Wholesale Carrier EVPL Interconnect Guide

Updated October 30, 2020

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.

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About Carrier Interconnection

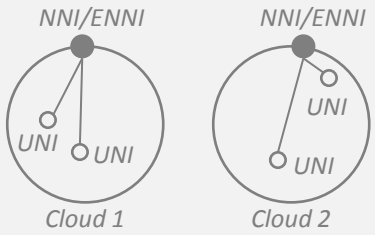
What is Carrier Interconnection?
Wholesale Carrier customers desire to buy Local Access from ILECs such as CenturyLink to complete their network solutions usually on their own IP networks. In order to use Local Access using switched Ethernet, customers must first purchase an "Aggregation UNI" (User Network 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.

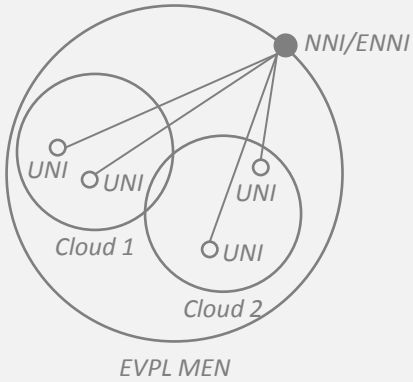
When evaluating whether and where to buy Local Access Interconnects, these carriers must develop their own business cases that demonstrate the benefits in investing in such an Aggregation UNI or NNI/ENNI. They must often consider the market(s) served, the market size, the potential business, and then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

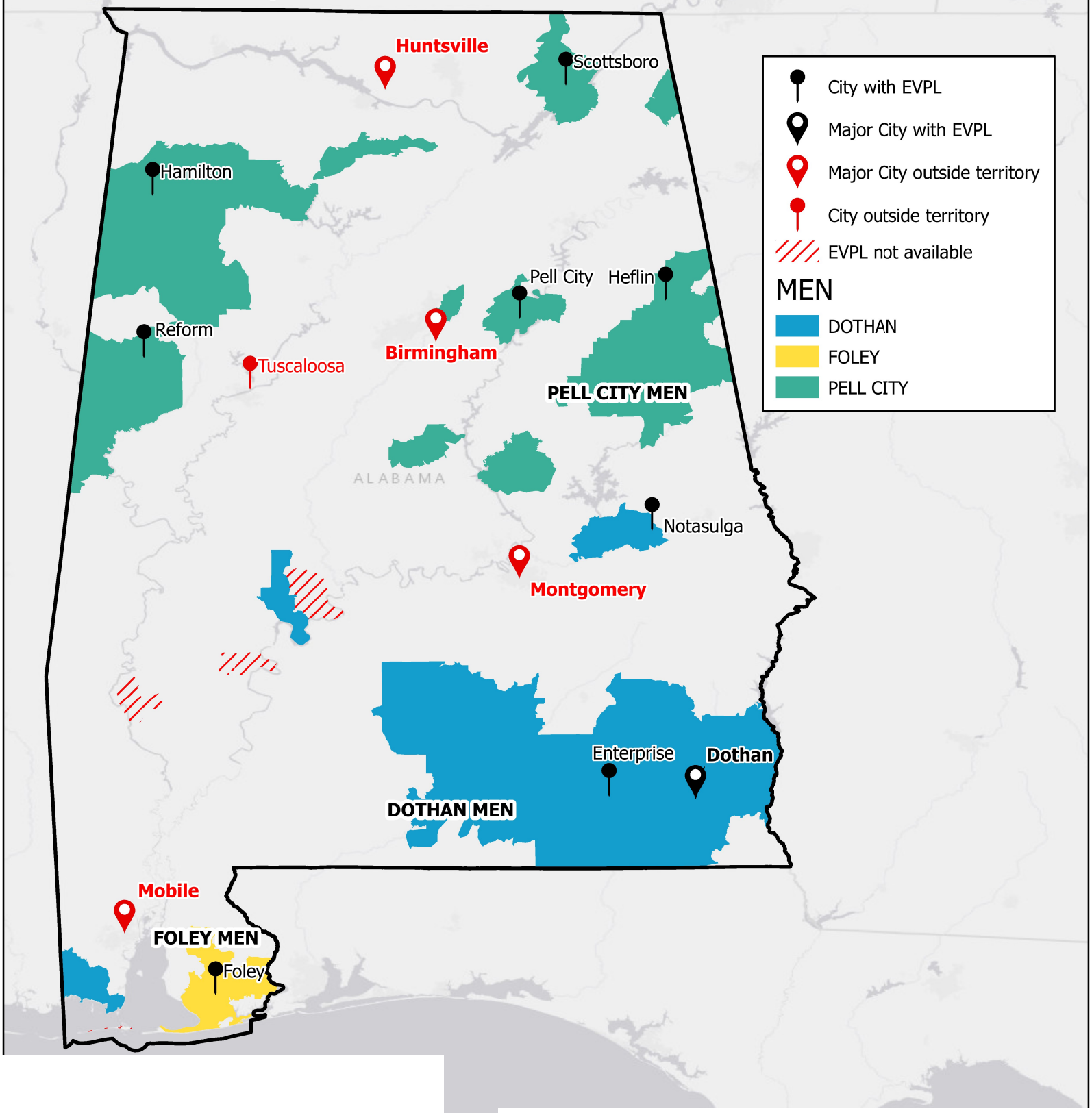




Where to Interconnect in Alabama

Dothan MEN, Foley MEN & Pell City MEN

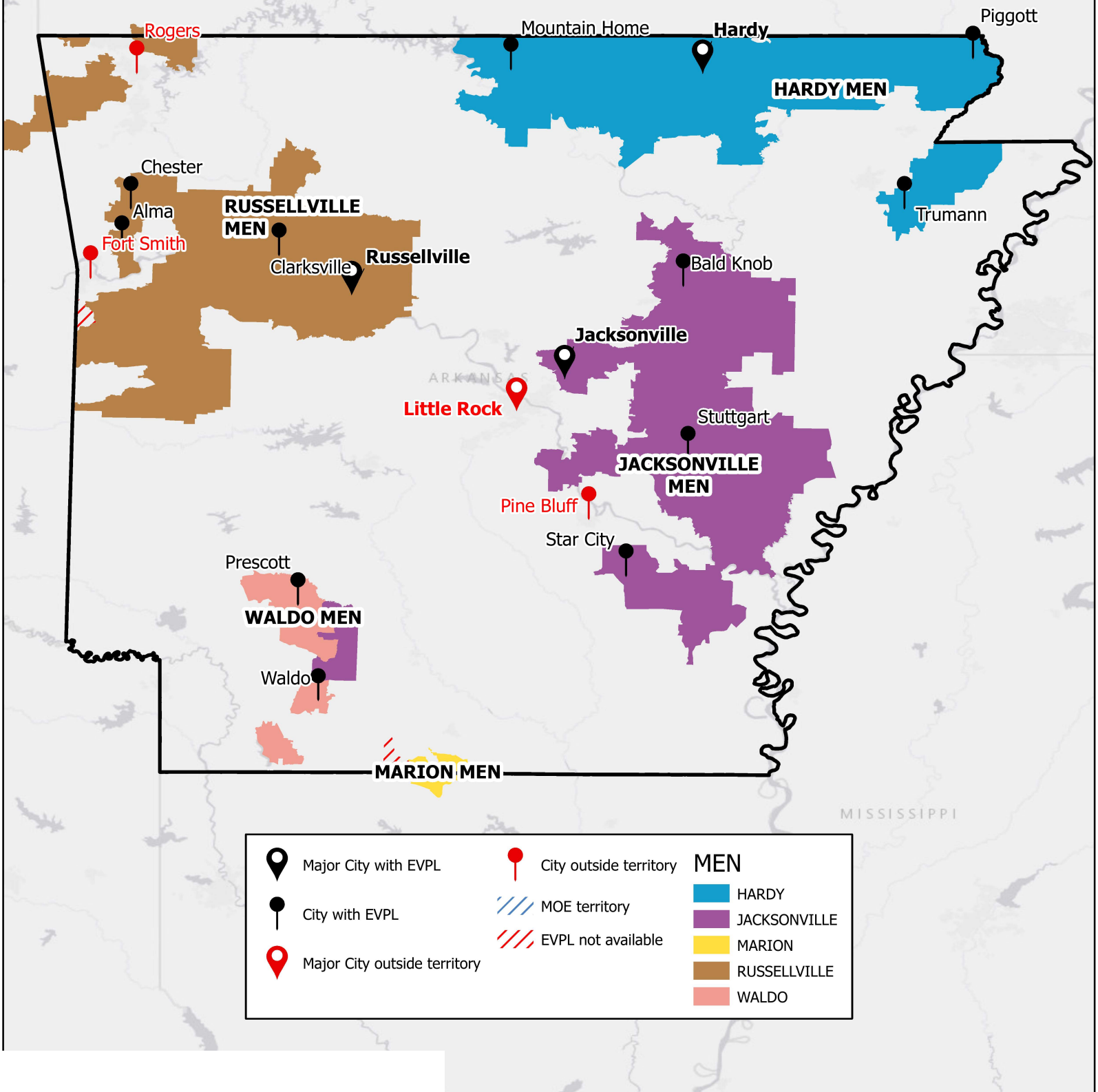
Summary:
-Alabama has 3 EVPL MENs spanning 4 LATAs and 100 wire-centers equipped for Ethernet
-LATAs in these MENs are 476, 477, 478, and 480



Where to Interconnect in Arkansas

Hardy MEN, Jacksonville MEN, Marion MEN, Russellville MEN & Waldo MEN

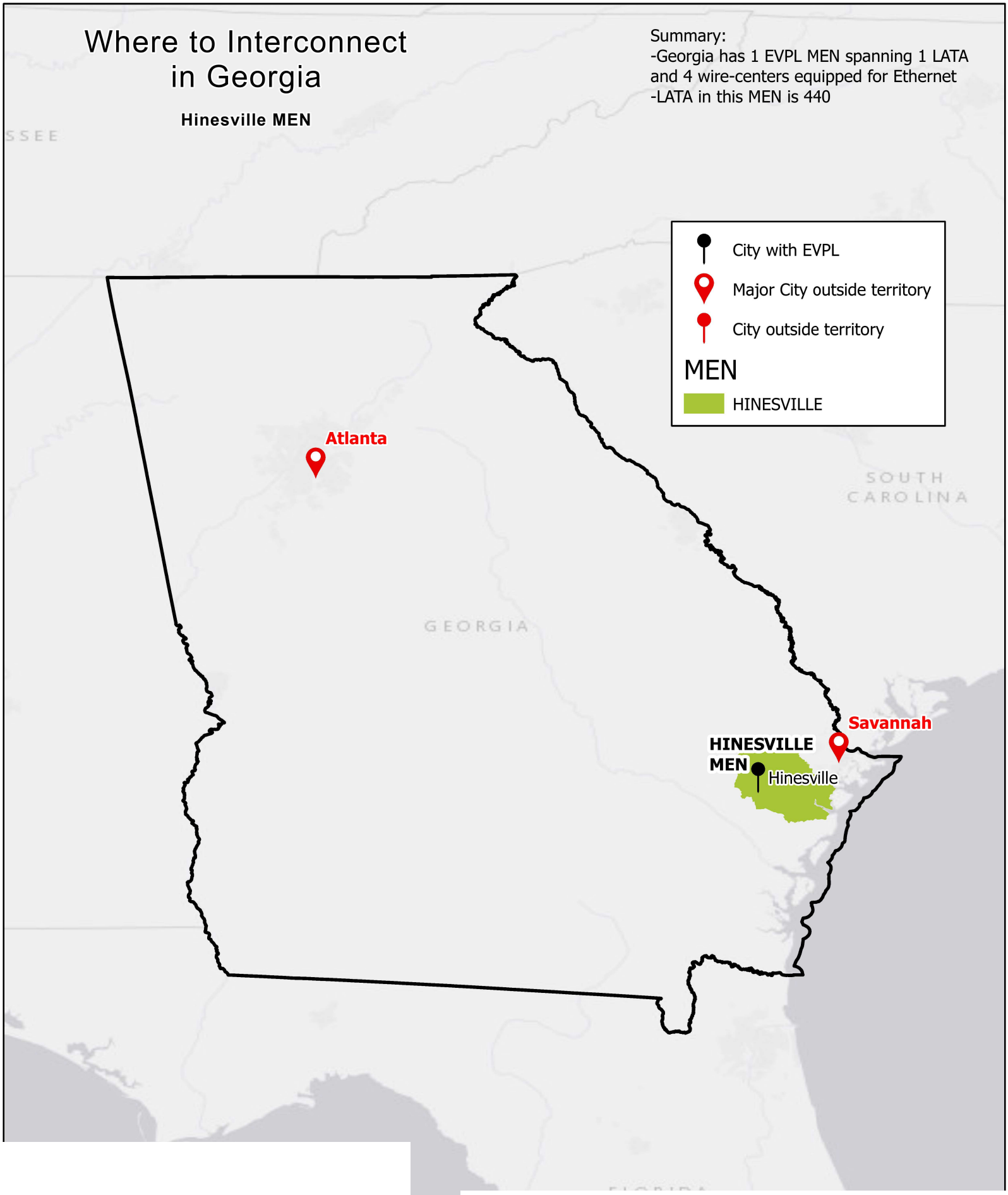
Summary:
-Arkansas has 5 EVPL MENs spanning 3 LATAs and 125 wire-centers equipped for Ethernet
-LATAs in these Clouds are 526, 528 and 530



Where to Interconnect in Georgia

Hinesville MEN

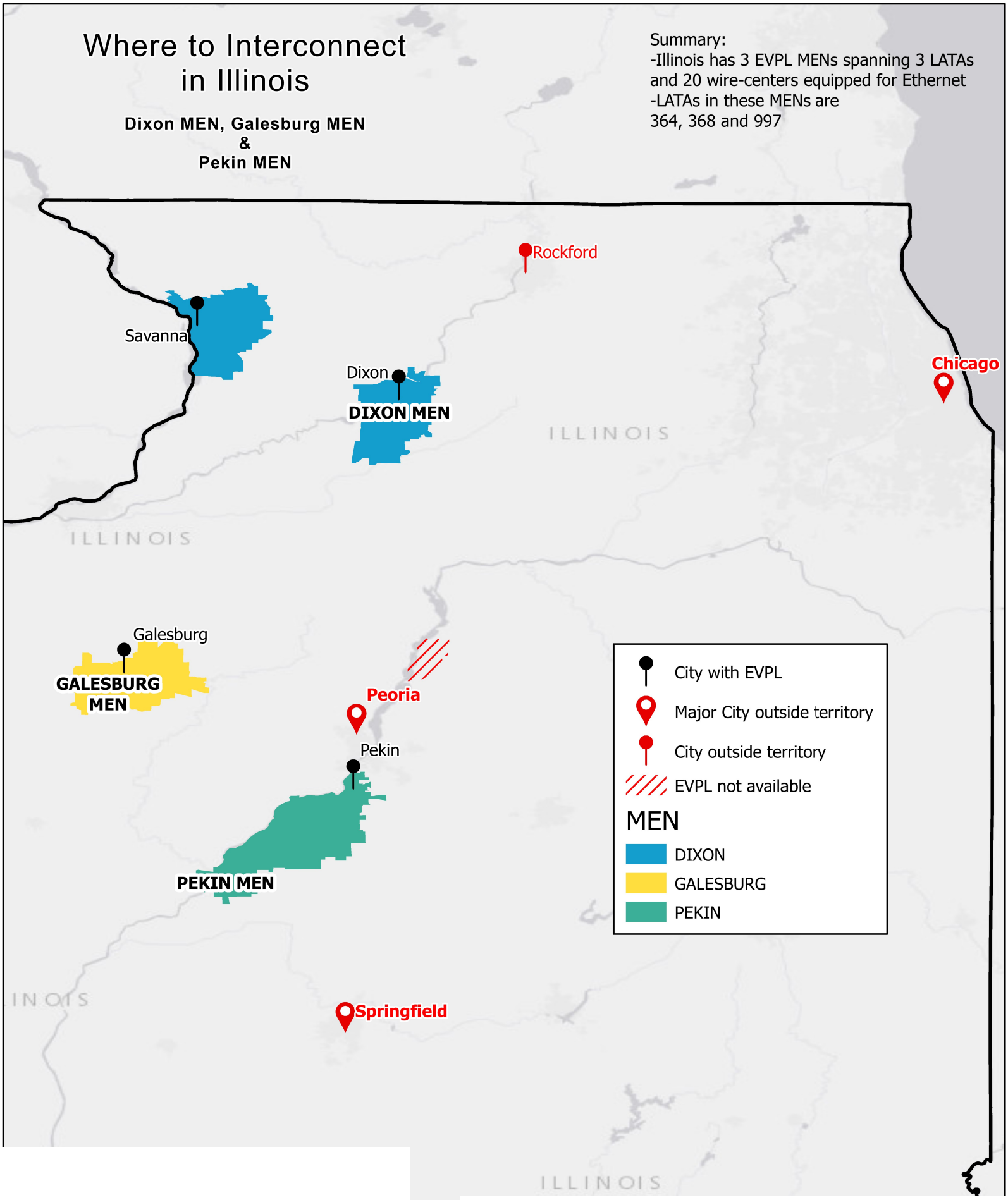
Summary:
-Georgia has 1 EVPL MEN spanning 1 LATA and 4 wire-centers equipped for Ethernet
-LATA in this MEN is 440



Where to Interconnect in Illinois

Dixon MEN, Galesburg MEN & Pekin MEN

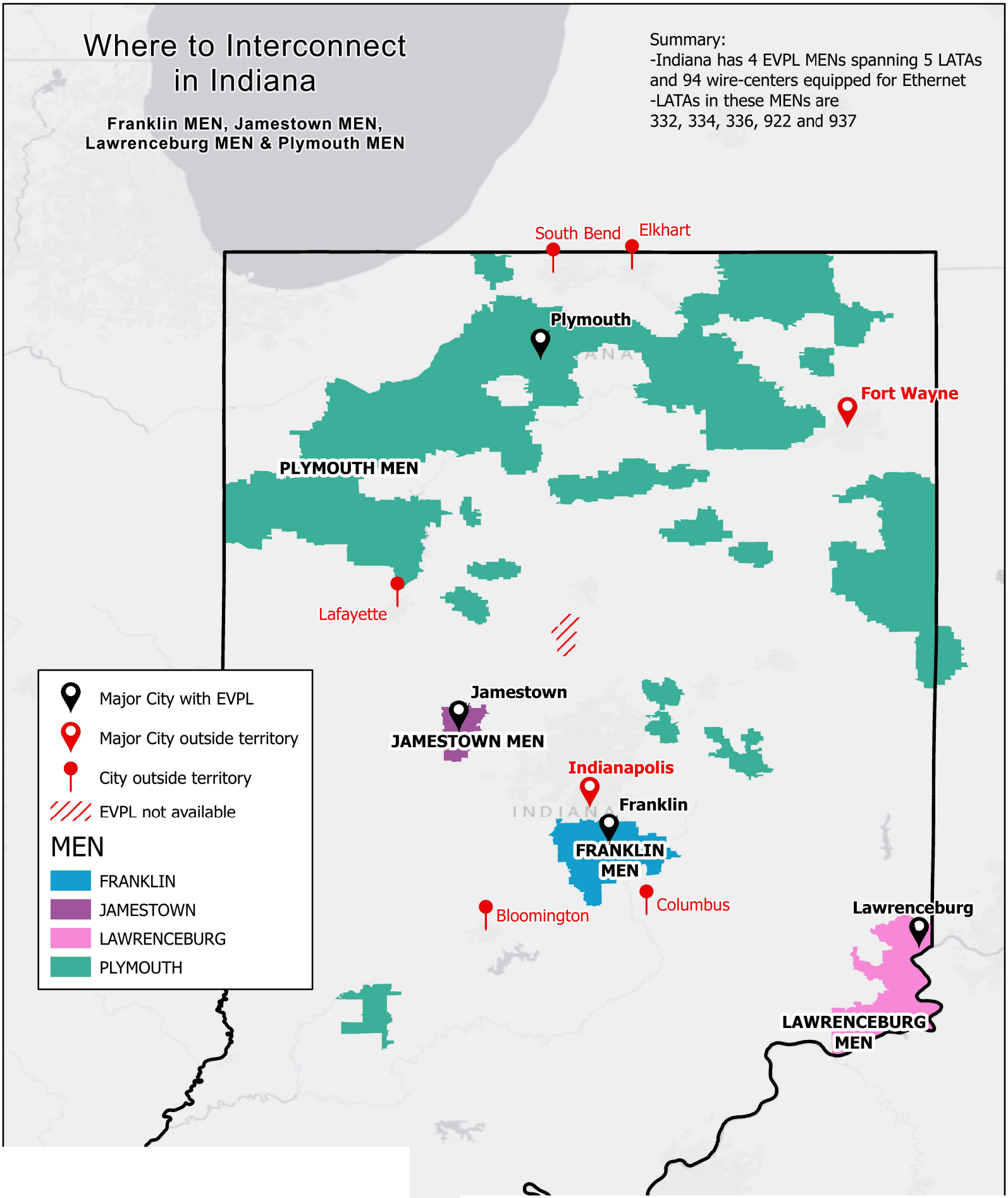
Summary:
-Illinois has 3 EVPL MENs spanning 3 LATAs and 20 wire-centers equipped for Ethernet
-LATAs in these MENs are 364, 368 and 997



Where to Interconnect in Indiana

Franklin MEN, Jamestown MEN, Lawrenceburg MEN & Plymouth MEN

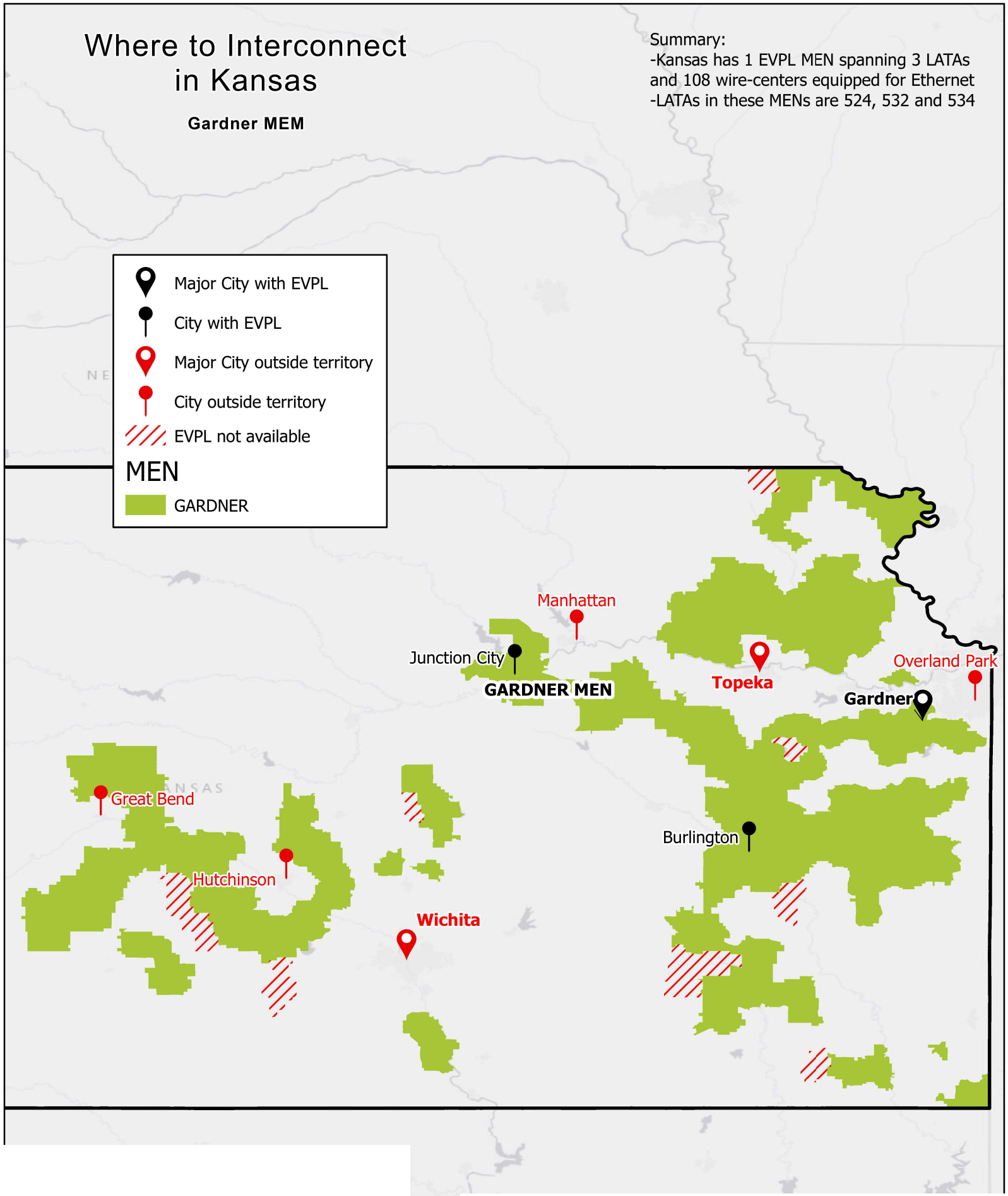
Summary:
-Indiana has 4 EVPL MENs spanning 5 LATAs and 94 wire-centers equipped for Ethernet
-LATAs in these MENs are
332, 334, 336, 922 and 937



Where to Interconnect in Kansas

Gardner MEM

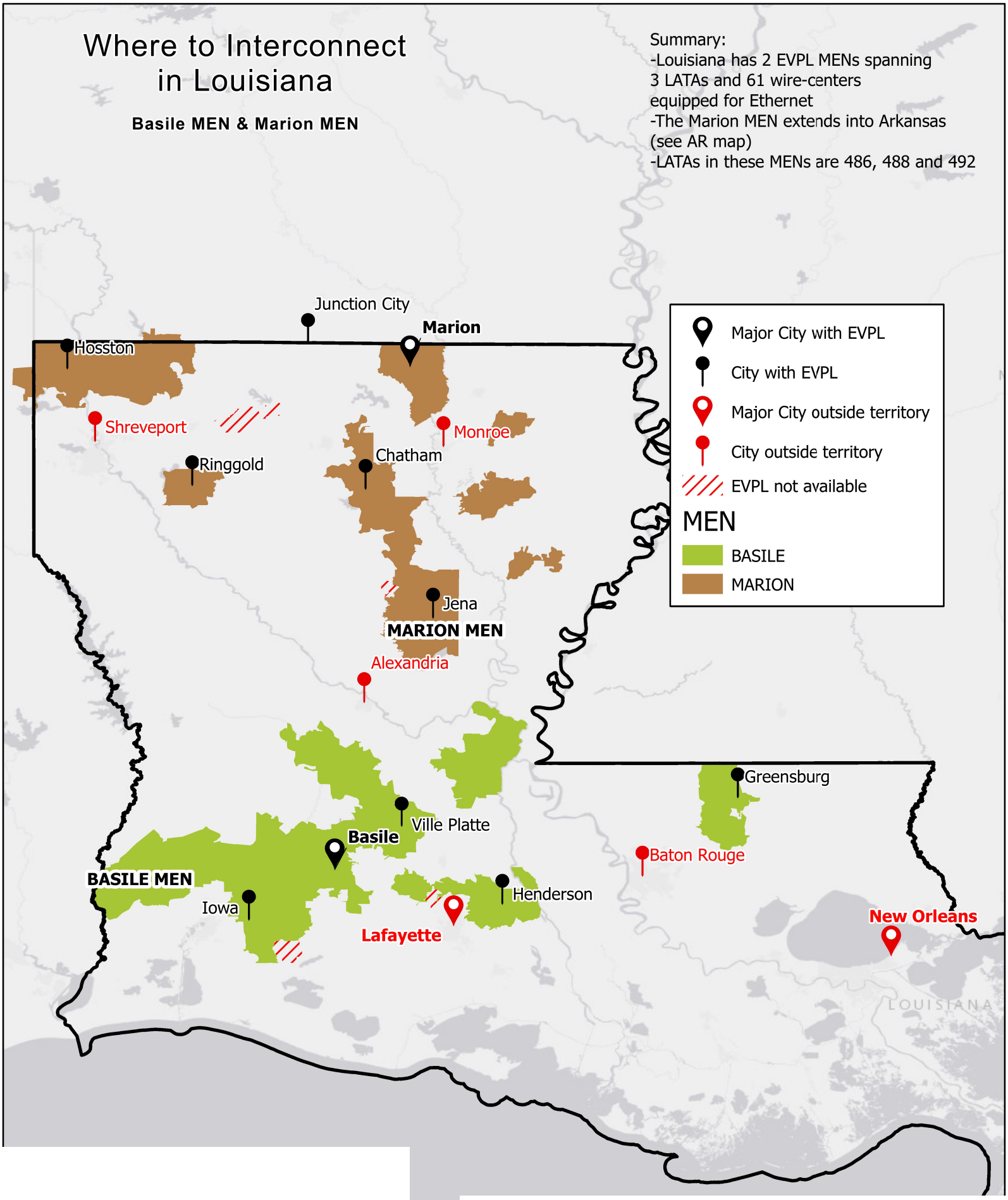
Summary:
-Kansas has 1 EVPL MEN spanning 3 LATAs and 108 wire-centers equipped for Ethernet
-LATAs in these MENs are 524, 532 and 534



Where to Interconnect in Louisiana

Basile MEN & Marion MEN

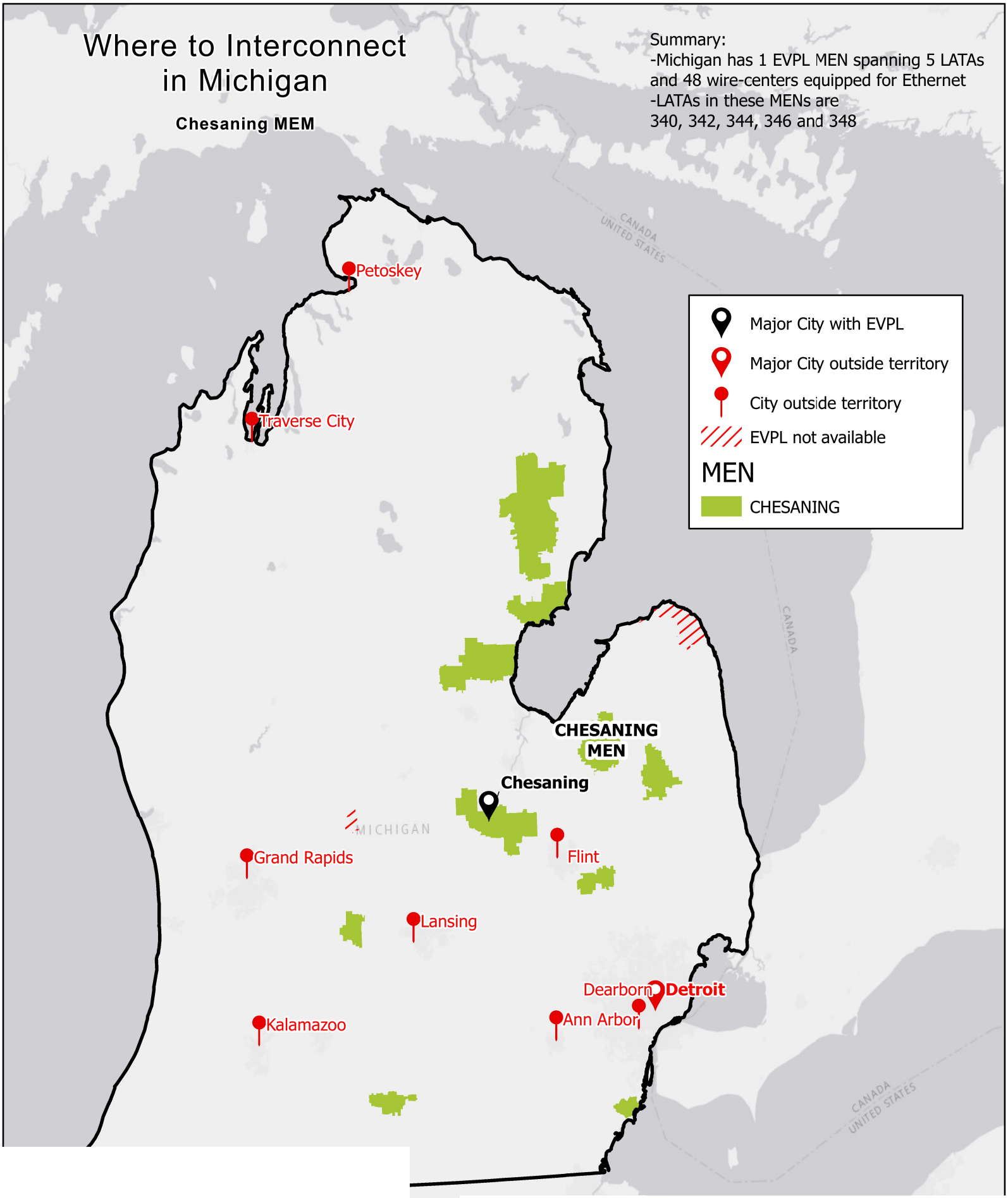
Summary:
-Louisiana has 2 EVPL MENs spanning 3 LATAs and 61 wire-centers equipped for Ethernet
-The Marion MEN extends into Arkansas (see AR map)
-LATAs in these MENs are 486, 488 and 492



Where to Interconnect in Michigan

Chesaning MEM

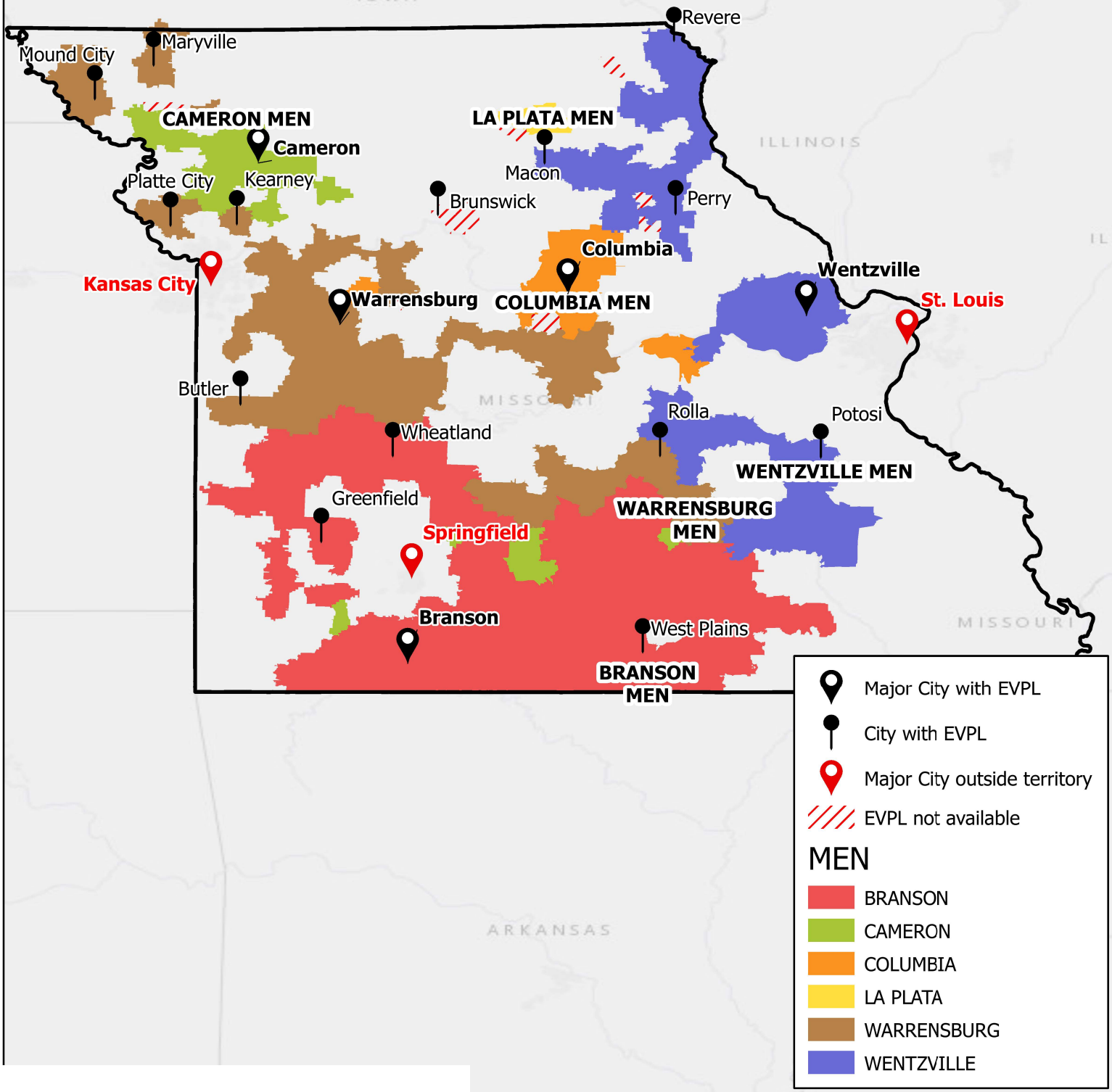
Summary:
-Michigan has 1 EVPL MEN spanning 5 LATAs and 48 wire-centers equipped for Ethernet
-LATAs in these MENs are
340, 342, 344, 346 and 348



Where to Interconnect in Missouri

Branson MEN, Cameron MEN, Columbia MEN, La Plata MEN, Warrensburg MEN & Wentzville MEN

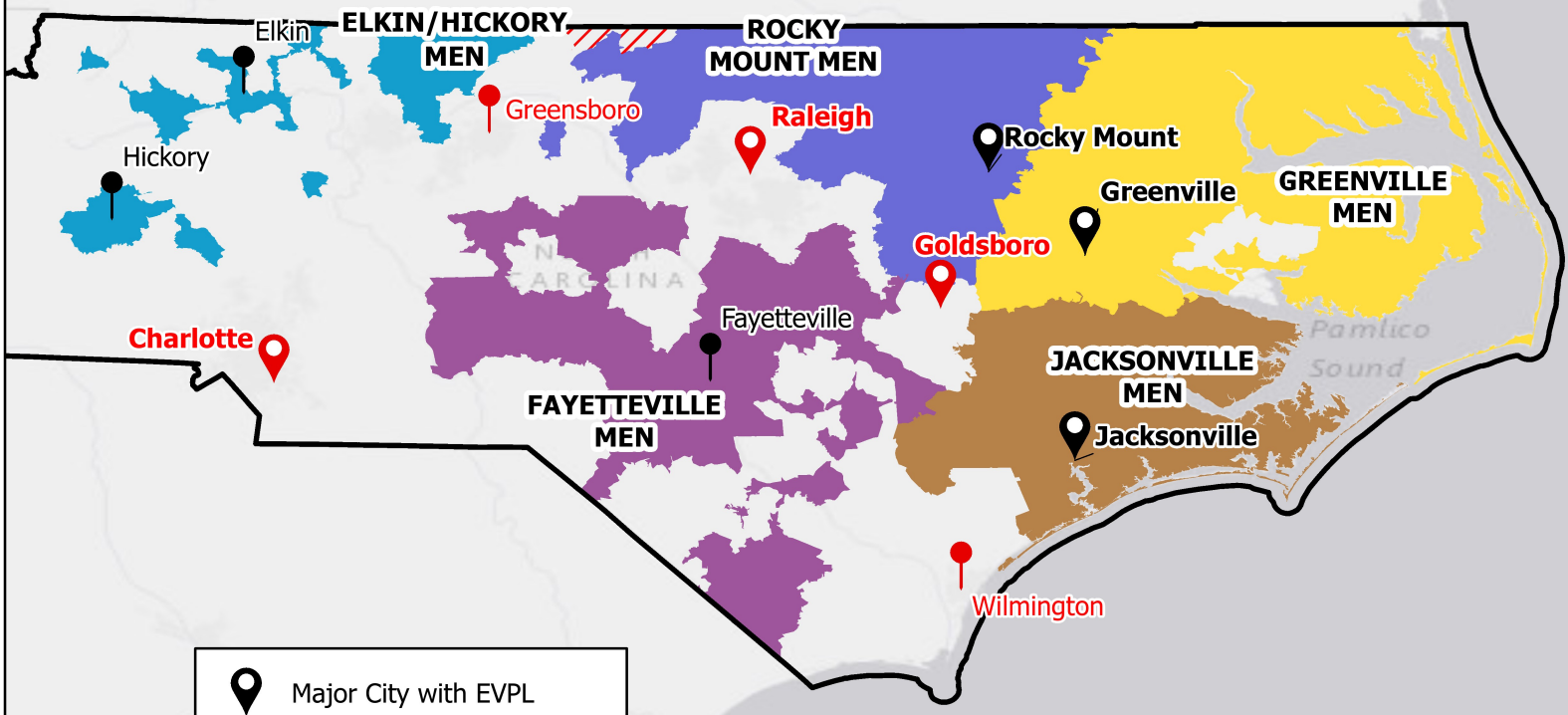
Summary:
-Missouri has 6 EVPL MENs spanning 4 LATAs and 276 wire-centers equipped for Ethernet
-LATAs in these MENs are 520, 521, 522 and 524



Where to Interconnect in North Carolina

Elkin/Hickory MEN, Fayetteville MEN, Greenville MEN, Jacksonville MEN, & Rocky Mount MEN

Summary:
-North Carolina has 5 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



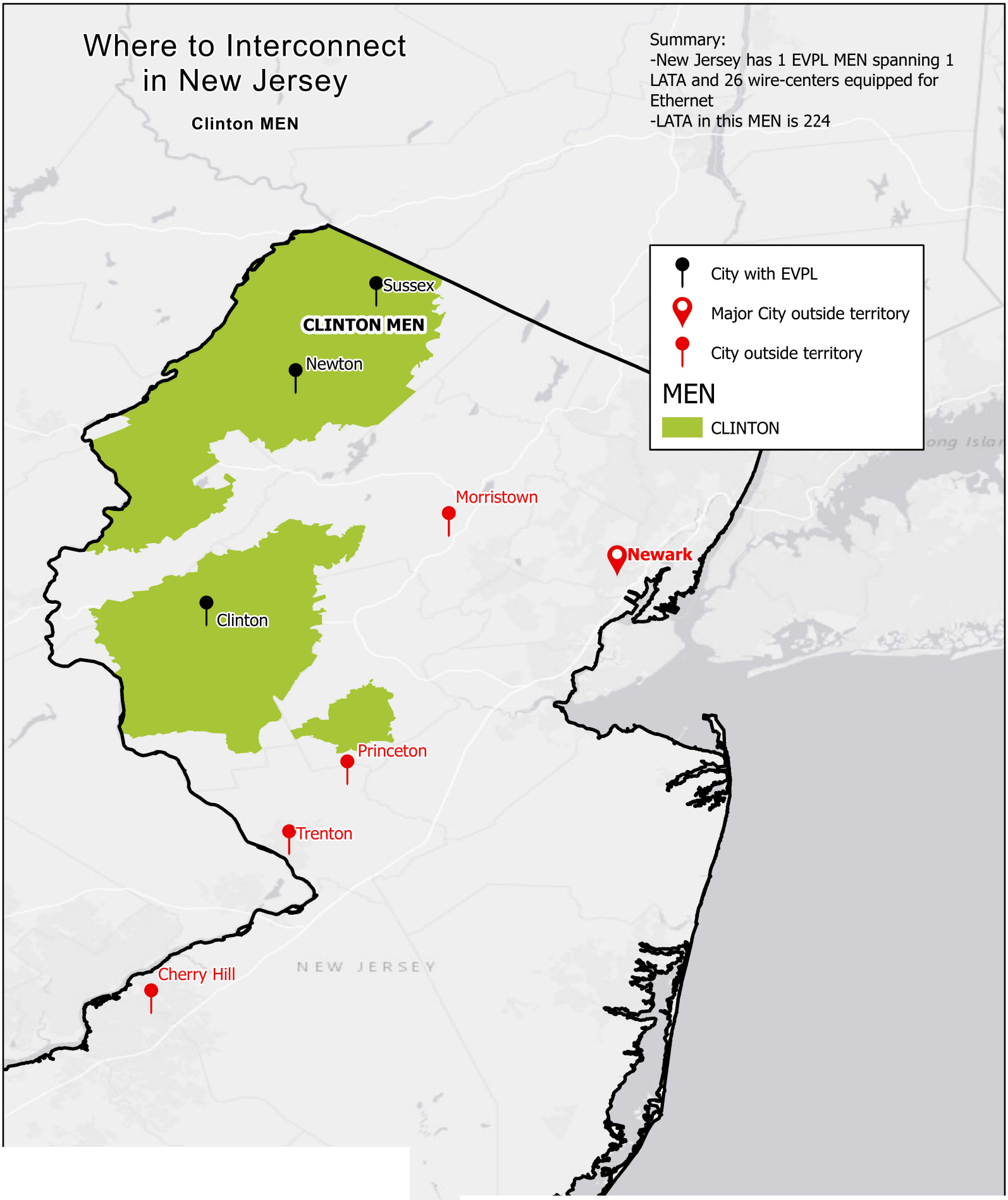
- Major City with EVPL
- City with EVPL
- Major City outside territory
- City outside territory
- EVPL not available

MEN
- ELKIN/HICKORY
- FAYETTEVILLE
- GREENVILLE
- JACKSONVILLE
- ROCKY MOUNT

Where to Interconnect in New Jersey

Clinton MEN

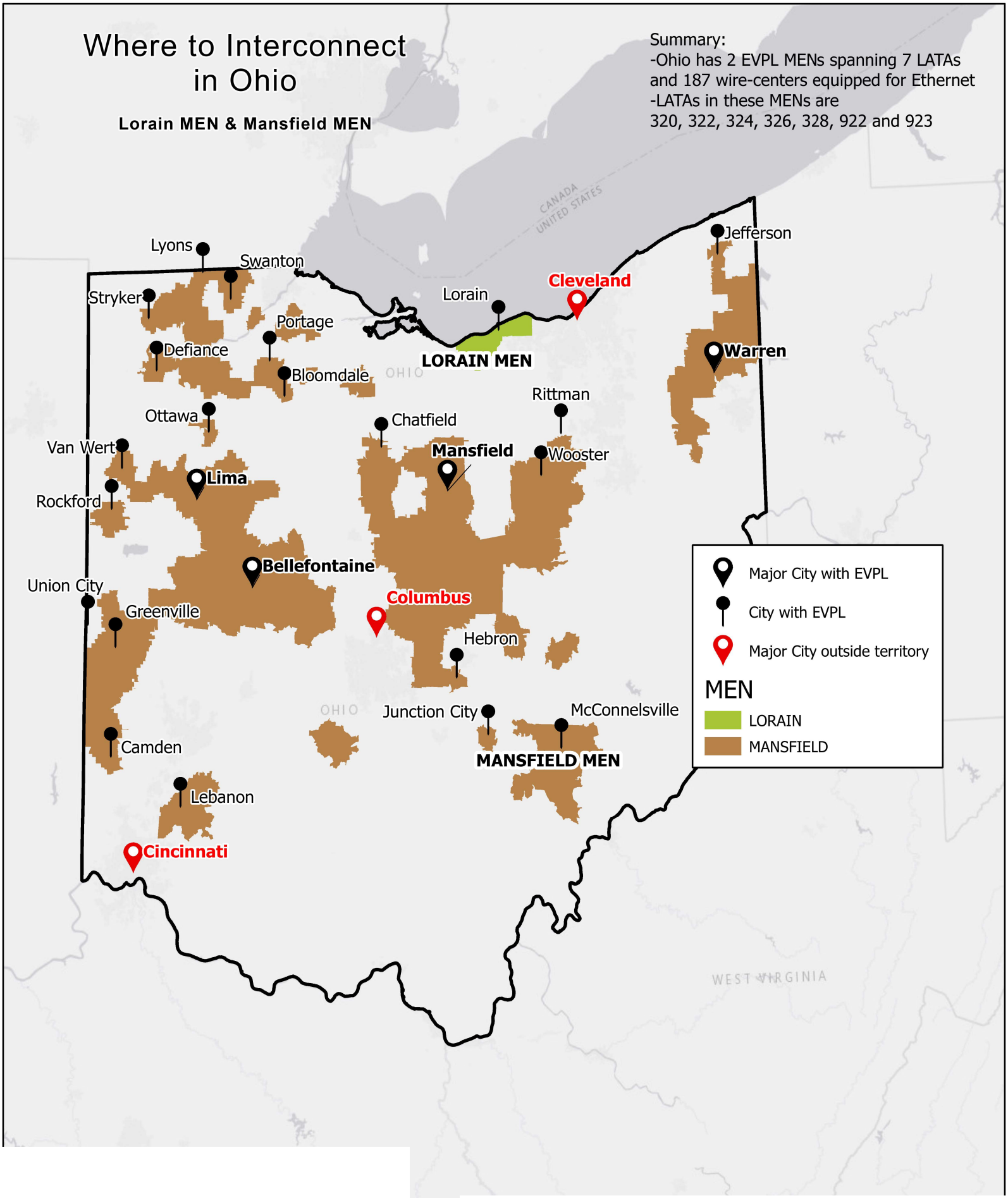
Summary:
-New Jersey has 1 EVPL MEN spanning 1 LATA and 26 wire-centers equipped for Ethernet
-LATA in this MEN is 224



Where to Interconnect in Ohio

Lorain MEN & Mansfield MEN

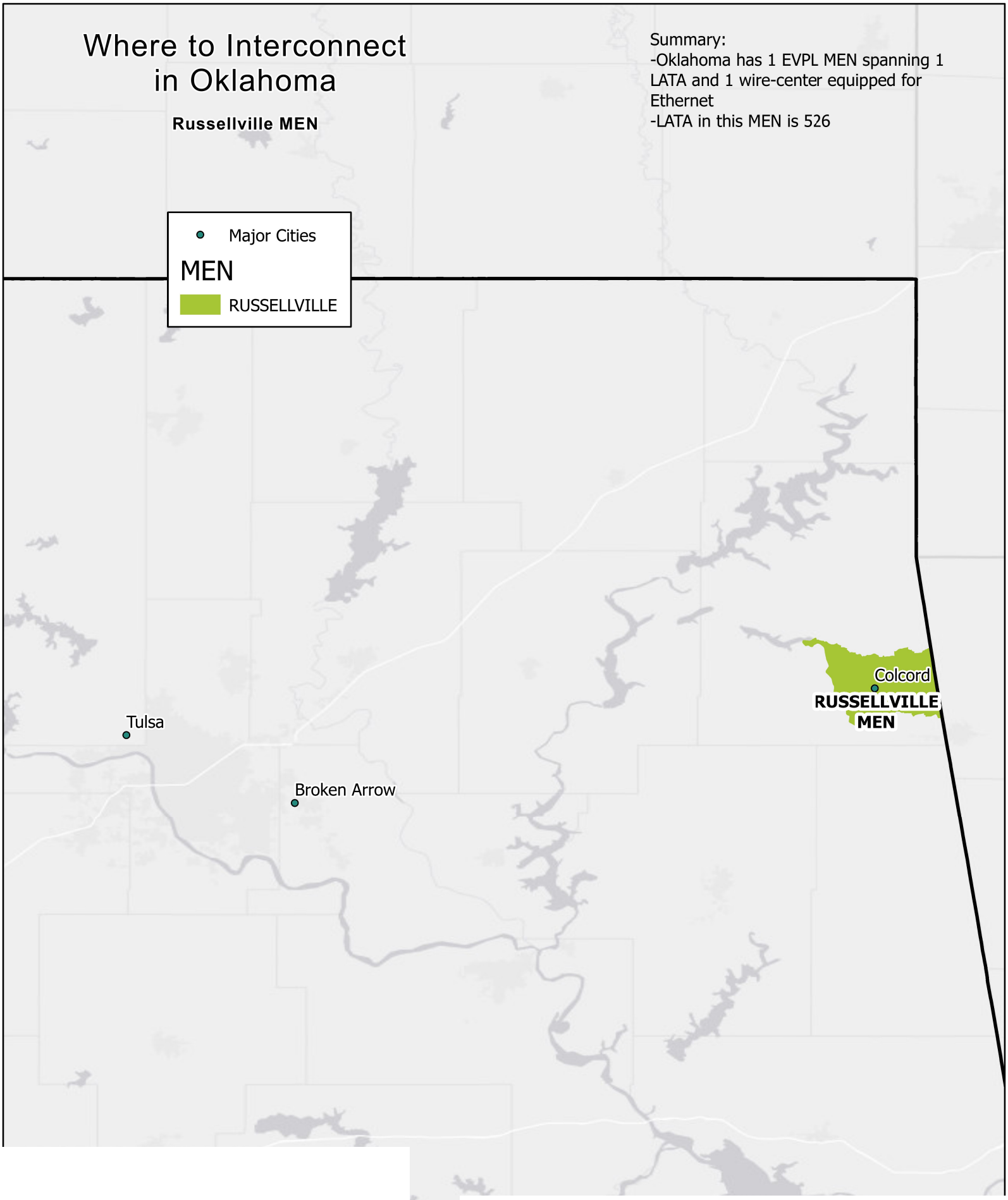
Summary:
-Ohio has 2 EVPL MENs spanning 7 LATAs and 187 wire-centers equipped for Ethernet
-LATAs in these MENs are
320, 322, 324, 326, 328, 922 and 923



Where to Interconnect in Oklahoma

Russellville MEN

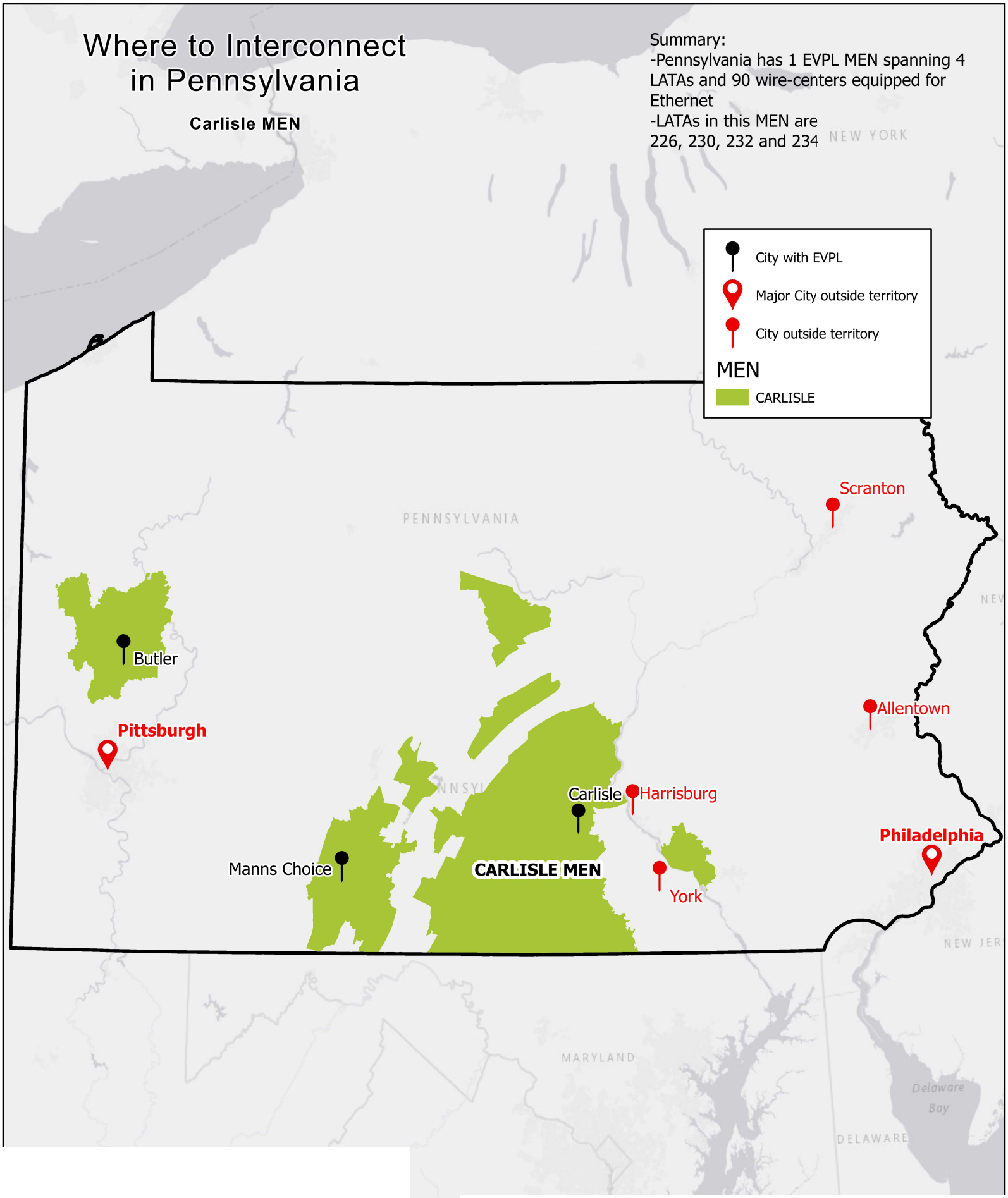
Summary:
-Oklahoma has 1 EVPL MEN spanning 1 LATA and 1 wire-center equipped for Ethernet
-LATA in this MEN is 526



Where to Interconnect in Pennsylvania

Carlisle MEN

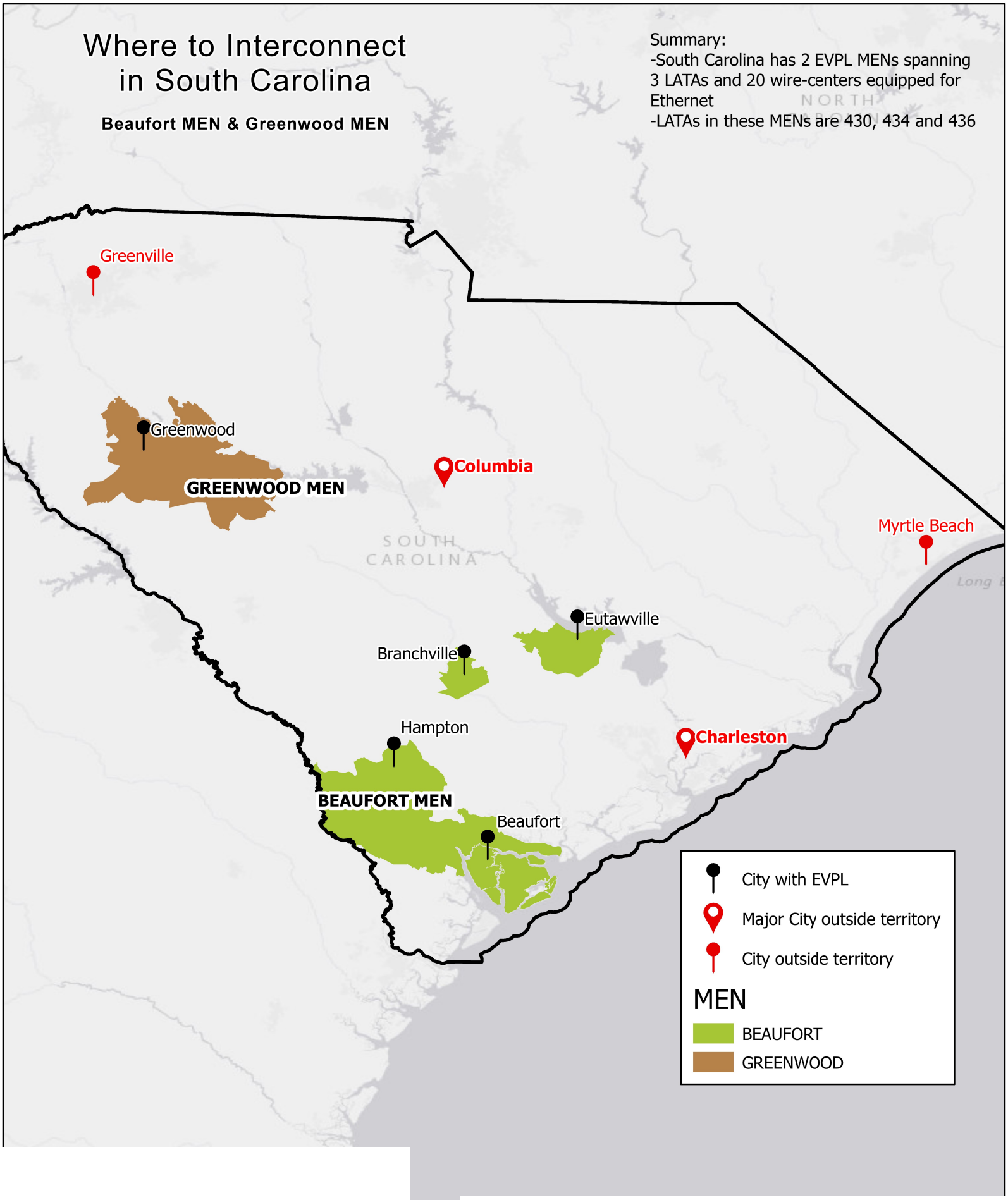
Summary:
-Pennsylvania has 1 EVPL MEN spanning 4 LATAs and 90 wire-centers equipped for Ethernet
-LATAs in this MEN are 226, 230, 232 and 234



Where to Interconnect in South Carolina

Beaufort MEN & Greenwood MEN

Summary:
-South Carolina has 2 EVPL MENs spanning 3 LATAs and 20 wire-centers equipped for Ethernet
-LATAs in these MENs are 430, 434 and 436

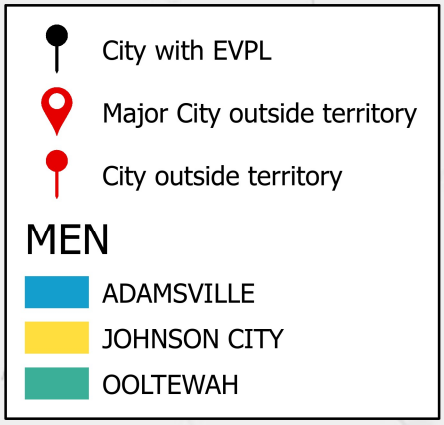


Where to Interconnect in Tennessee

Adamsville MEN, Johnson City MEN & Ooltewah MEN

Summary:
-Tennessee has 3 EVPL MENs spanning 4 LATAs and 32 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

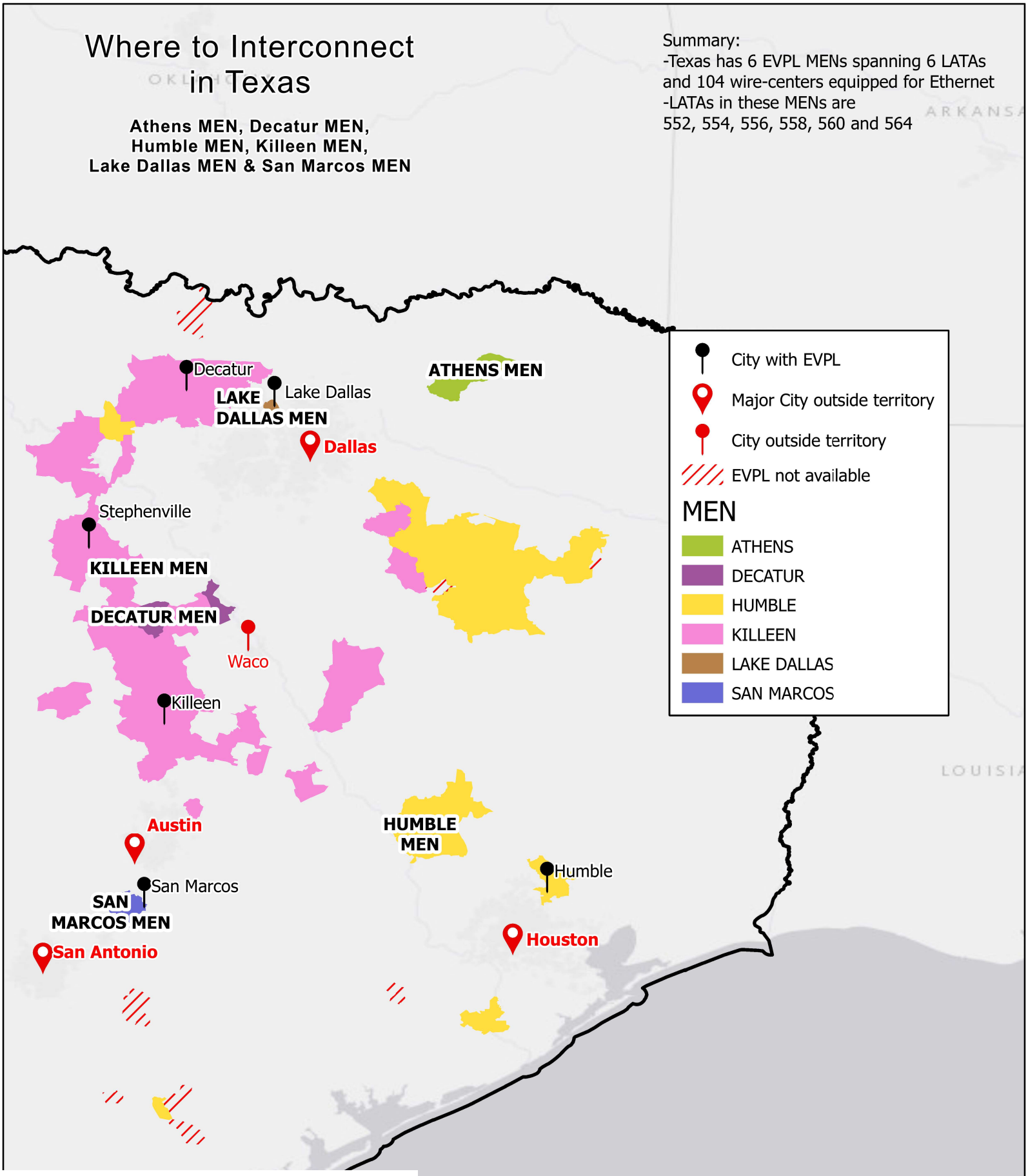




Where to Interconnect in Texas

Athens MEN, Decatur MEN, Humble MEN, Killeen MEN, Lake Dallas MEN & San Marcos MEN

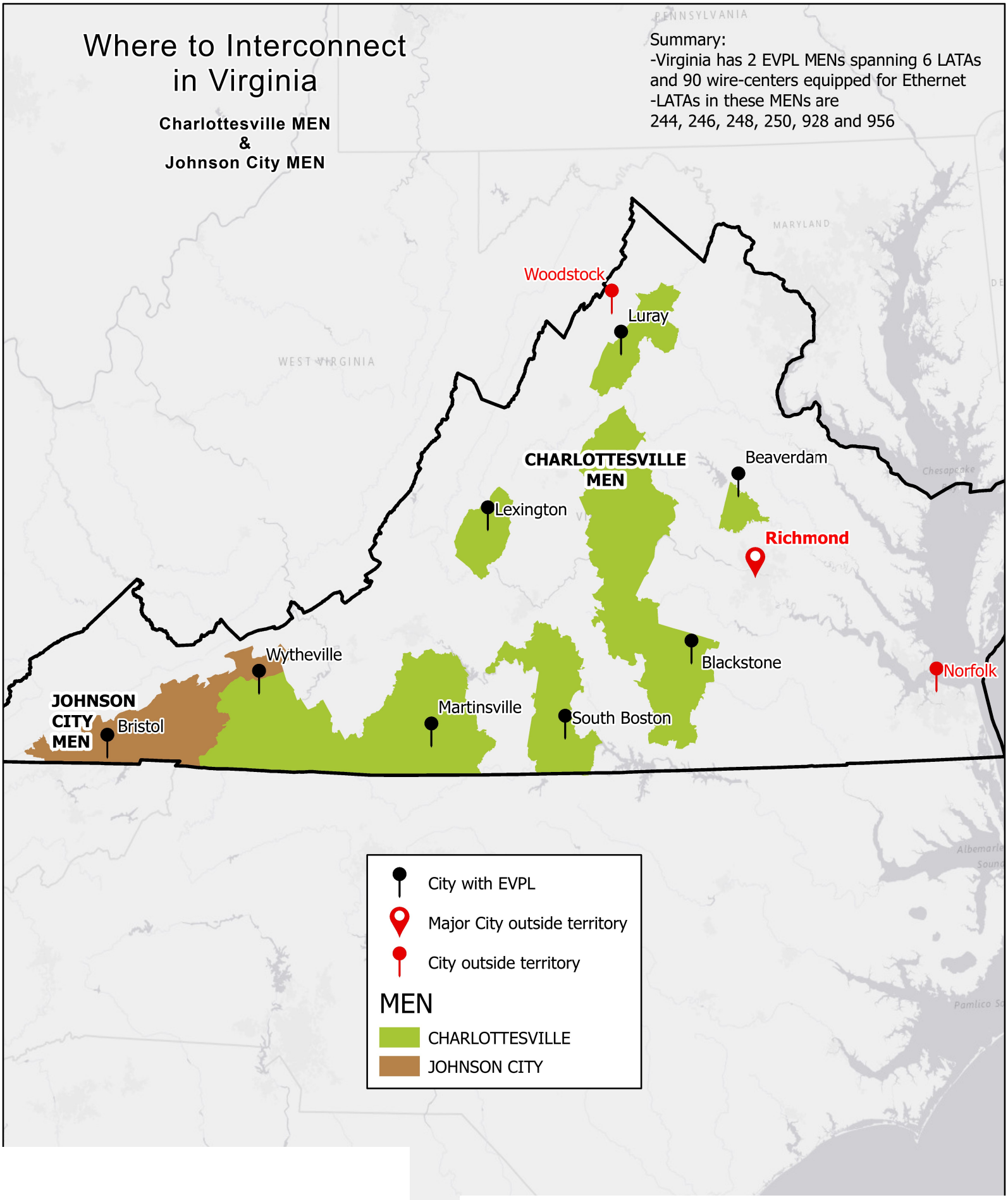
Summary:
-Texas has 6 EVPL MENs spanning 6 LATAs and 104 wire-centers equipped for Ethernet
-LATAs in these MENs are
552, 554, 556, 558, 560 and 564



Where to Interconnect in Virginia

Charlottesville MEN
&
Johnson City MEN

Summary:
-Virginia has 2 EVPL MENs spanning 6 LATAs and 90 wire-centers equipped for Ethernet
-LATAs in these MENs are
244, 246, 248, 250, 928 and 956



Where to Interconnect in Wisconsin

Deforest MEN, Denmark MEN, La Crosse MEN, Marinette MEN, Platteville MEN, Rice Lake MEN, Sullivan MEN & Superior MEN

Summary:
-Wisconsin has 8 EVPL MENs spanning 4 LATAs and 202 wire-centers equipped for Ethernet
-LATAs in these MENs are 350, 352, 354 and 356

