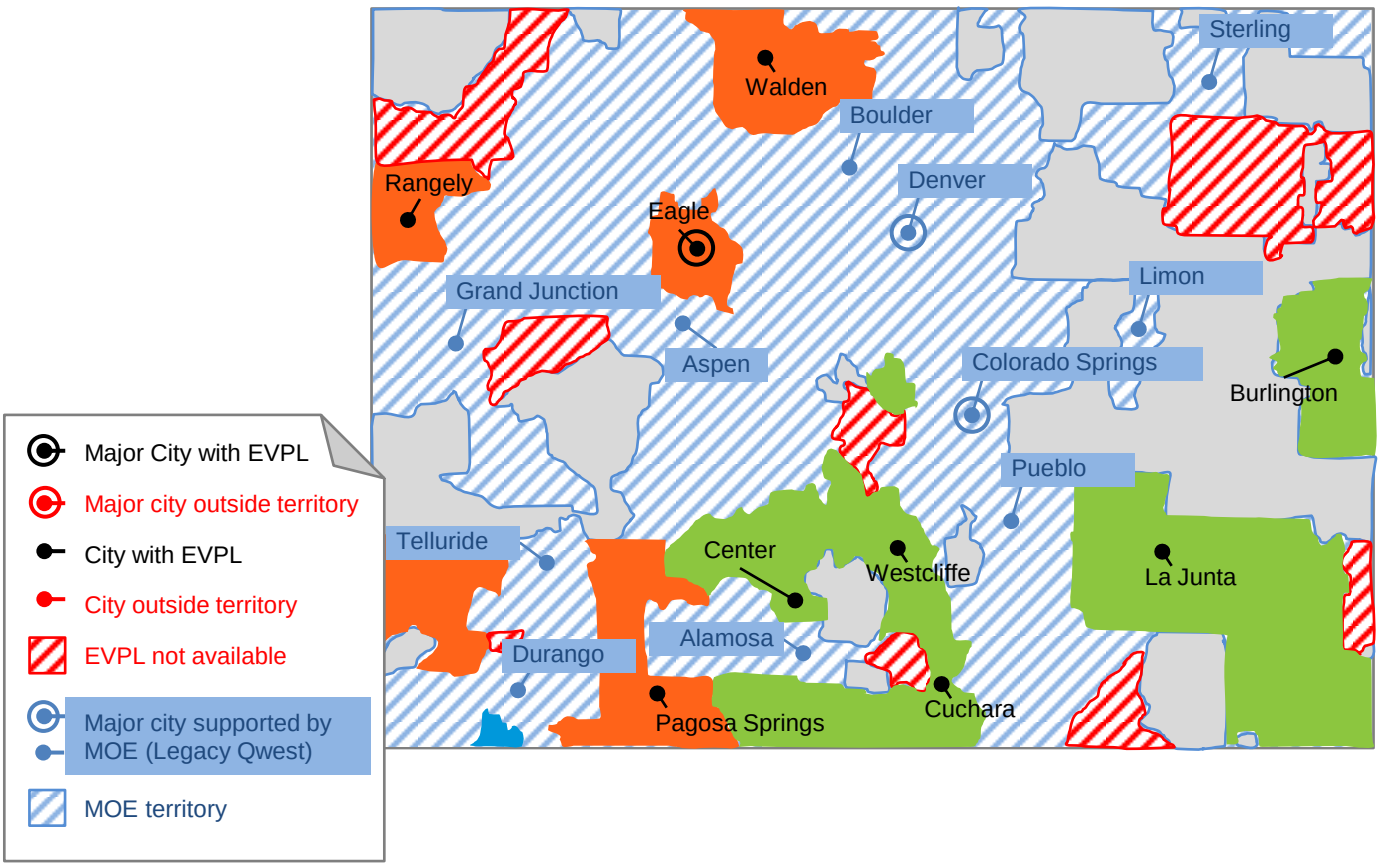
Summary:

• AR has 4 EVPL MENs spanning 3 LATAs and 121 wire-centers equipped for Ethernet
• The Marion MEN is a Louisiana MEN (See LA Map)
• LATAs in these Clouds are 526, 528 and 530

CO

Where to Interconnect in Colorado?

La Junta MEN	Eagle MEN
• La Junta, CO	• Eagle, CO



Summary:

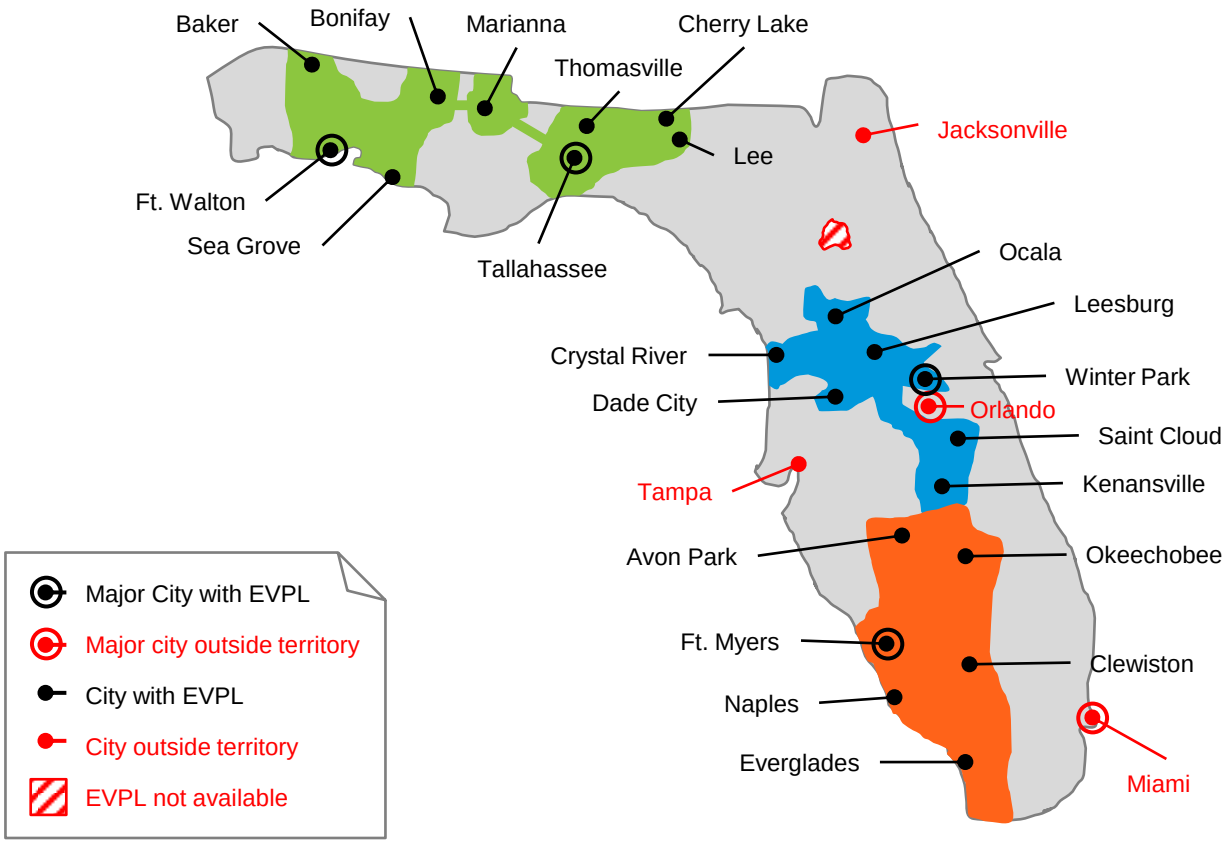
• CO has 2 EVPL MENs spanning 2 LATAs and 49 wire-centers equipped for Ethernet

• LATAs in these MENs are 656 and 658

FL

Where to Interconnect in Florida?

North Florida MEN	Central Florida MEN	South Florida MEN
• Ft. Walton, FL (LATAs 448 and 450) • Tallahassee, FL (LATA 953)	• Winter Park, FL	• Ft. Meyers (Preferred) • Avon Park, FL • Naples, FL • Winter Park, FL
Fort Walton Cloud Tallahassee Cloud	Ocala Cloud Leesburg Cloud Winter Park Cloud	Avon Park Cloud Fort Myers Cloud Naples Cloud



Summary:

• FL has 3 EVPL MENs spanning 6 LATAs and 142 wire-centers equipped for Ethernet

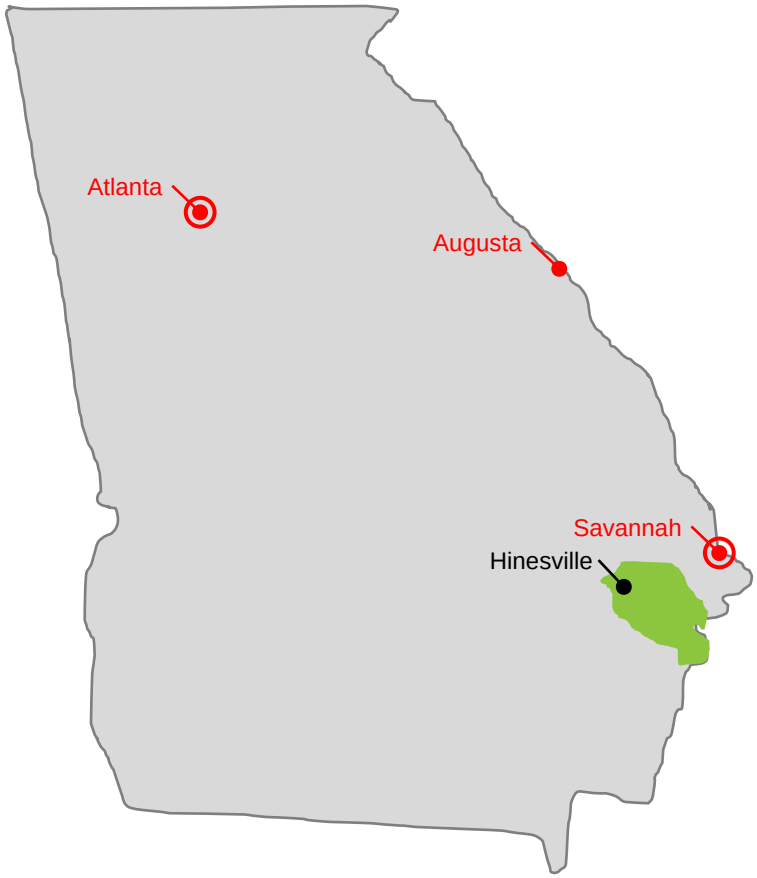
• LATAs in these MENs are 448, 450, 454, 458, 939 and 953

GA

Where to Interconnect in Georgia?

Hinesville MEN

- **Hinesville, GA**



Major City with EVPL
Major city outside territory
City with EVPL
City outside territory
EVPL not available

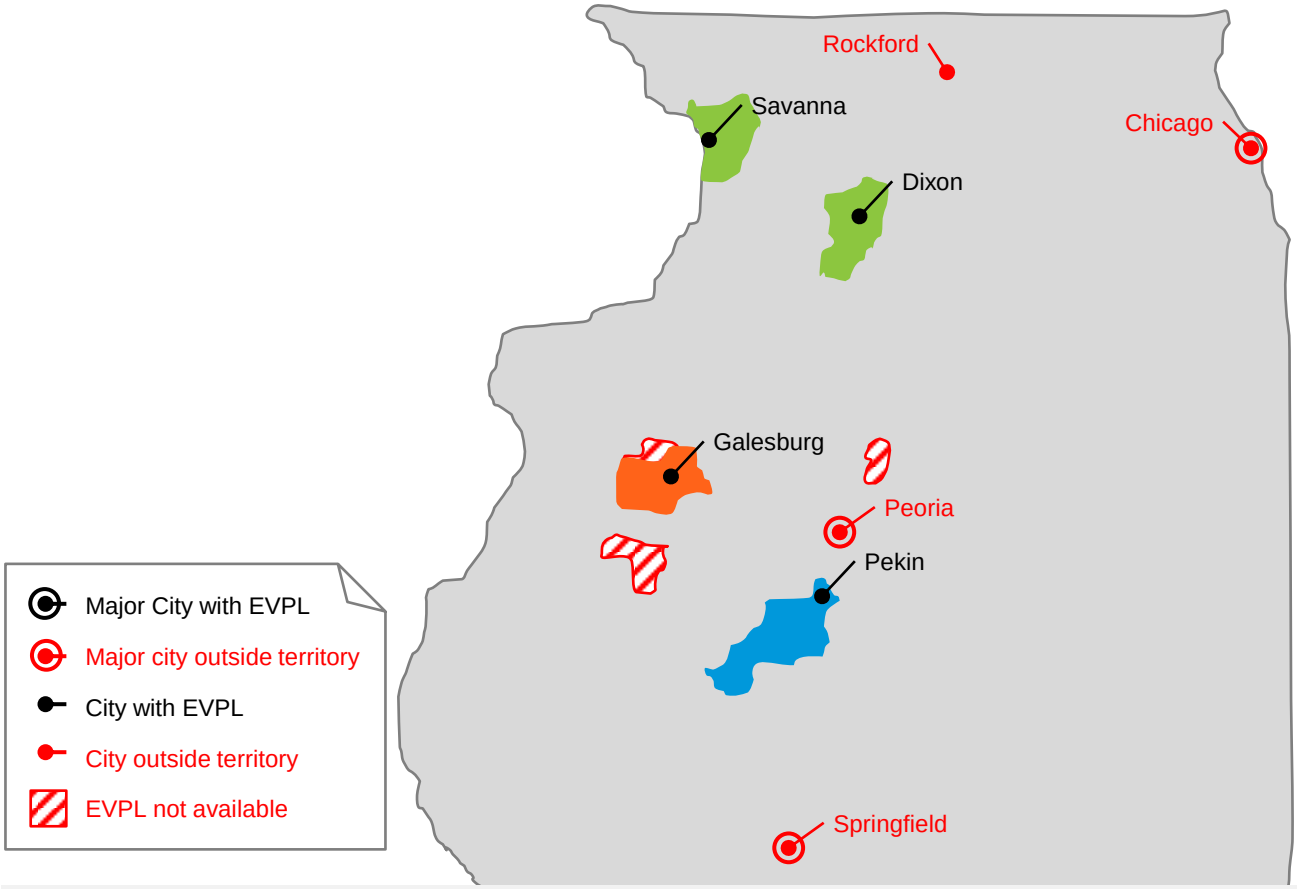
Summary:

• GA has 1 EVPL MEN spanning 1 LATAs and 4 wire-centers equipped for Ethernet
• LATA in this MEN is 440

IL

Where to Interconnect in Illinois?

Dixon MEN	Galesburg MEN	Pekin MEN
• **Dixon, IL**	• **Galesburg, IL**	• **Pekin, IL**



Summary:

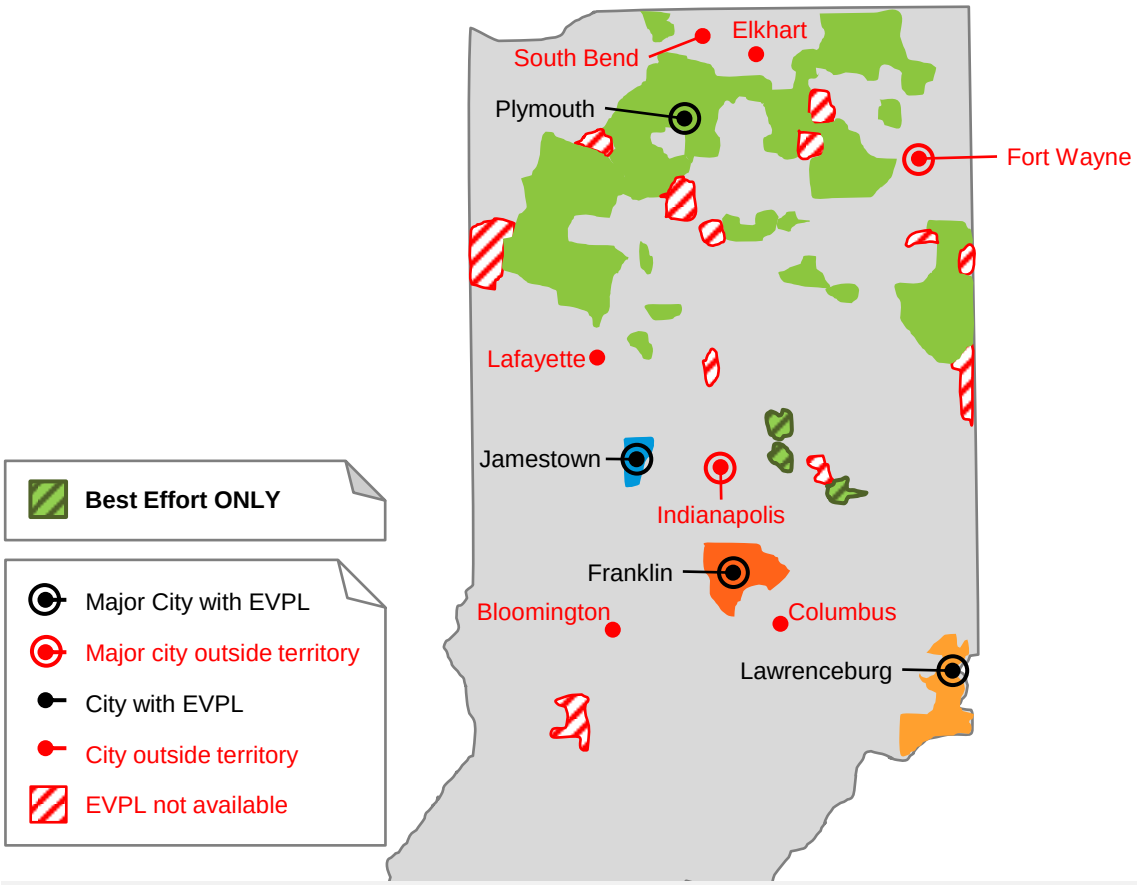
• IL has 3 EVPL MENs spanning 3 LATAs and 20 wire-centers equipped for Ethernet

• LATAs in these MENs are 364, 368 and 977

IN

Where to Interconnect in Indiana?

Plymouth MEN	Franklin MEN	Jamestown MEN	Lawrenceburg MEN
• Plymouth, IN	• Franklin, IN	• Jamestown, IN	• Lawrenceburg, IN



Summary:

• IN has 6 EVPL MENs spanning 6 LATAs and 79 wire-centers equipped for Ethernet

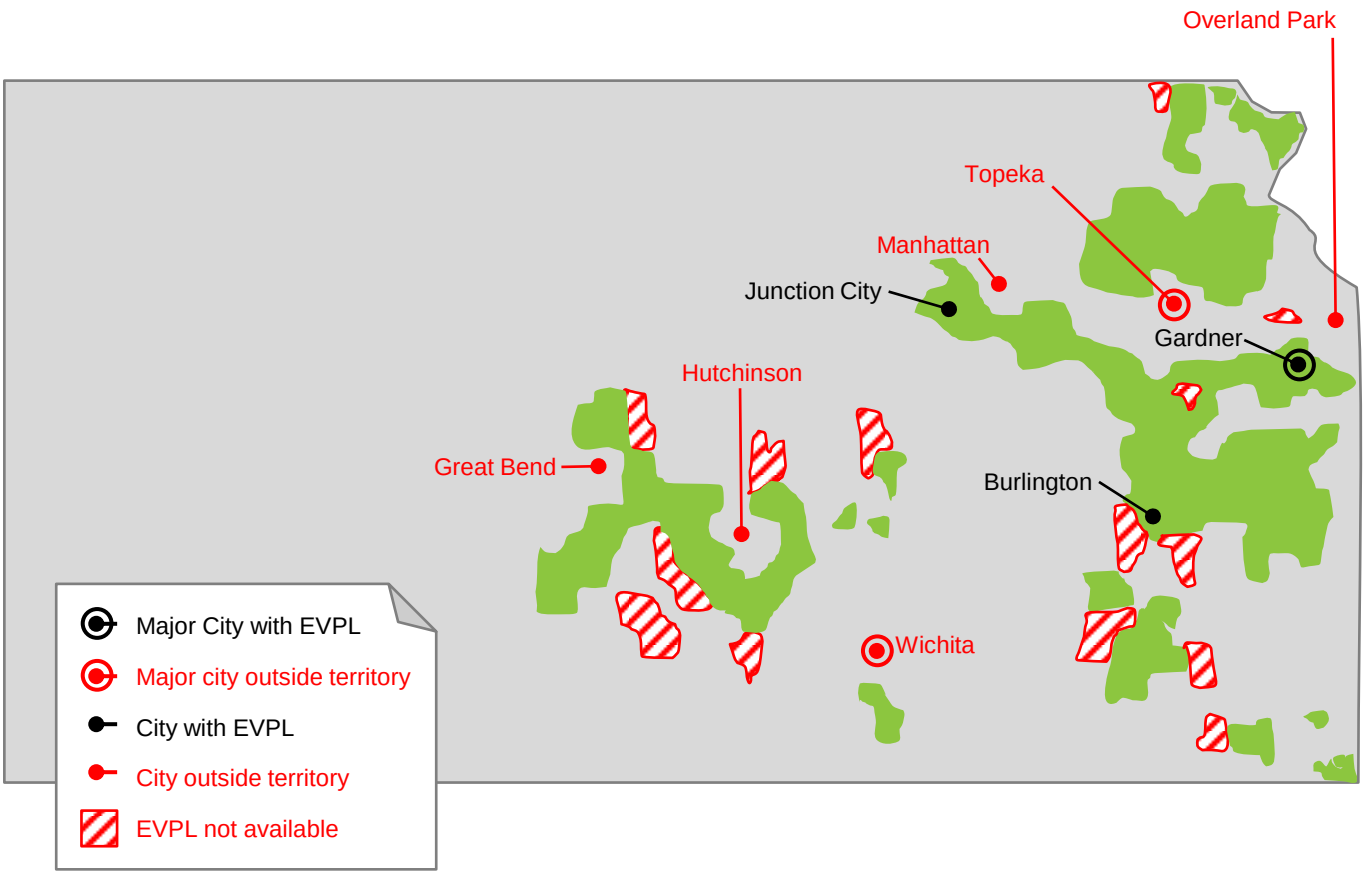
• LATAs in these MENs are 332, 334, 336, 338, 922 and 937

KS

Where to Interconnect in Kansas?

Gardner MEN

- **Gardner, KS**



Summary:

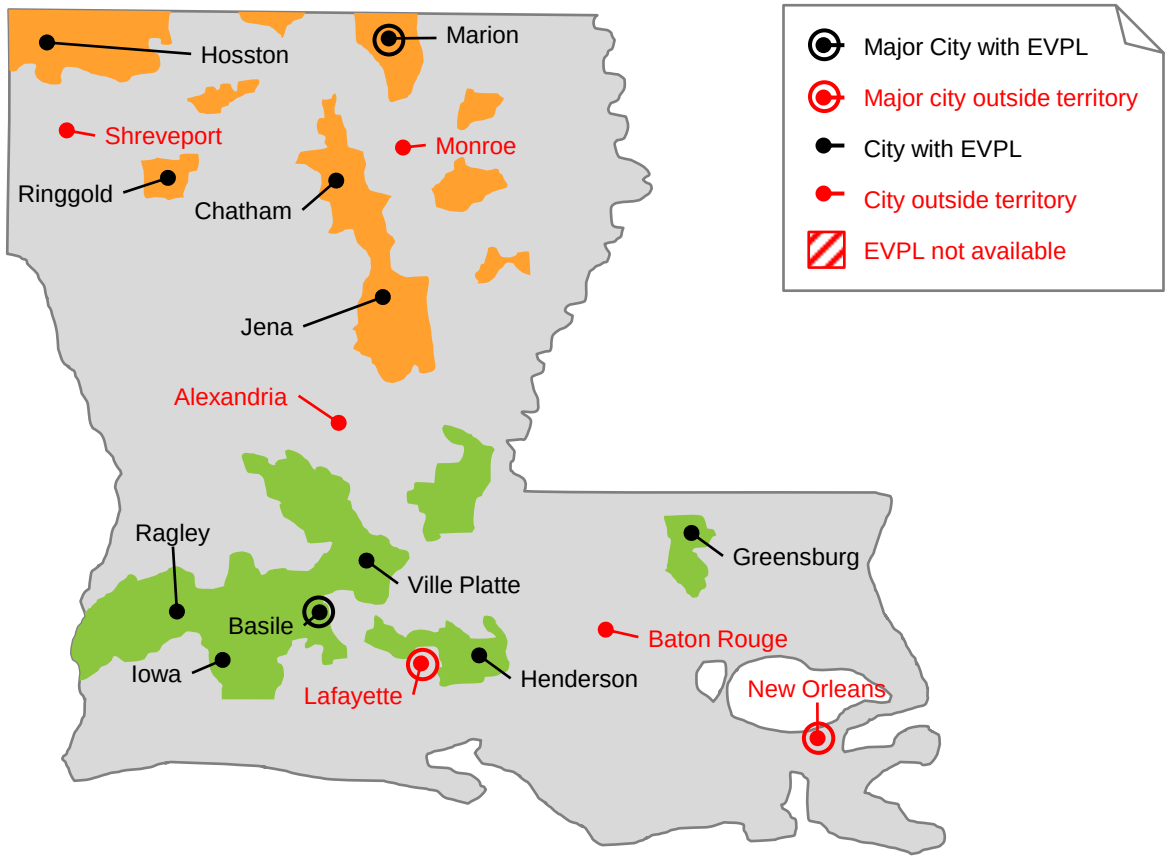
• KS has 1 EVPL MEN spanning 3 LATAs and 98 wire-centers equipped for Ethernet

• LATAs in this MEN are 532, 534 and 524

LA

Where to Interconnect in Louisiana?

Basile MEN	Marion MEN
• **Basile, LA**	• **Marion, LA**



Summary:

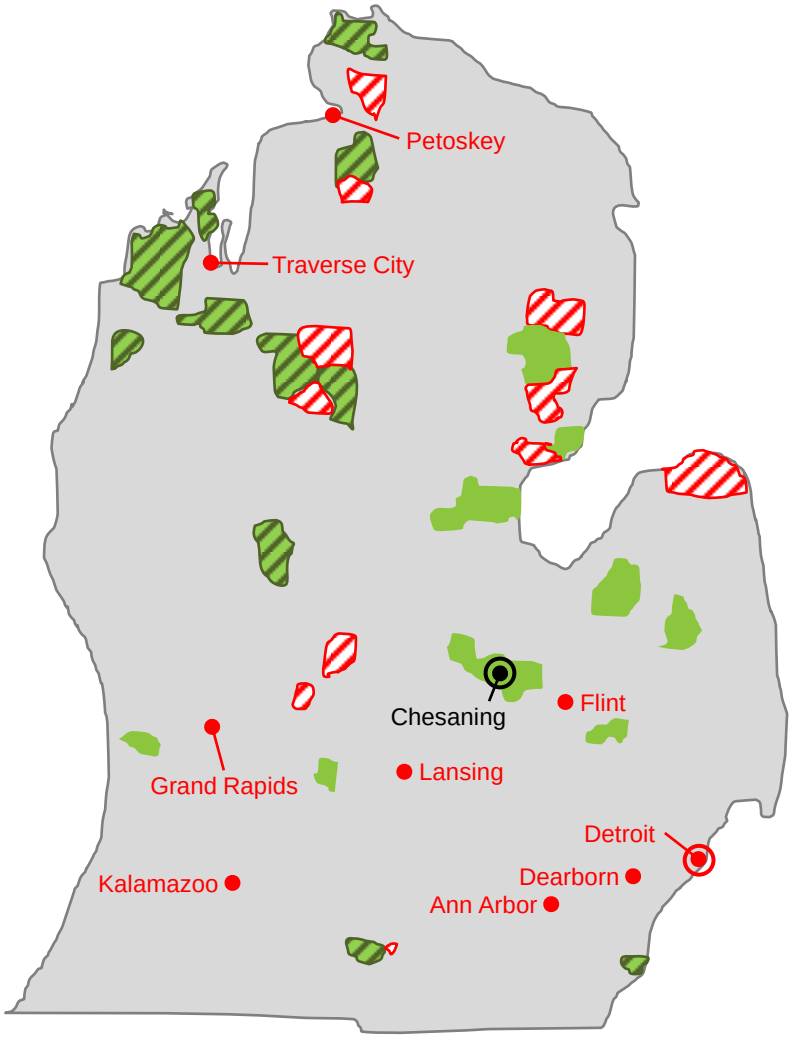
- *LA has 2 EVPL MENs spanning 3 LATAs and 63 wire-centers equipped for Ethernet*
- *The Marion MEN extends into Arkansas (See AR Map)*
- *LATAs in these MENs are 486, 488 and 492*

MI

Where to Interconnect in Michigan?

Chesaning MEN

- **Chesaning, MI**



Best Effort ONLY

Major City with EVPL
Major city outside territory
City with EVPL
City outside territory
EVPL not available

Summary:

• MI has 1 EVPL MEN spanning 4 LATAs and 38 wire-centers equipped for Ethernet
• LATAs in this MEN are 344, 346, 348 and 340

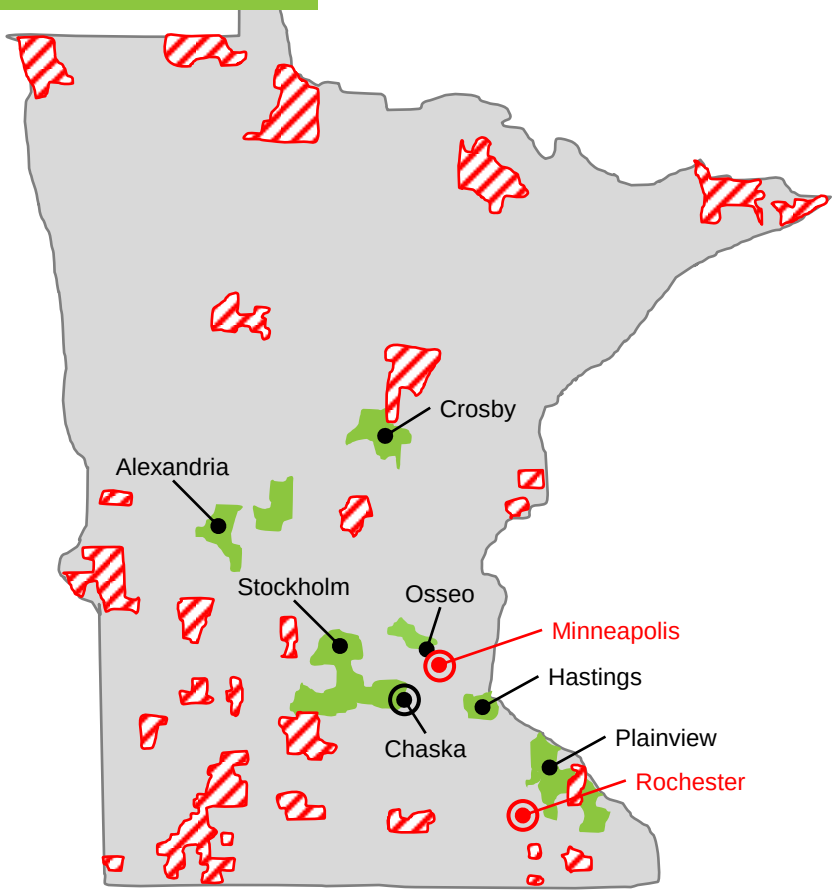
MN

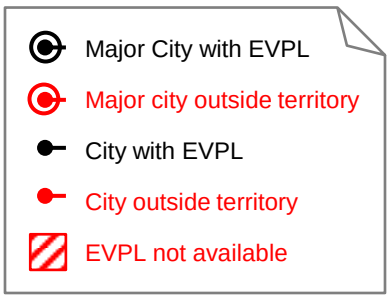
Where to Interconnect in Minnesota?

Chaska MEN

- **Chaska, MN**

Crosby Cloud
Hastings Cloud
Plainview Cloud
Alexandria Cloud
Alexandria2 Cloud





Summary:

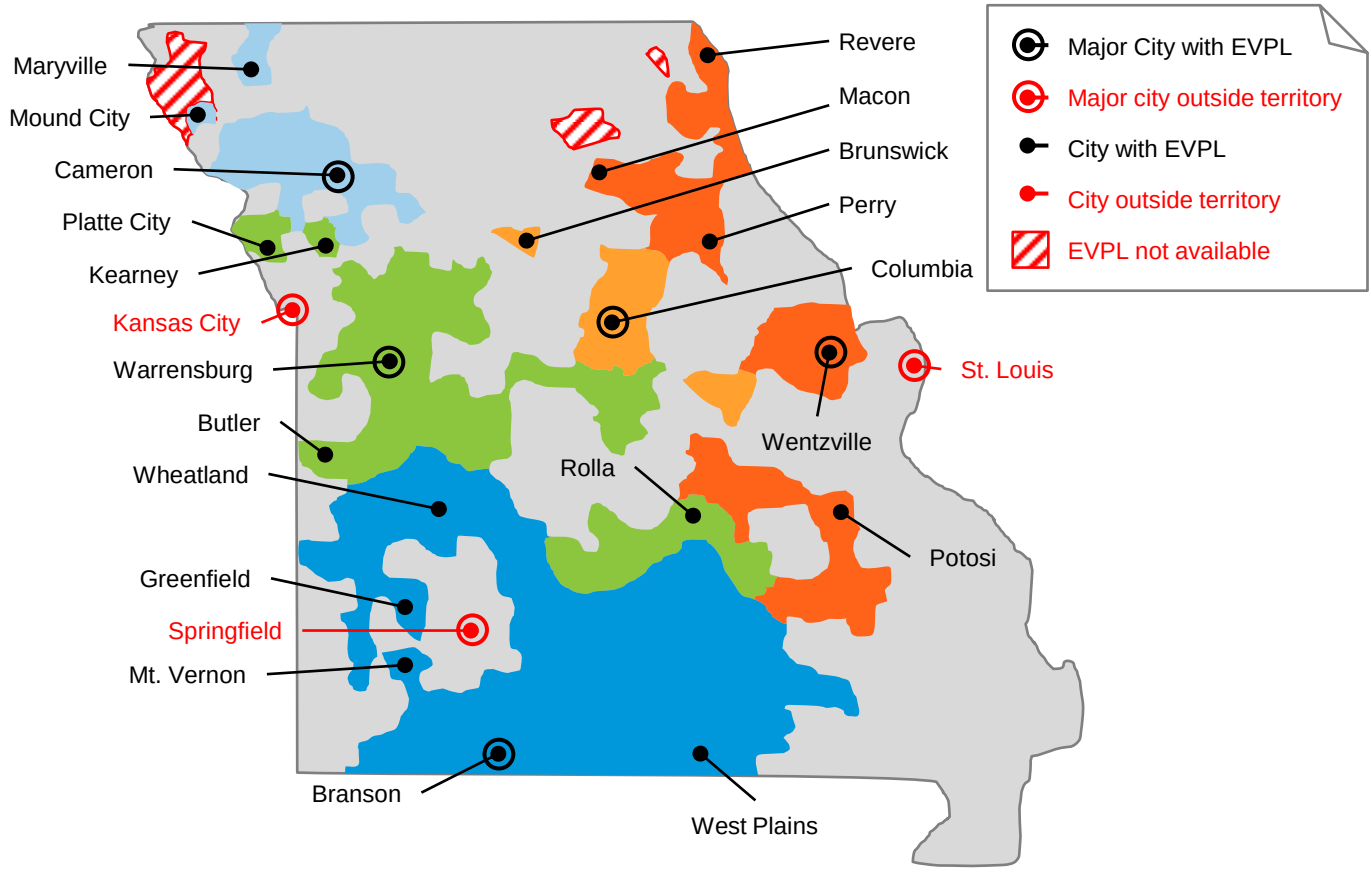
• MN has 1 EVPL MEN spanning 4 LATAs and 42 wire-centers equipped for Ethernet

• LATAs in this MEN are 620, 626, 628 and 636

MO

Where to Interconnect in Missouri?

Warrensburg MEN	Wentzville MEN	Branson MEN	Columbia MEN
• Warrensburg, MO	• Wentzville, MO	• Branson, MO	• Columbia, MO
			Cameron MEN
			• Cameron, MO



Summary:

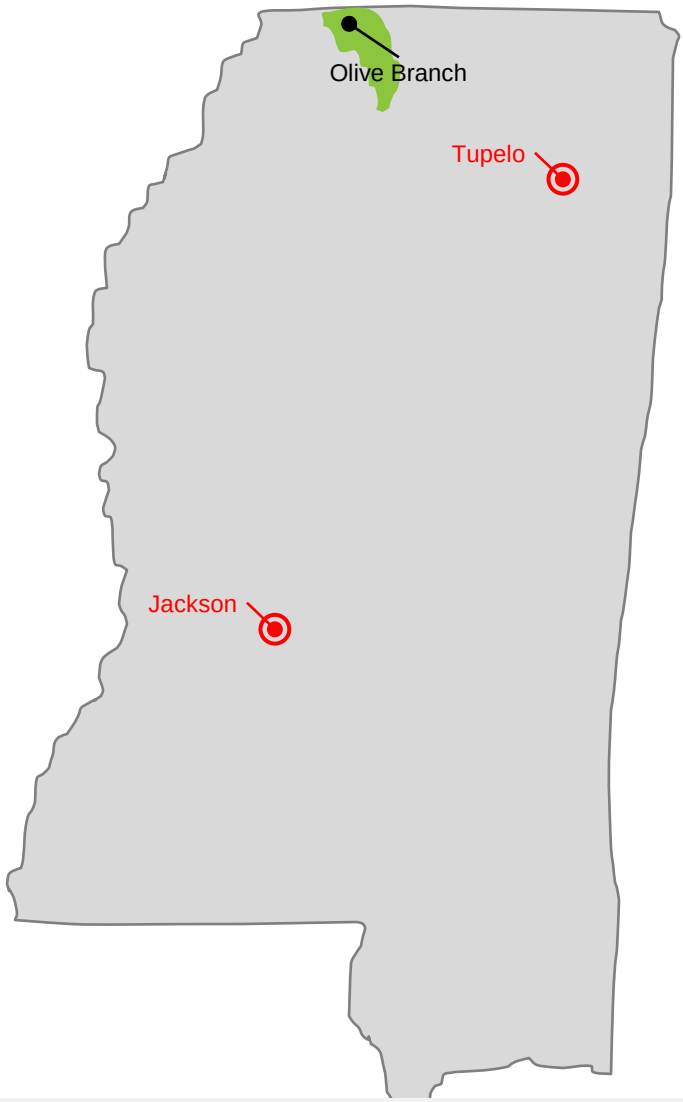
- *MO has 5 EVPL MENs spanning 4 LATAs and 271 wire-centers equipped for Ethernet*
- *LATAs in these MENs are 520, 521, 522 and 524*

MS

Where to Interconnect in Mississippi?

Olive Branch MEN

- **Olive Branch, MS**



Major City with EVPL
Major city outside territory
City with EVPL
City outside territory
EVPL not available

Summary:

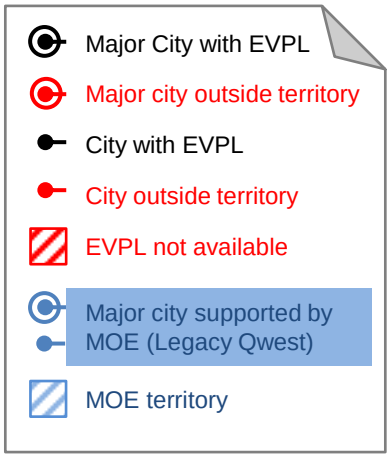
• MS has 1 EVPL MEN spanning 1 LATA and 3 wire-centers equipped for Ethernet
• LATA in this MEN is 468

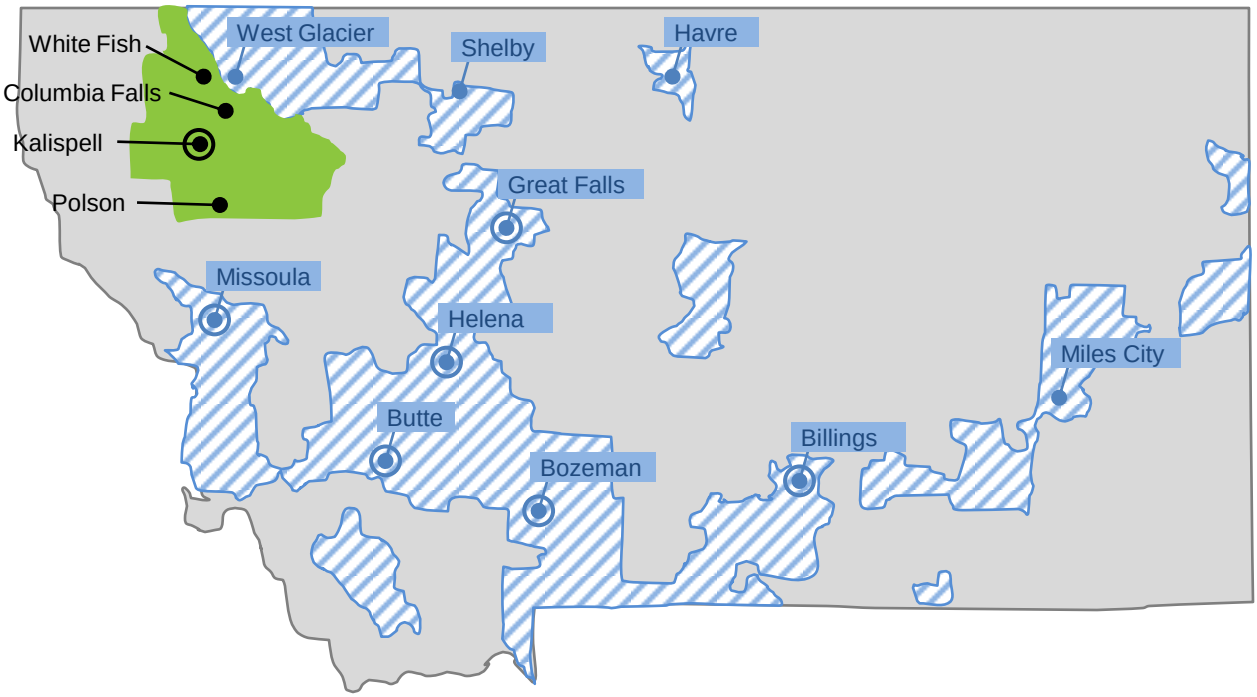
MT

Where to Interconnect in Montana?

Kalispell MEN

- **Kalispell, MT**





Summary:

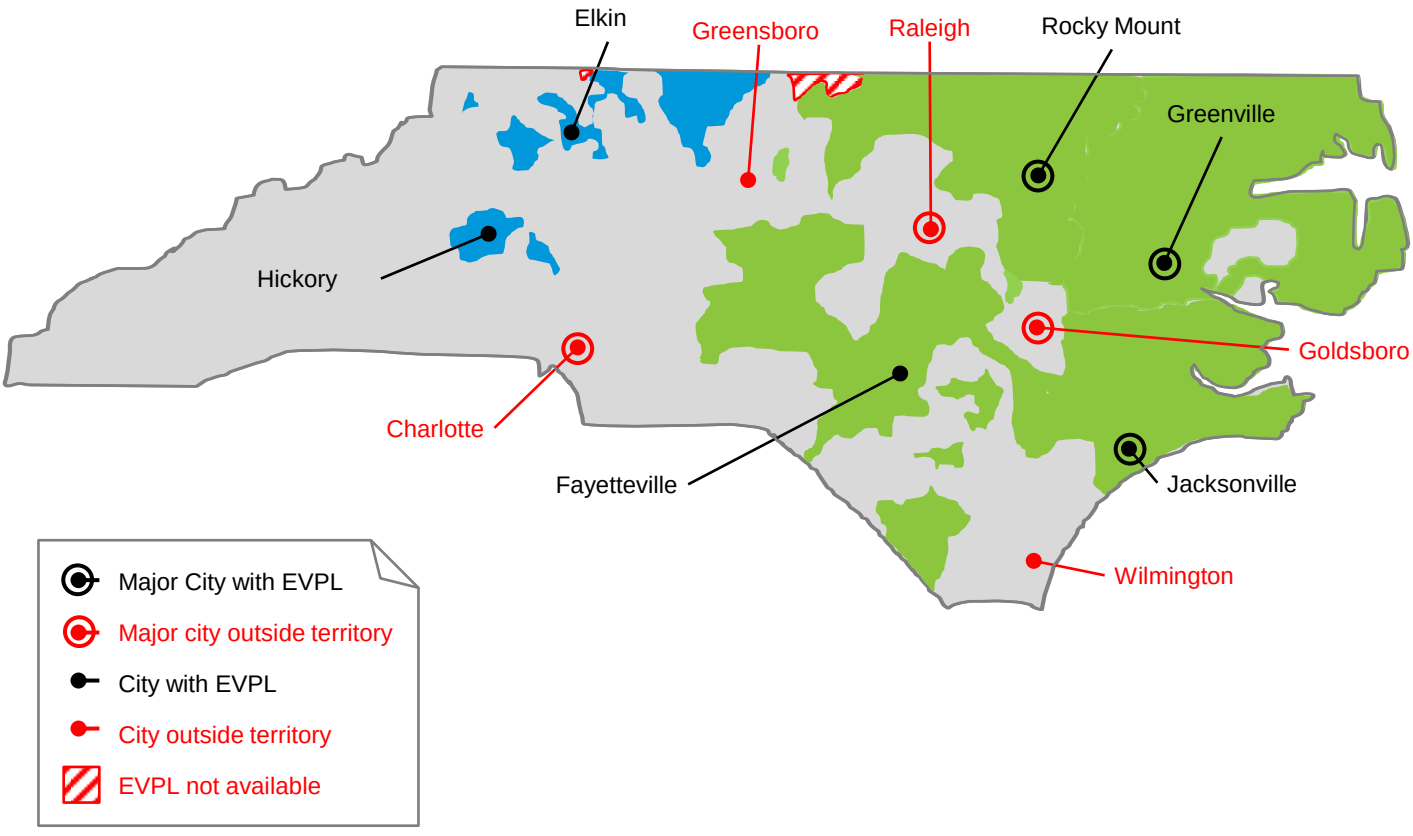
• MT has 1 EVPL MEN spanning 1 LATA and 14 wire-centers equipped for Ethernet

• LATA in this MEN is 648

NC

Where to Interconnect in North Carolina?

Rocky Mount MEN	Elkin/Hickory MEN
• Rocky Mount, NC	• Elkin, NC • Hickory, NC • Rocky Mount, NC✱ (✱ The Elkin/Hickory Cloud is Interconnected with Rocky Mount MEN BUT, due to latency concerns, it is best to connect to Elkin or Hickory directly)
Jacksonville Cloud	
Fayetteville Cloud	
Greenville Cloud	



Summary:

• NC has 2 EVPL MEN spanning 5 LATAs and 205 wire-centers equipped for Ethernet

• The Elkin/Hickory MEN is excluded from the Rocky Mount MEN because of extreme latency concerns although they are technically interconnected.

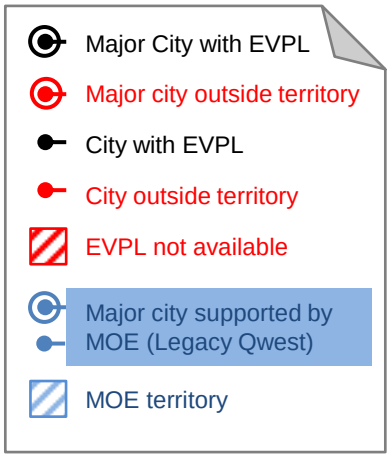
• LATAs in these MENs are 422, 424, 426, 949 and 951

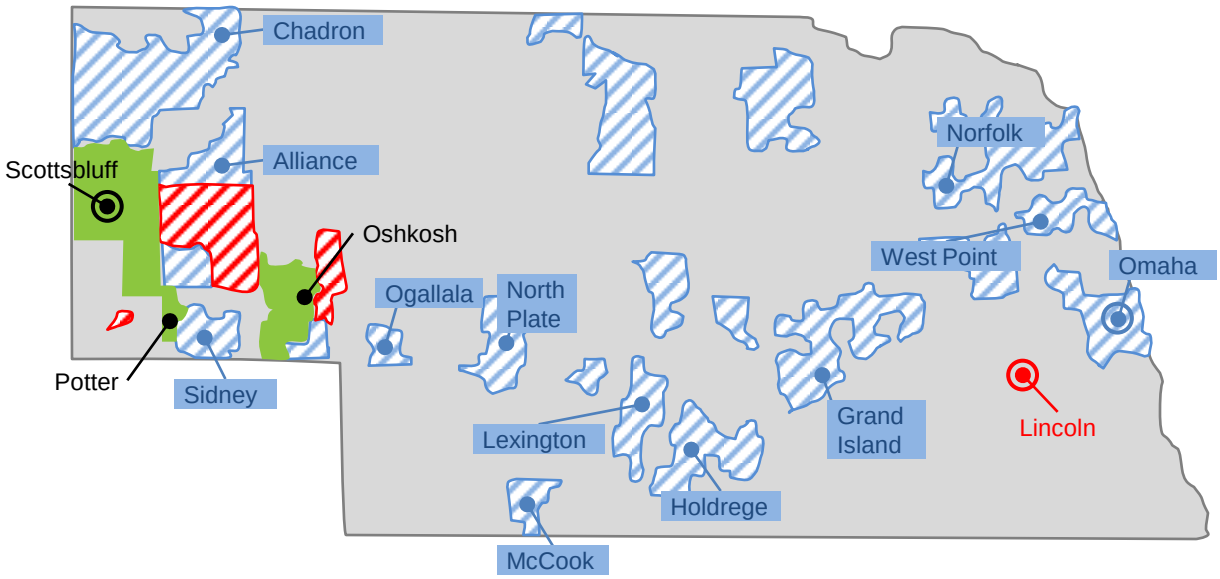
NE

Where to Interconnect in Nebraska?

Scottsbluff MEN

- **Scottsbluff, NE**





Summary:

• NE has 1 EVPL MEN spanning 1 LATA and 8 wire-centers equipped for Ethernet

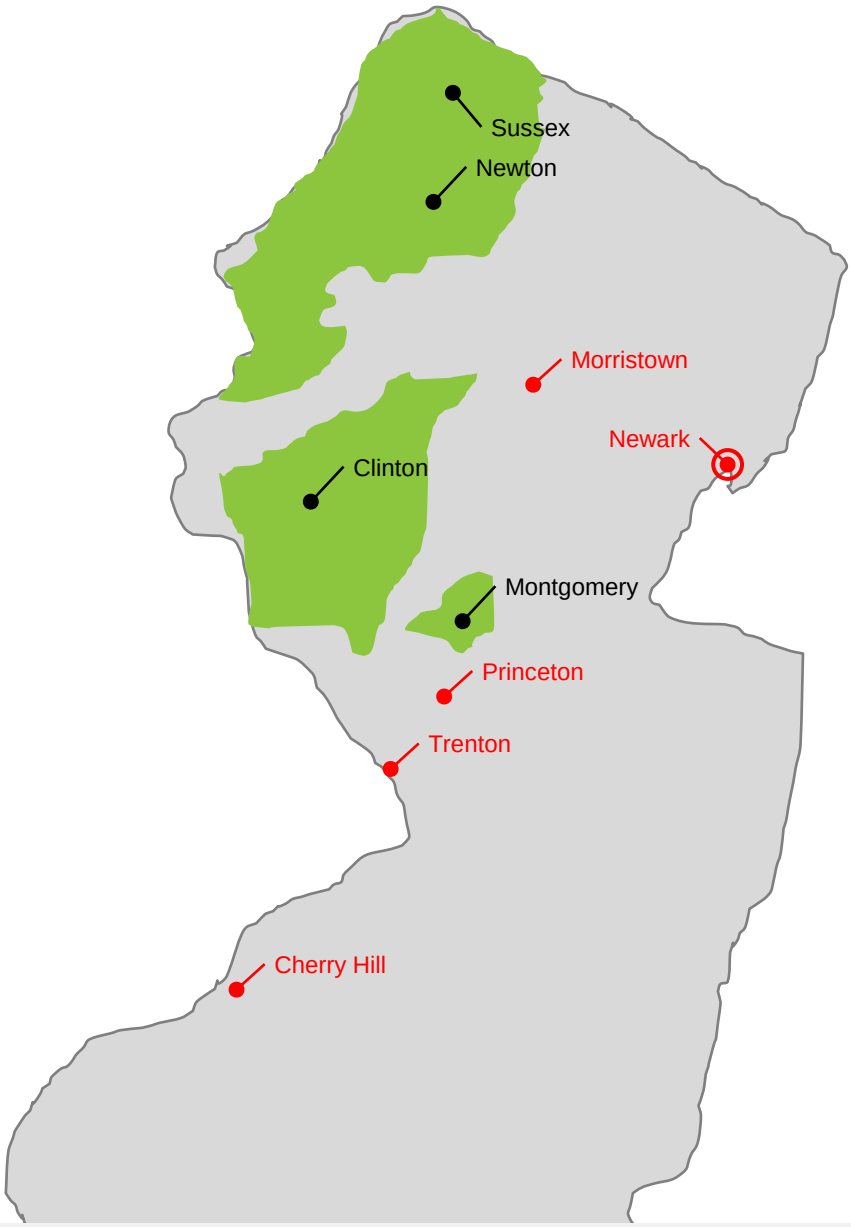
• LATA in this MEN is 646

NJ

Where to Interconnect in New Jersey?

Clinton MEN

- **Clinton, NJ**



Summary:

• NJ has 1 EVPL MEN spanning 1 LATA and 26 wire-centers equipped for Ethernet

• LATA in this MEN is 224

NV

Where to Interconnect in Nevada?

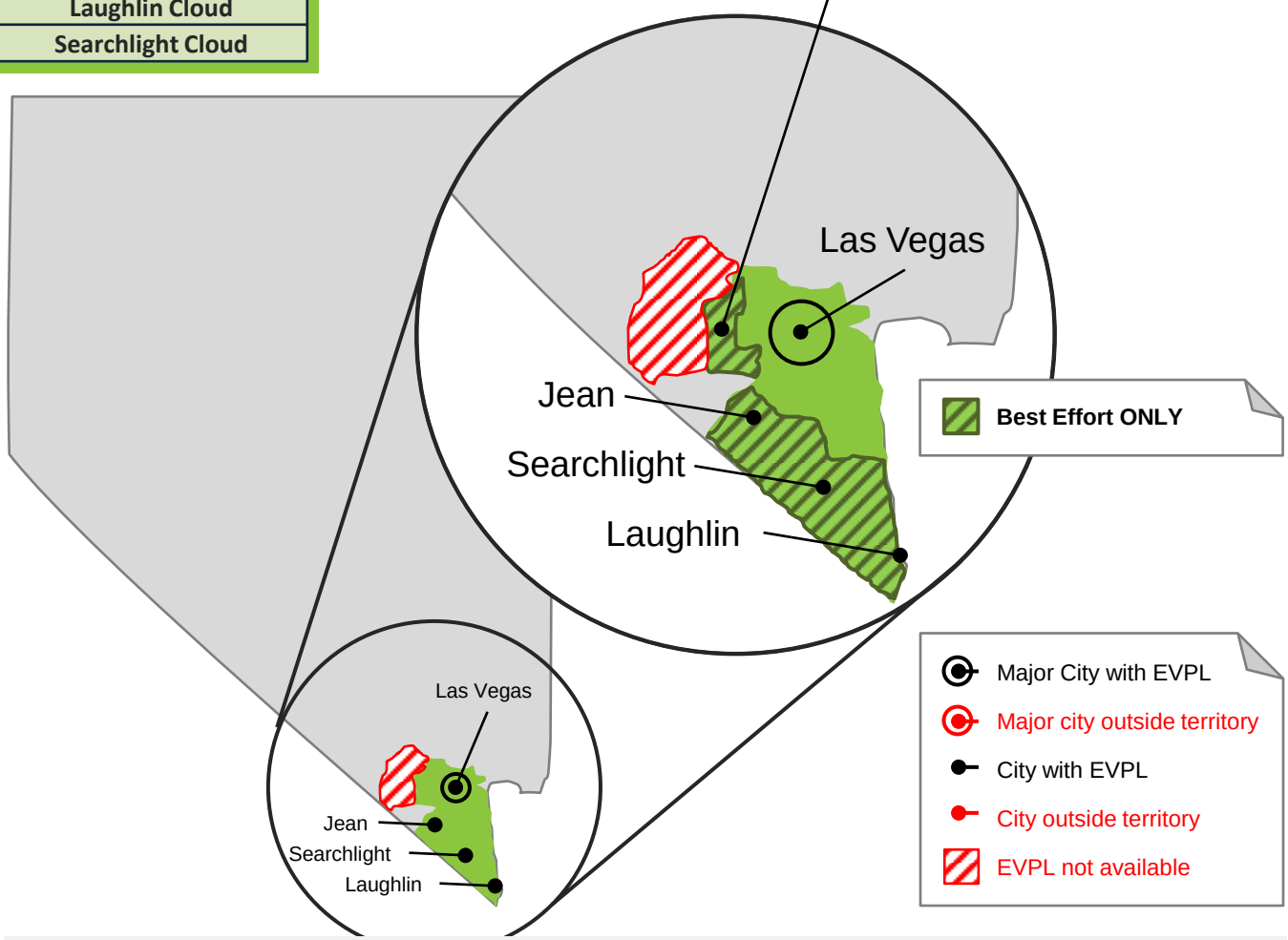
Las Vegas MEN

- **Las Vegas, NV**

Jean Cloud
Laughlin Cloud
Searchlight Cloud

BDMDNVXS

This wire center is part of Las Vegas MEN but due to lack of redundancy only Best Effort orders will be supported.



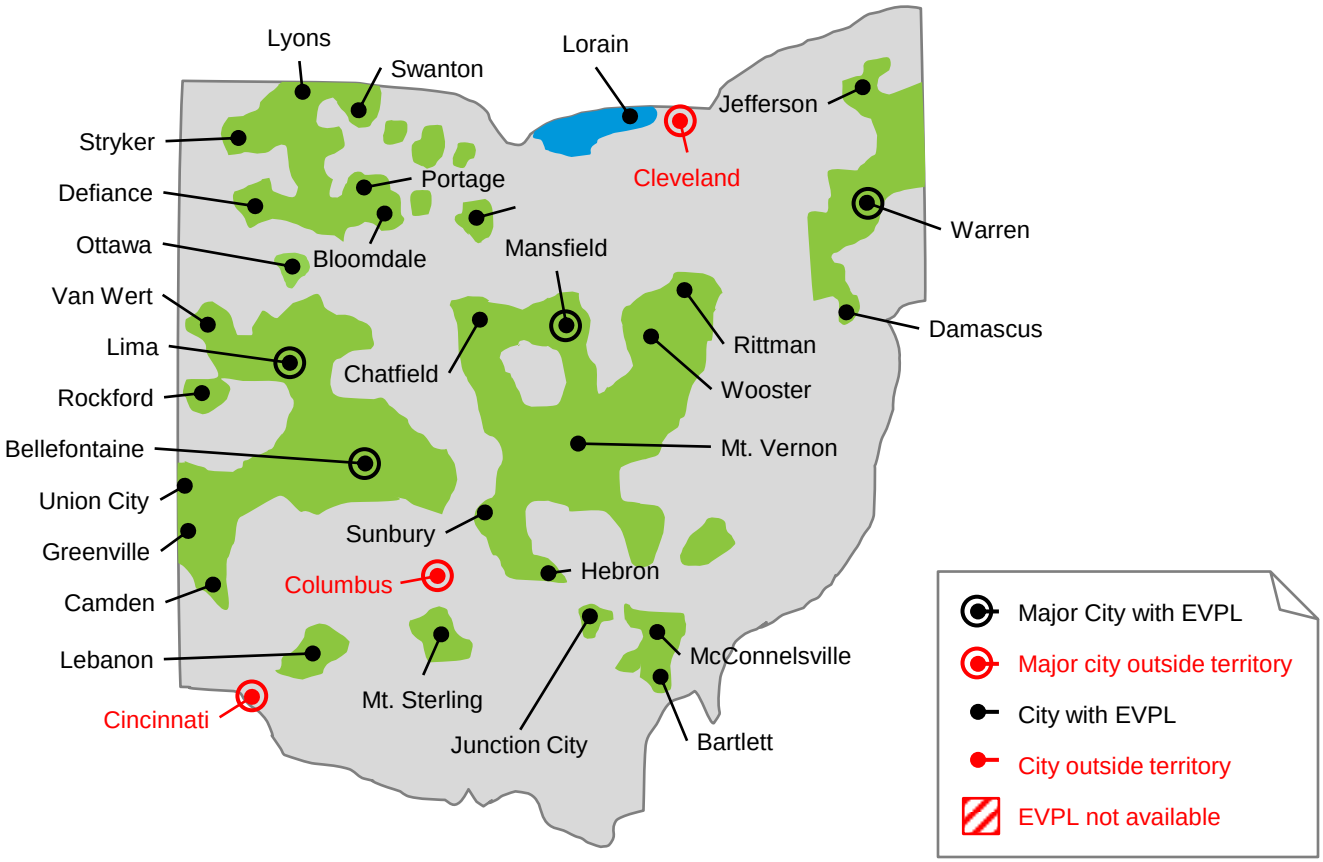
Summary:

- *NV has 1 EVPL MENs spanning 1 LATA and 22 wire-centers equipped for Ethernet*
- *LATA in this MEN is 721*

OH

Where to Interconnect in Ohio?

Mansfield MEN	Lorain MEN
• Mansfield, OH	• Lorain, OH
Bellefontaine Cloud	
Lima Cloud	
Warren Cloud	



Summary:

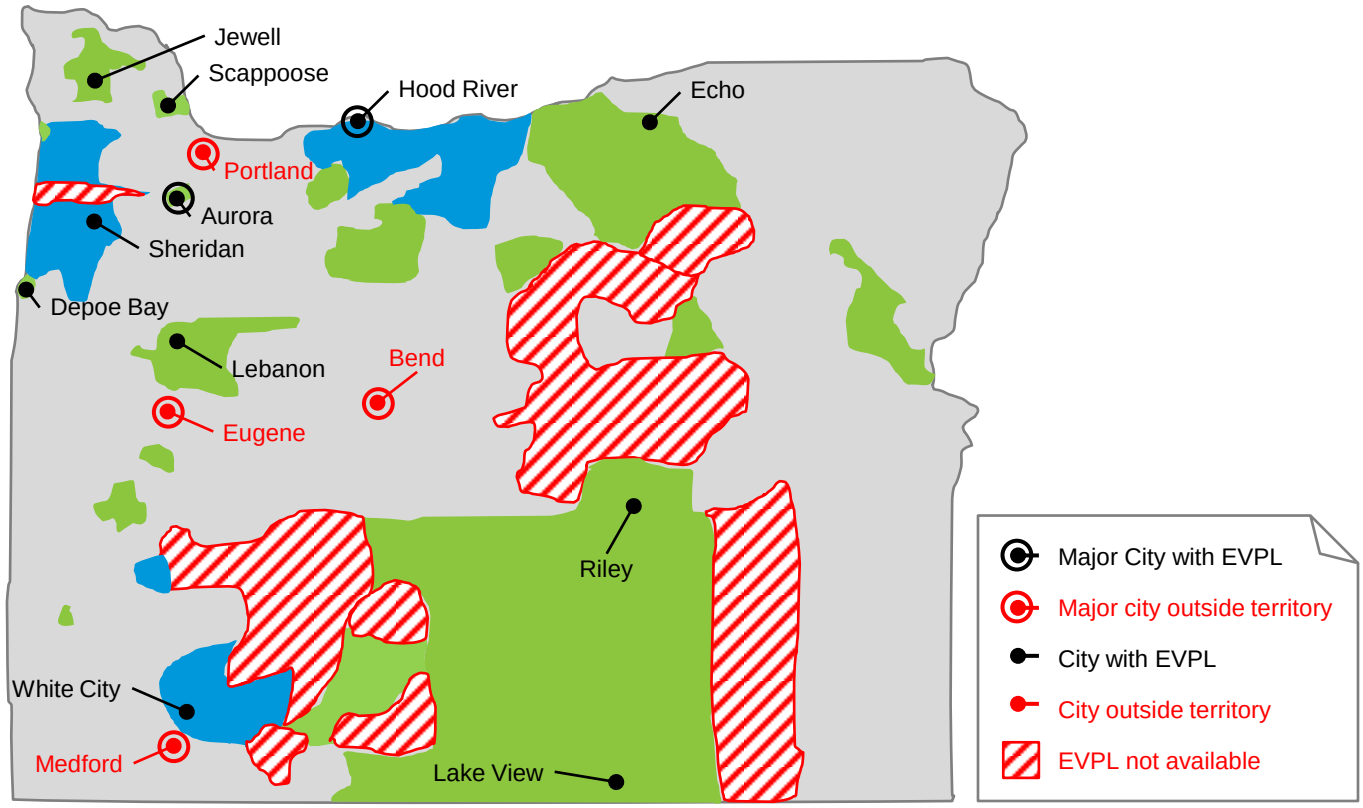
• OH has 2 EVPL MENs spanning 7 LATAs and 187 wire-centers equipped for Ethernet

• LATAs in these MENs are 320, 322, 324, 326, 328, 922 and 923

OR

Where to Interconnect in Oregon?

Aurora MEN	Hood River MEN
• Aurora, OR	• Hood River, OR
	Sheridan Cloud



Summary:

• OR has 2 EVPL MENs spanning 2 LATAs and 72 wire-centers equipped for Ethernet

• LATAs in these MENs are 670 and 672

PA

Where to Interconnect in New Pennsylvania?

Carlisle MEN

- **Carlisle, PA**
- **Butler, PA**

Butler Cloud
Bedford Cloud

Summary:

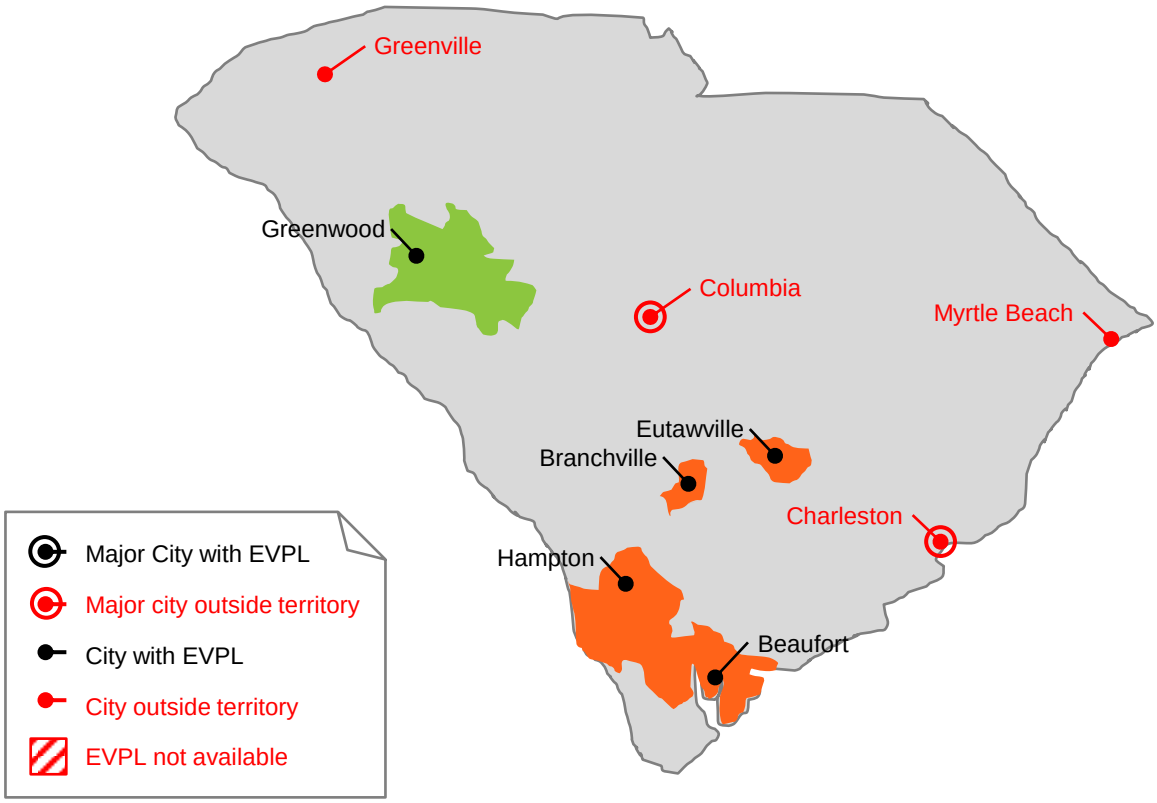
• PA has 1 EVPL MEN spanning 1 LATA and 26 wire-centers equipped for Ethernet

• LATA in this MEN is 224

SC

Where to Interconnect in South Carolina?

Greenwood MEN	Beaufort MEN
• Greenwood, SC	• Beaufort, SC



Summary:

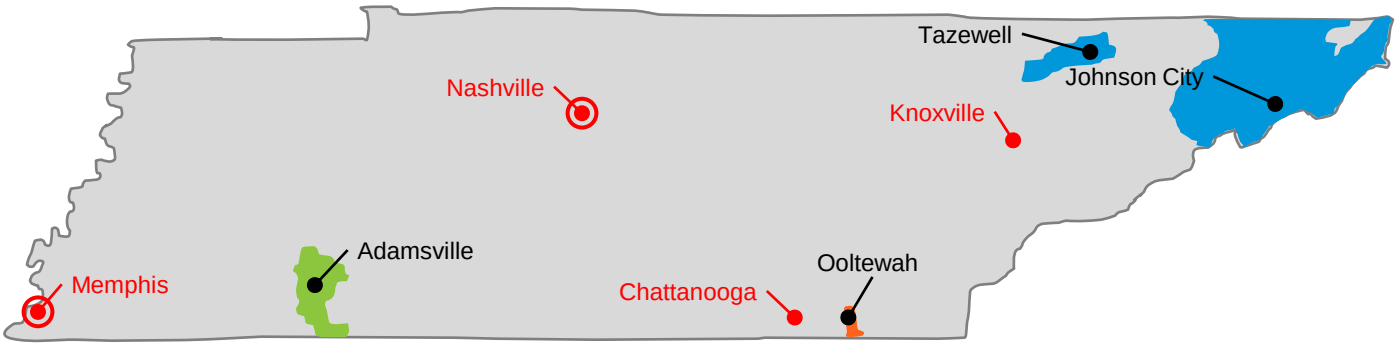
• SC has 2 EVPL MENs spanning 3 LATAs and 20 wire-centers equipped for Ethernet

• LATAs in these MENs are 430, 434 and 436

TN

Where to Interconnect in Tennessee?

Adamsville MEN	Ooltewah MEN	Johnson City MEN
• Adamsville, TN	• Ooltewah, TN	• Johnson City, TN
		New Tazewell Cloud



- Major City with EVPL
- Major city outside territory
- City with EVPL
- City outside territory
- EVPL not available

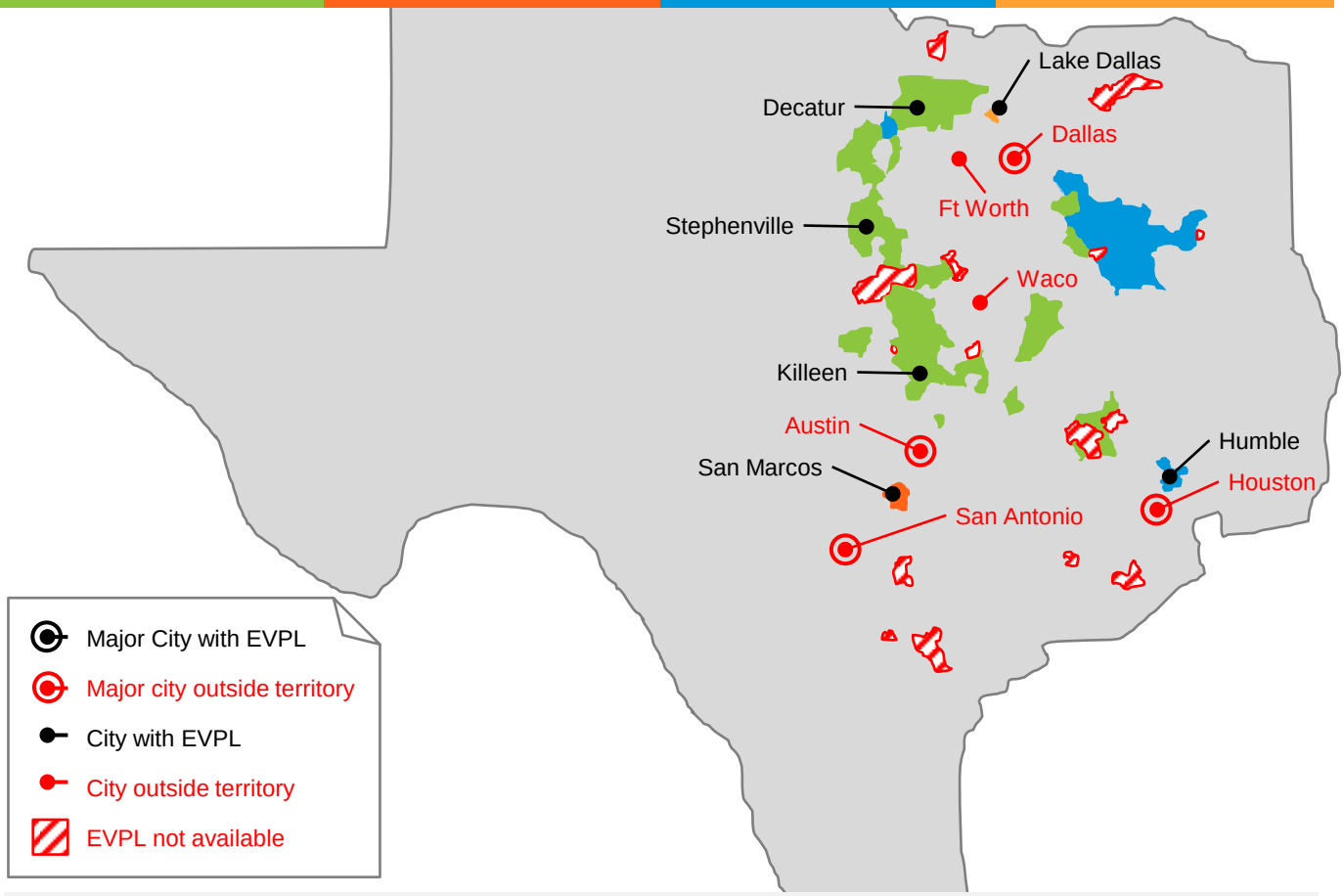
Summary:

- *TN has 3 EVPL MENs spanning 4 LATAs and 31 wire-centers equipped for Ethernet*
- *The Johnson City MEN extends into Virginia. (See VA Map)*
- *LATAs in these MENs are 468, 472, 474 and 956*

TX

Where to Interconnect in Texas?

Killeen MEN	San Marcos MEN	Humble MEN	Lake Dallas MEN
• Killeen, TX	• San Marcos, TX	• Humble, TX	• Lake Dallas, TX



Summary:

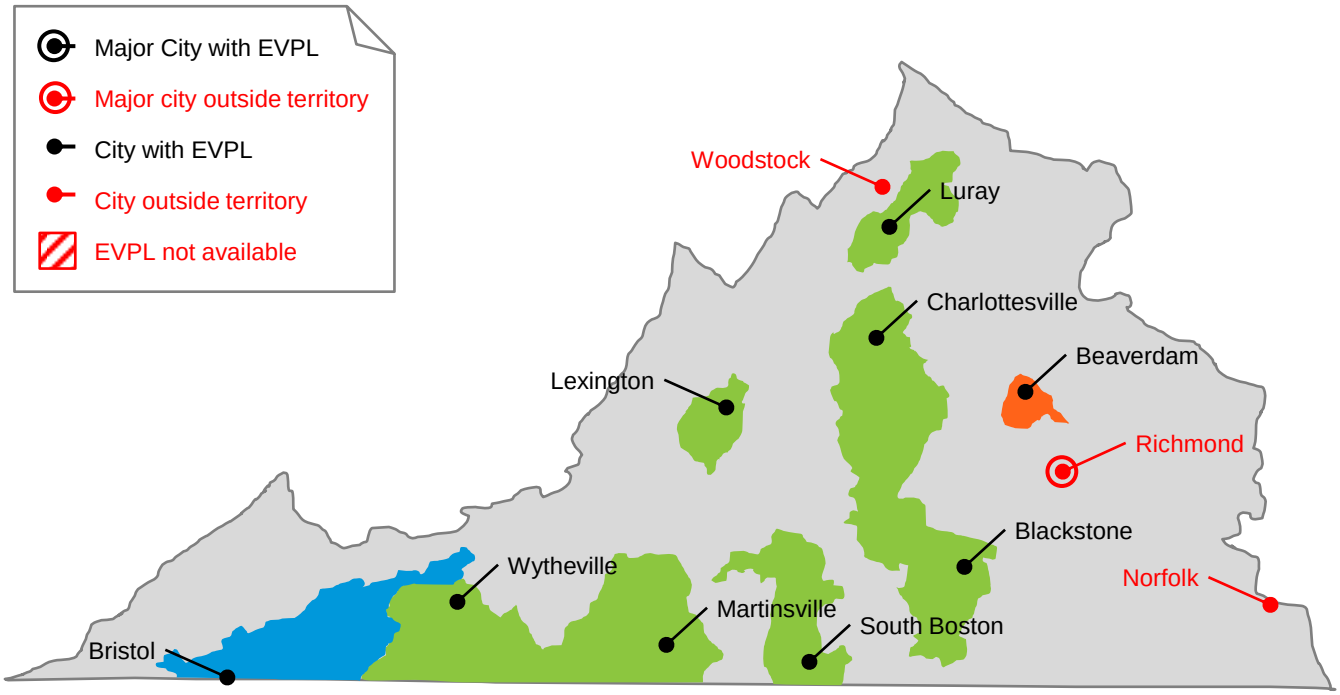
• TX has 4 EVPL MENs spanning 6 LATAs and 90 wire-centers equipped for Ethernet

• LATAs in these MENs are 552, 554, 556, 558, 560, 564

VA

Where to Interconnect in Virginia?

Charlottesville MEN	Beaverdam MEN	Johnson City MEN
• Charlottesville, VA	• Beaverdam, VA	• Johnson City, TN
Martinsville Cloud Wytheville Cloud		(✱ This is a Tennessee MEN. See TN Map for more details)



Summary:

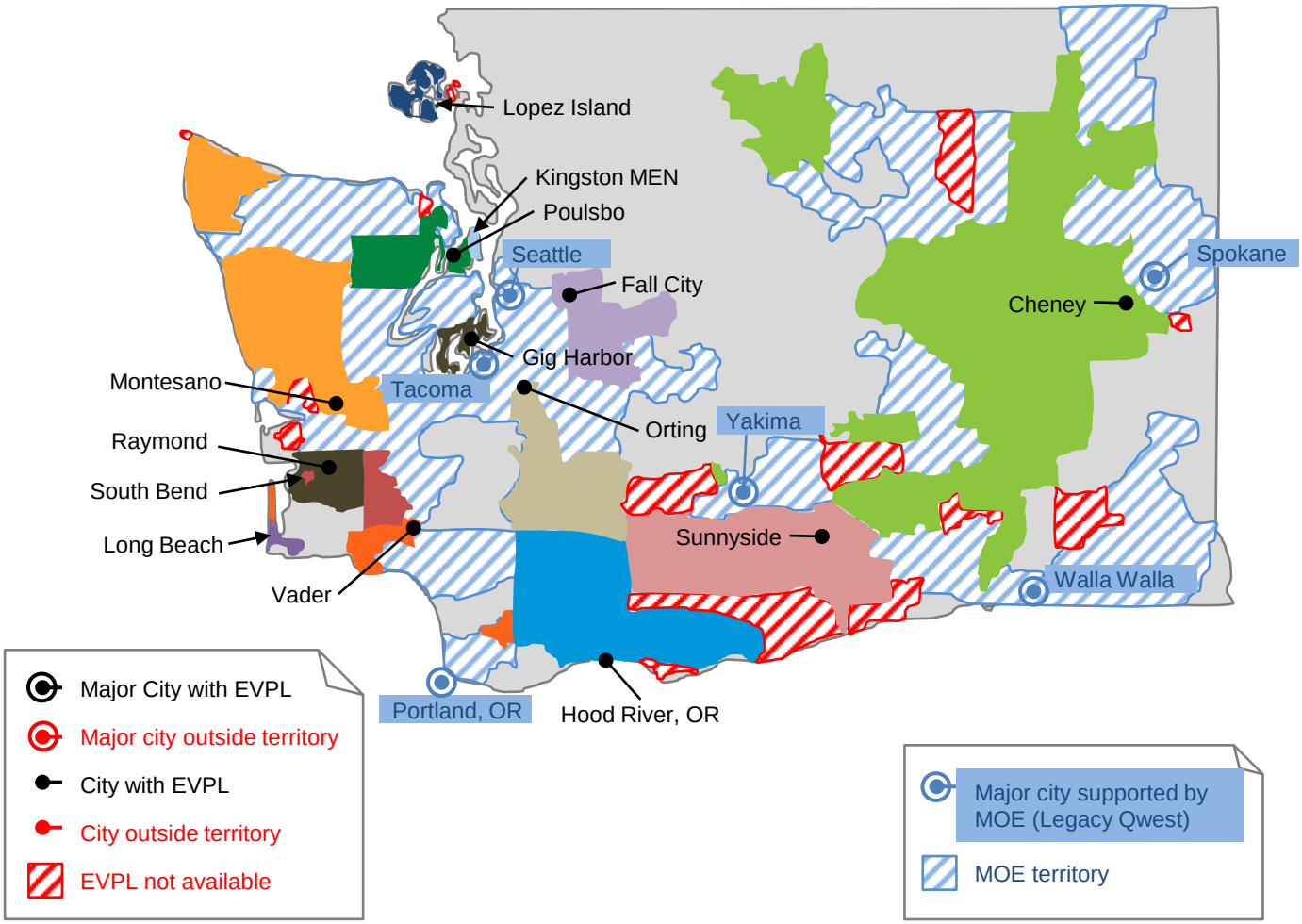
• VA has 3 EVPL MENs spanning 6 LATAs and 90 wire-centers equipped for Ethernet

• LATAs in these MENs are 250, 928, 956, 246, 244 and 248

WA

Where to Interconnect in Washington?

Spokane-Cheney MEN • Cheney, WA	**Vader MEN** • Vader, WA	**Vader-Sttl MEN** • South Bend, WA	**Gig Harbor MEN** • Gig Harbor, WA
Poulsbo MEN • Poulsbo, WA	**Montesano MEN** • Montesano, WA	**Lopez MEN** • Lopez Island, WA	**Fall City MEN** • Fall City, WA
Spokane-Sunnyside MEN • Sunnyside, WA	**Orting MEN** • Orting, WA	**Hood River MEN** • Hood River, OR	**Aurora MEN** • Aurora, OR



Summary:

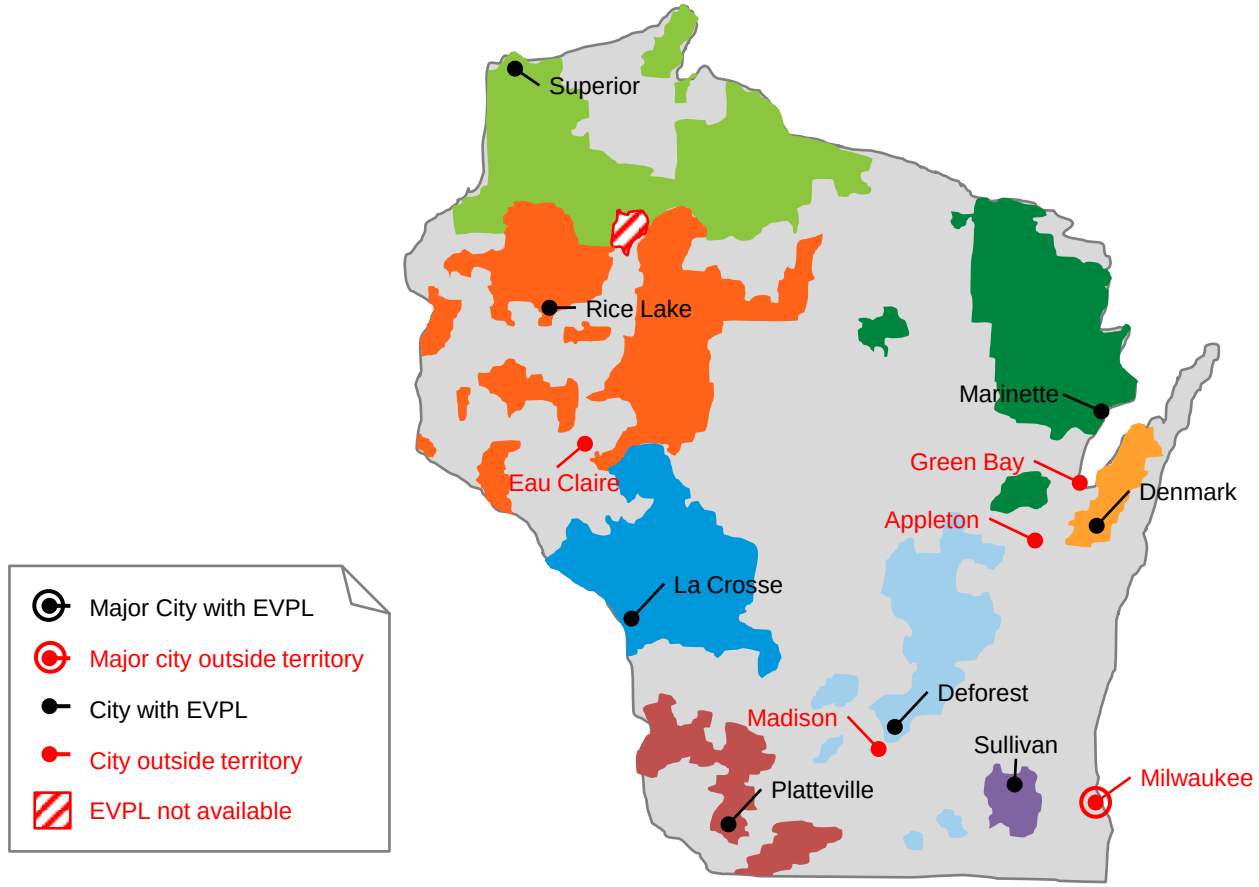
• WA has 13 EVPL MENs spanning 3 LATAs and 93 wire-centers equipped for Ethernet

• LATAs in these MENs are 672, 674 and 676

WI

Where to Interconnect in Wisconsin?

Superior MEN	Rice Lake MEN	La Crosse MEN	Sullivan MEN
• Superior, WI	• Rice Lake, WI	• La Crosse, WI	• Sullivan, WI
Hayward Cloud		Tomah Cloud	
		Holmen Cloud	
Marinette MEN	**Denmark MEN**	**Deforest MEN**	**Platteville MEN**
• Marinette, WI	• Denmark, WI	• Deforest, WI	• Platteville, WI
		Baraboo Cloud	Benton Cloud
			Boscobel Cloud
			PR DU CHIEN Cloud



Summary:

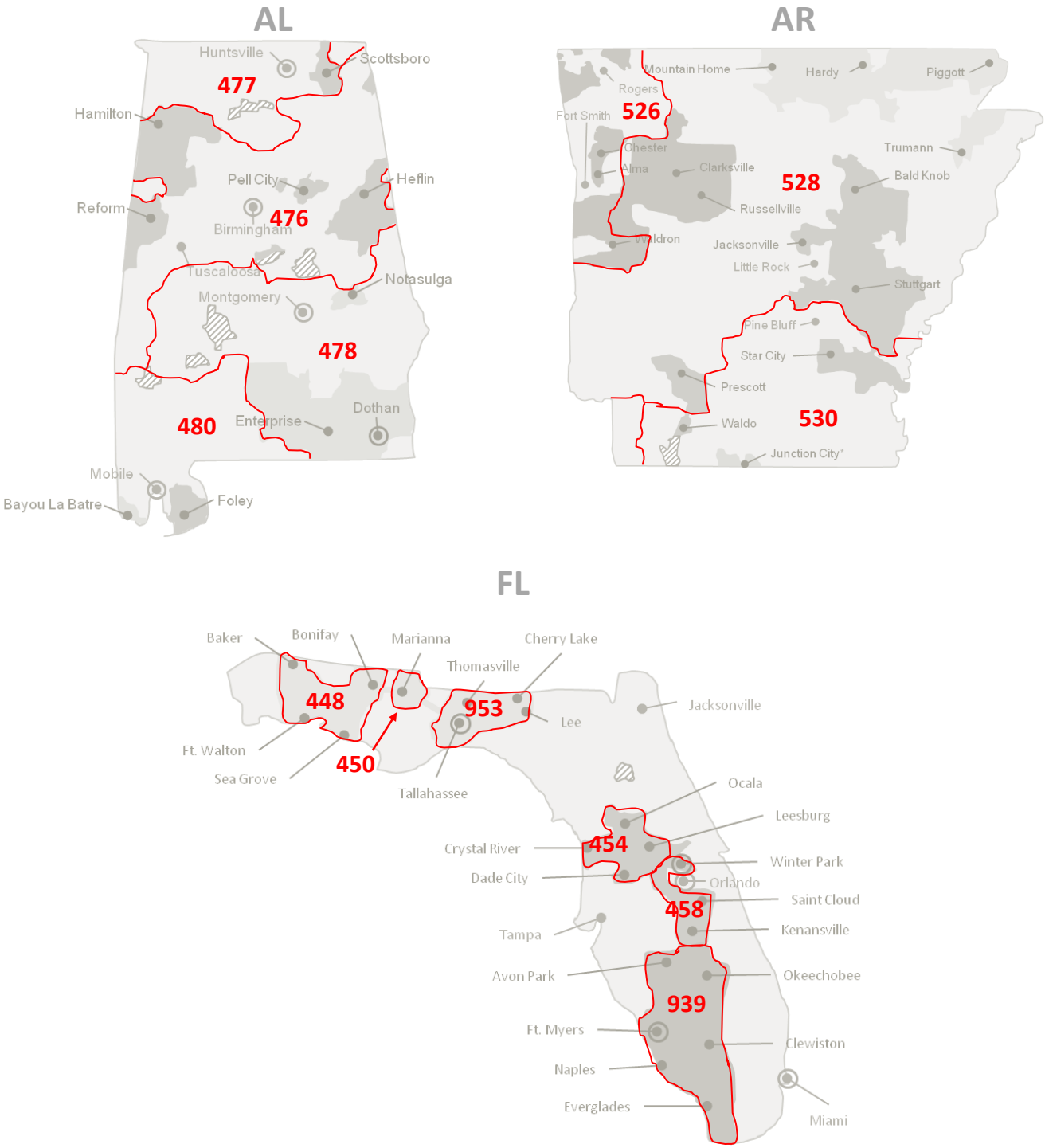
• WI has 8 EVPL MENs spanning 4 LATAs and 202 wire-centers equipped for Ethernet

• LATAs in these MENs are 350, 352, 354 and 356

Appendix

Ethernet Virtual Private line Interconnect Guide

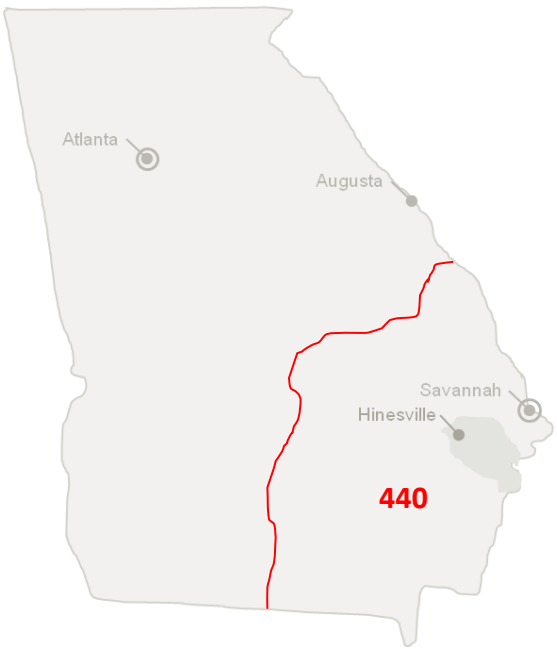
LATAs *(Only LATAs that cover EVPL MENs are included)*



Ethernet Virtual Private line Interconnect Guide

LATAs *(Only LATAs that cover EVPL MENs are included)*

GA



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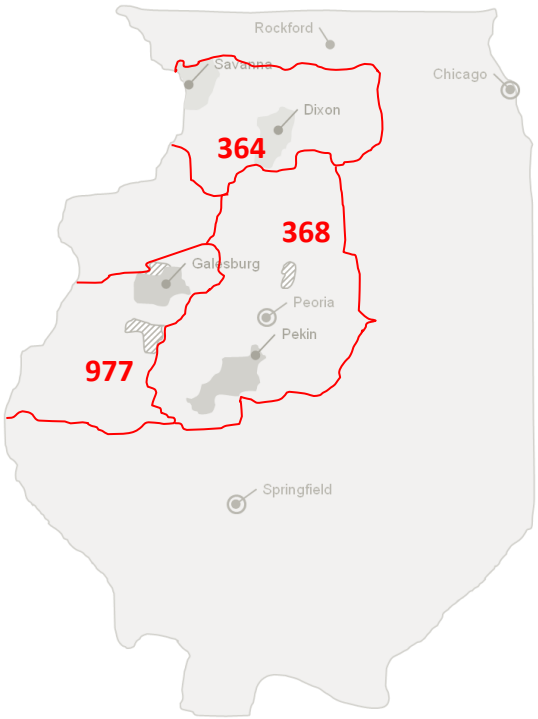

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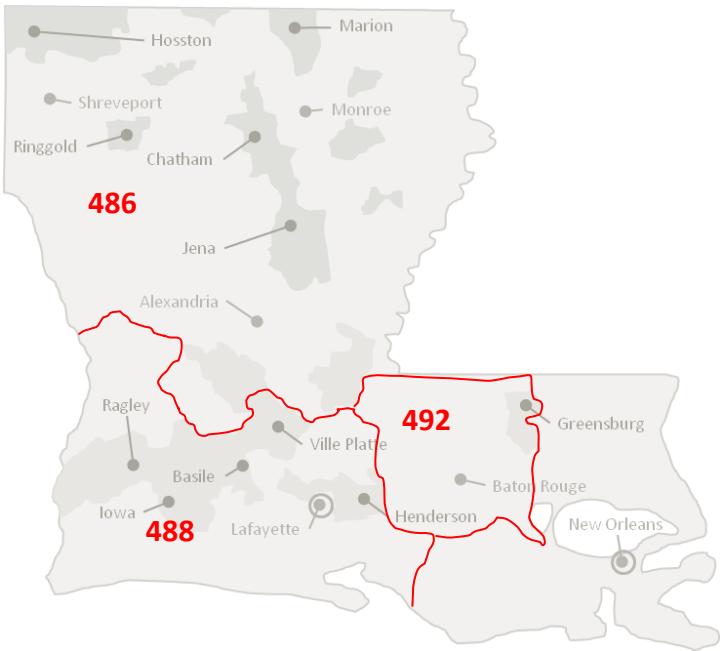

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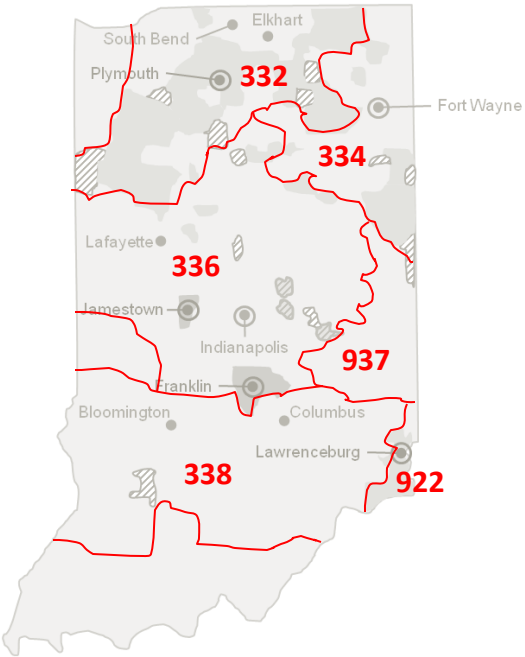

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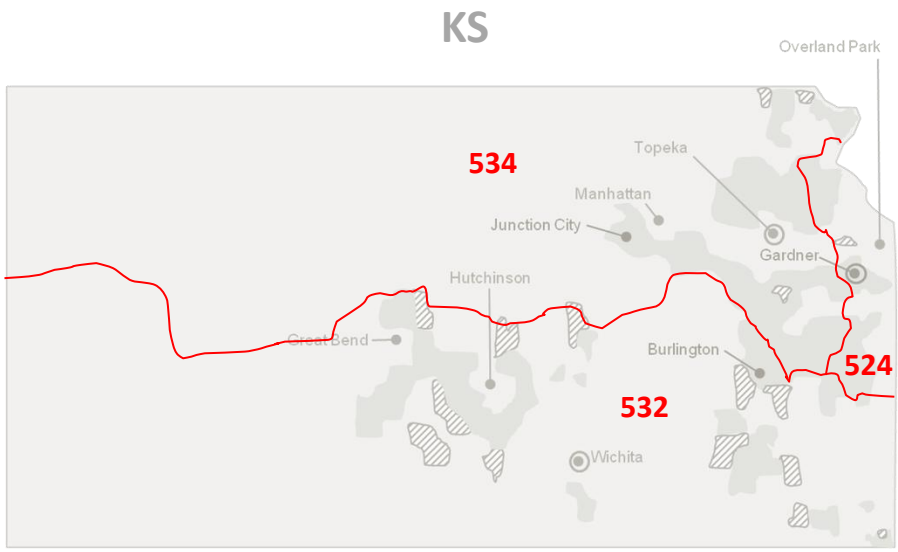

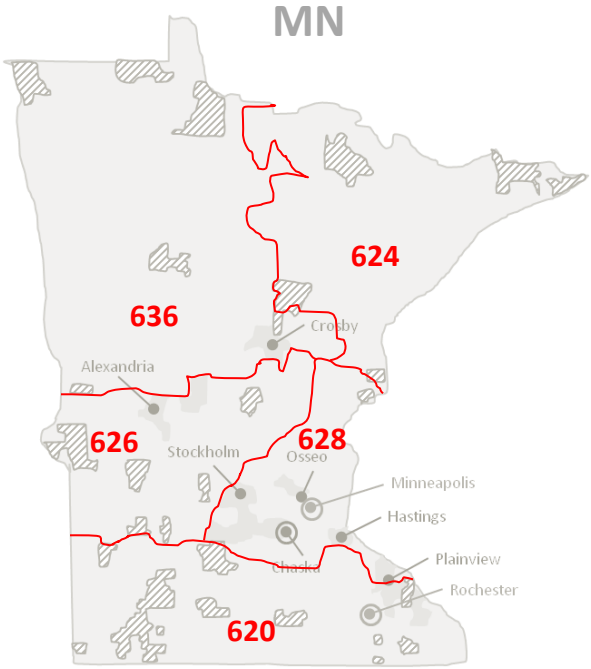

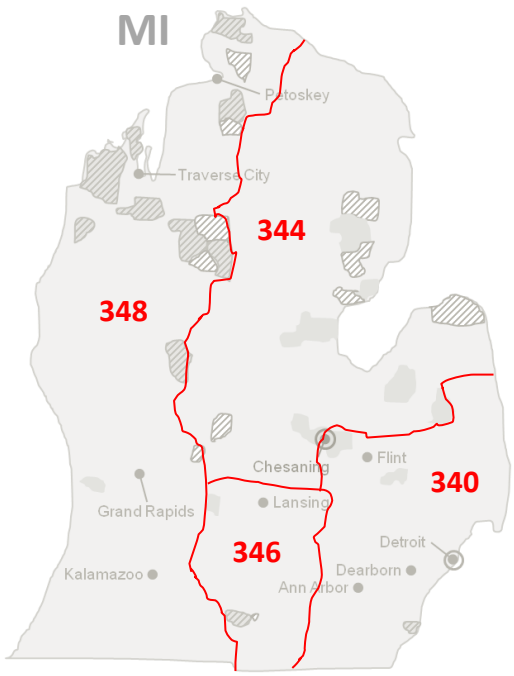

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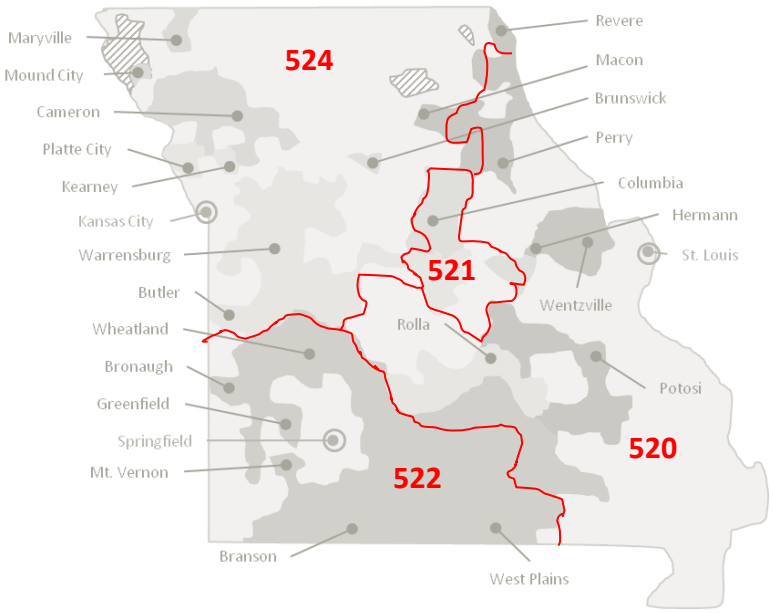
MO



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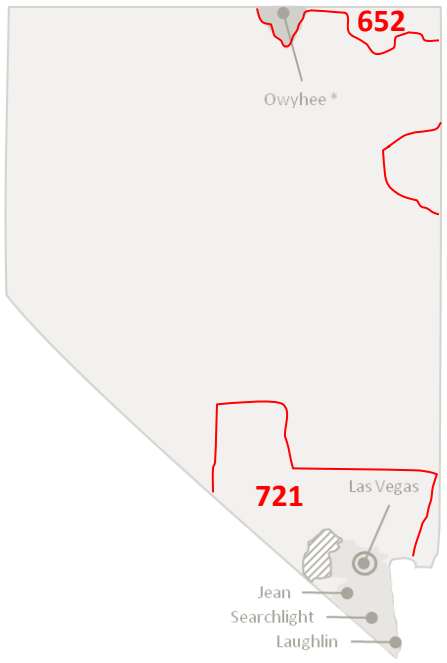

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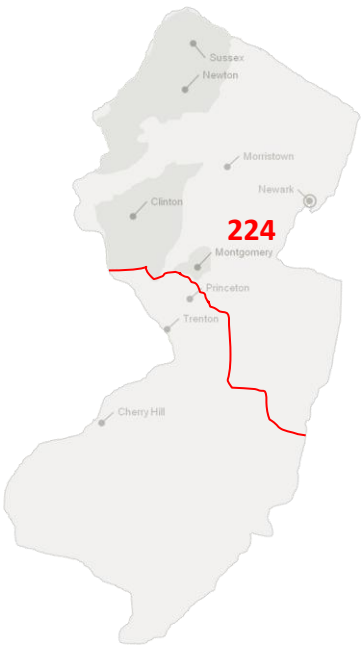

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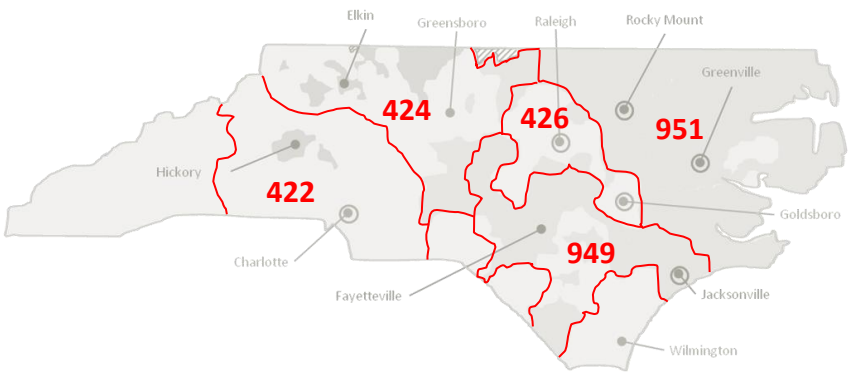

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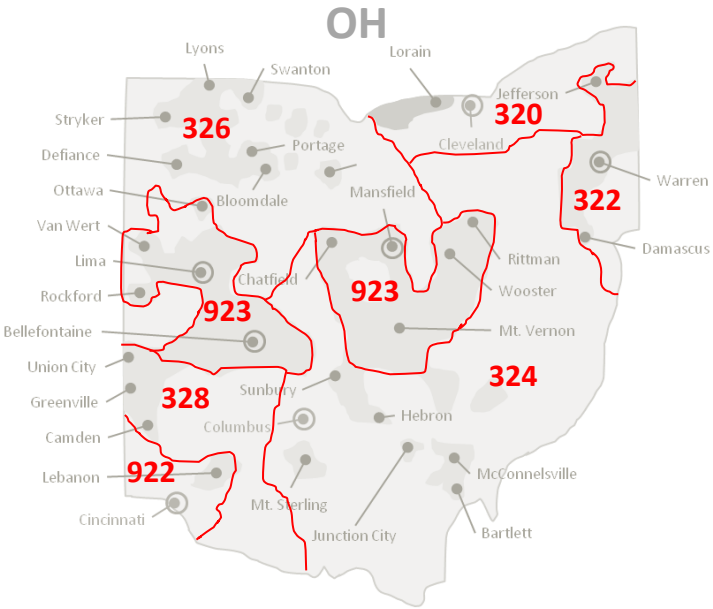

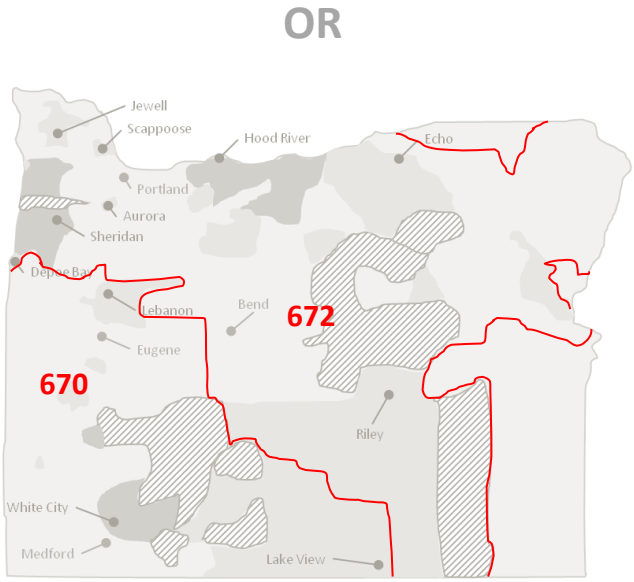

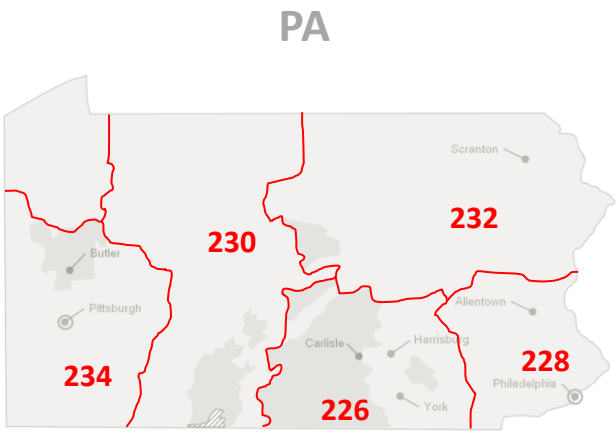

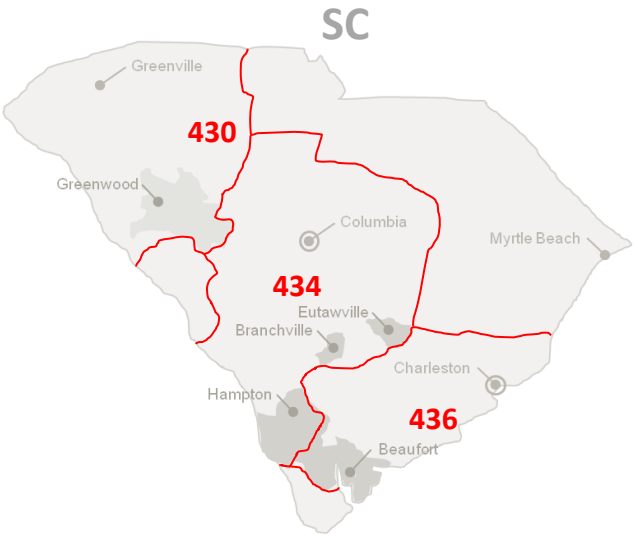

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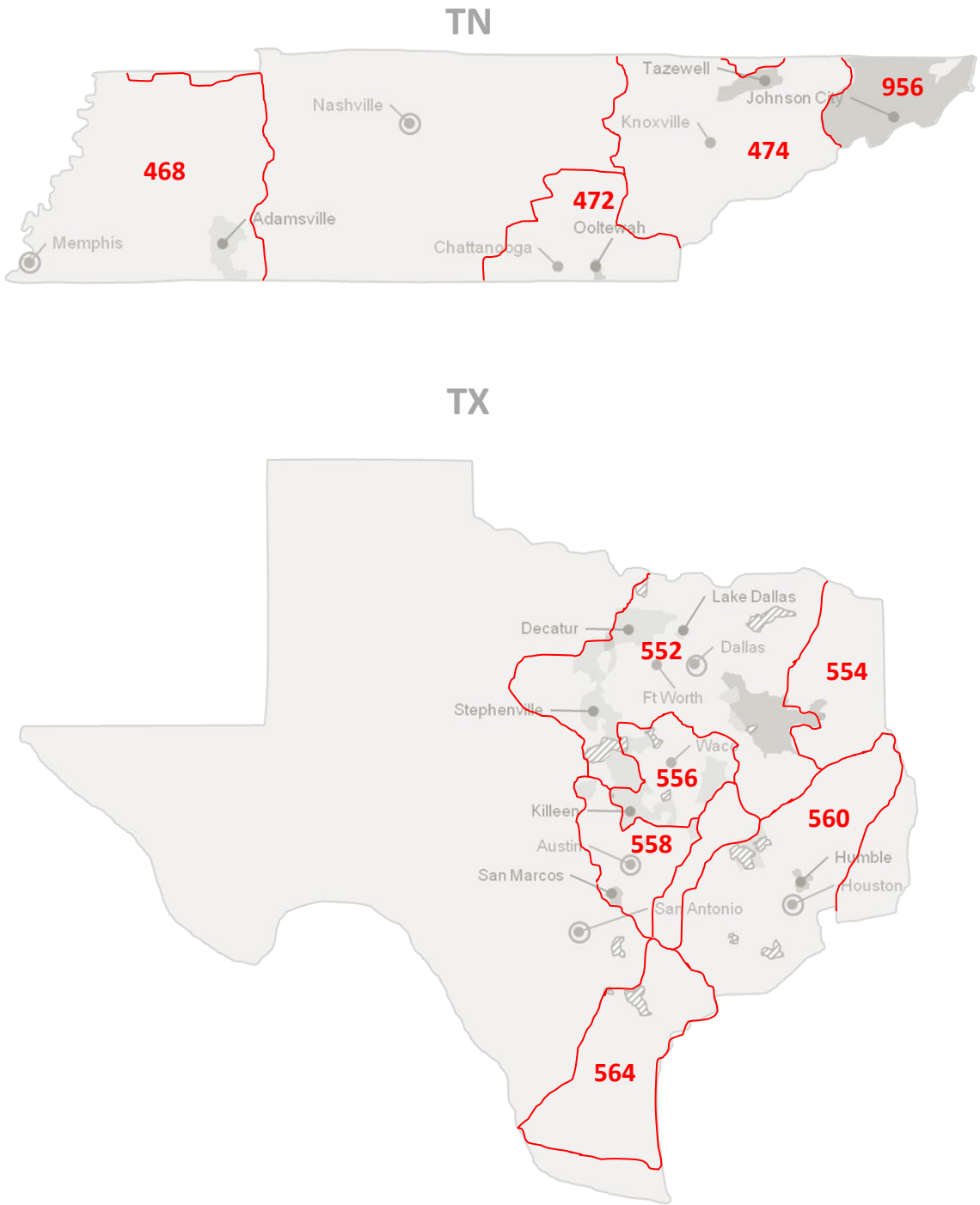

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