WiscNet Minneapolis MICE Proposal
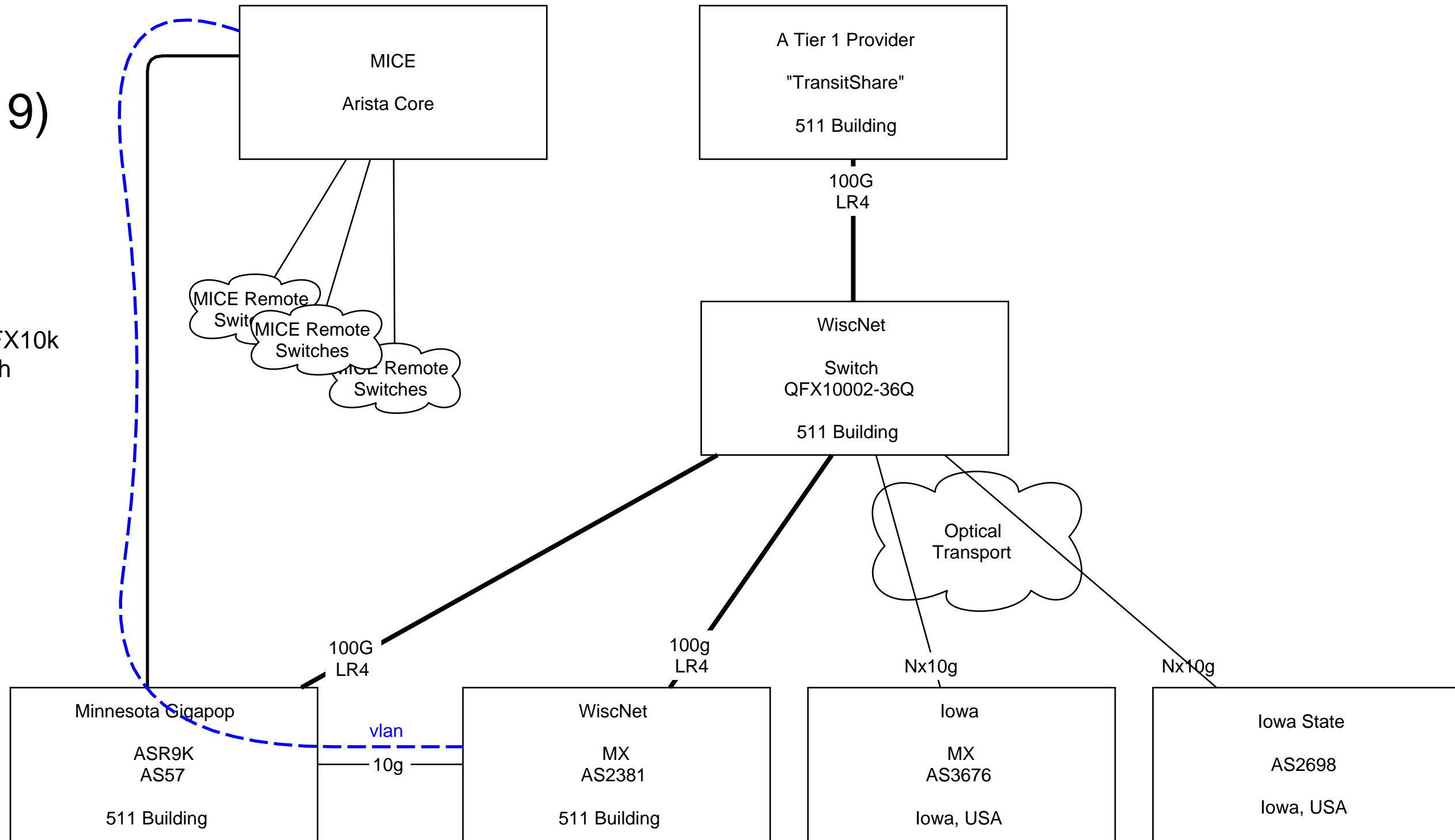
WiscNet
Connecting People and Strategies

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Last Edit By: Wopat

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AS2381

Current
(Deployed Spring 2019)

WiscNet connects to MICE via University of Minnesota GigaPop since 2014

WiscNet recently installed and manages QFX10k switch to interconnect R&E institutions which facilitates sharing resources such as 100G transit sharing and private peering
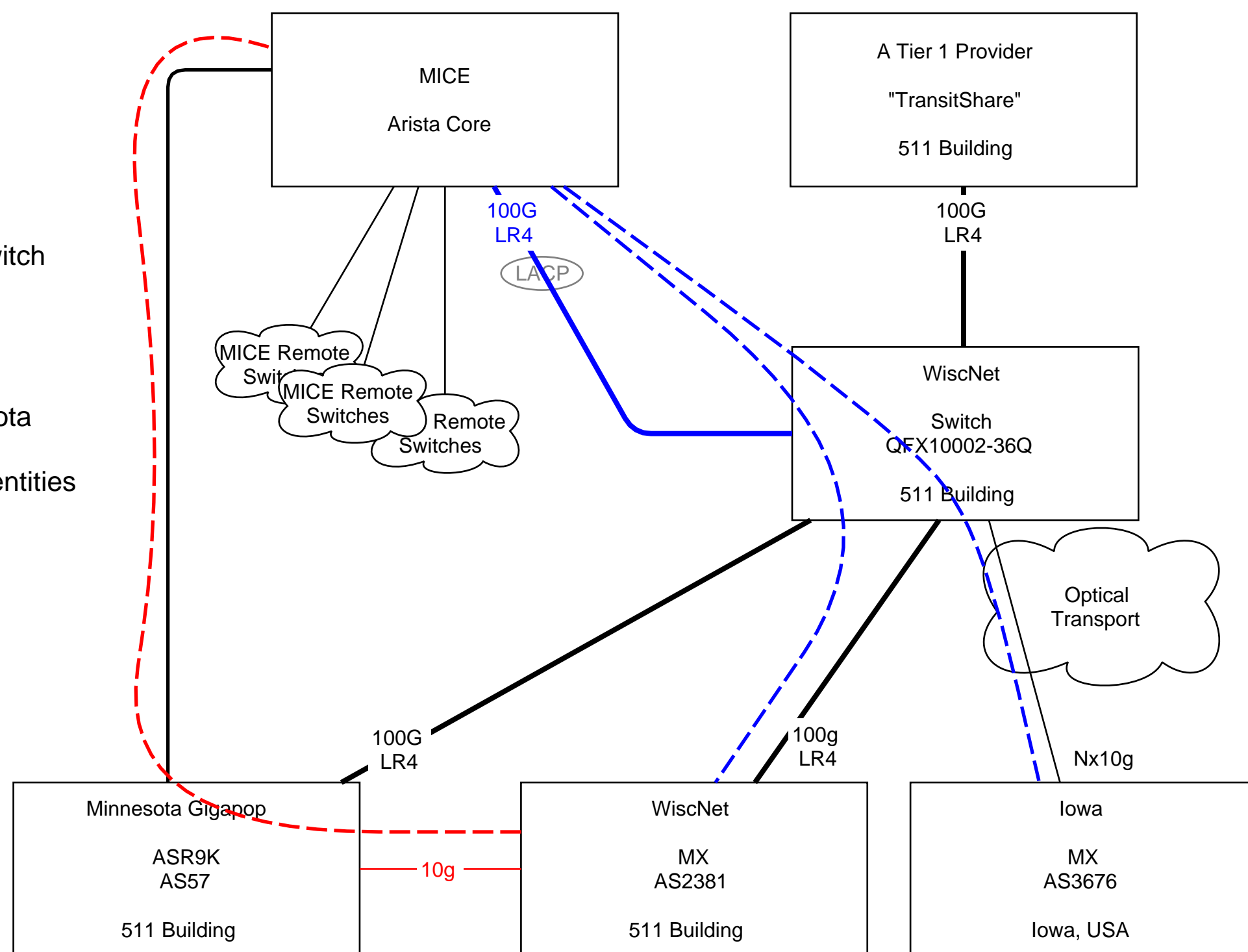

MICE

Arista Core

A Tier 1 Provider

"TransitShare"

511 Building

100G
LR4

WiscNet

Switch
QFX10002-36Q

511 Building

Optical Transport

MICE Remote Switches
MICE Remote Switches
MICE Remote Switches

100G
LR4

100g
LR4

Nx10g

Nx10g

Minnesota Gigapop

ASR9K
AS57

511 Building

vlan

10g

WiscNet

MX
AS2381

511 Building

Iowa

MX
AS3676

Iowa, USA

Iowa State

AS2698

Iowa, USA

Proposed
(Winter 2019/2020)

Provision 100g LR4 towards MICE core switch with LACP enabled for future expansion

Move WiscNet's existing MICE peering

Remove legacy 10g from WiscNet-Minnesota

Provision MICE IPs and VLANs for newly entities

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WiscNet

Switch
QFX10002-36Q

511 Building

100G
LR4

LACP

MICE Remote Switches
MICE Remote Switches
Remote Switches

Optical Transport

100G
LR4

100g
LR4

Nx10g

Minnesota Gigapop

ASR9K
AS57

511 Building

10g

WiscNet

MX
AS2381

511 Building

Iowa

MX
AS3676

Iowa, USA

Future
(2020+)

Add aditional 100g to MICE LAG as needed

Upgrade downstream customer ports as needed

Add additional R&E instutions as interested

Further utilize existing switch to facilitate sharing other resources in the 511 building as necessary

Upgrade switch to denser model as needed

MICE

Arista Core

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"TransitShare"

511 Building

Future Interesting "TransitShare" Thing

Peering? Transit?

(Not related to MICE)

100G
LR4

100G
LR4

LACP

100G
LR4

WiscNet

Switch
QFX10002-36Q

511 Building

MICE Remote Switches
MICE Remote Switches
Remote Switches

Optical Transport

100G
LR4

100g
LR4

100g
LR4

Minnesota Gigapop

ASR9K
AS57

511 Building

WiscNet

MX
AS2381

511 Building

Iowa

MX
AS3676

Iowa, USA

Future R&E Organizations