



A BinaryTree SMART Migration Webinar

Designing an Active Directory Migration to Meet Real-World Requirements

BinaryTree

The SMART Migration Company

Our Speakers



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Microsoft Certified Master
Microsoft MVP: Exchange
Microsoft Certified Solutions Master: Charter Member -
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Microsoft MCSM: Exchange
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Binary Tree Overview

HISTORY

Founded in 1993 with **21 years** of email migration software and professional services experience

FOCUS

Focused on **Microsoft platform migration solutions**: Exchange, Active Directory, Windows Server

STATS

Migrated **over 30 million users** for over 6,000 customers around the world, including over 3 million to the Microsoft cloud

LOCATIONS

Headquartered outside New York City with **110 employees** in North America, Europe and Asia Pacific

PARTNERS

Global, national and regional partners represent Binary Tree in Americas, Europe, Middle East, Africa and Asia Pacific



Designing an AD Migration to Meet Real-World Requirements

Highlighting Design Decisions through a Fictional AD Migration Case Study

The Case Study Agenda

- The Business Situation and Background
- Discovery of Business and Technical Requirements
- Review the Results of Discovery
- Mapping Requirements to Design Decisions
- Considering the Known Challenges
- Final Thoughts



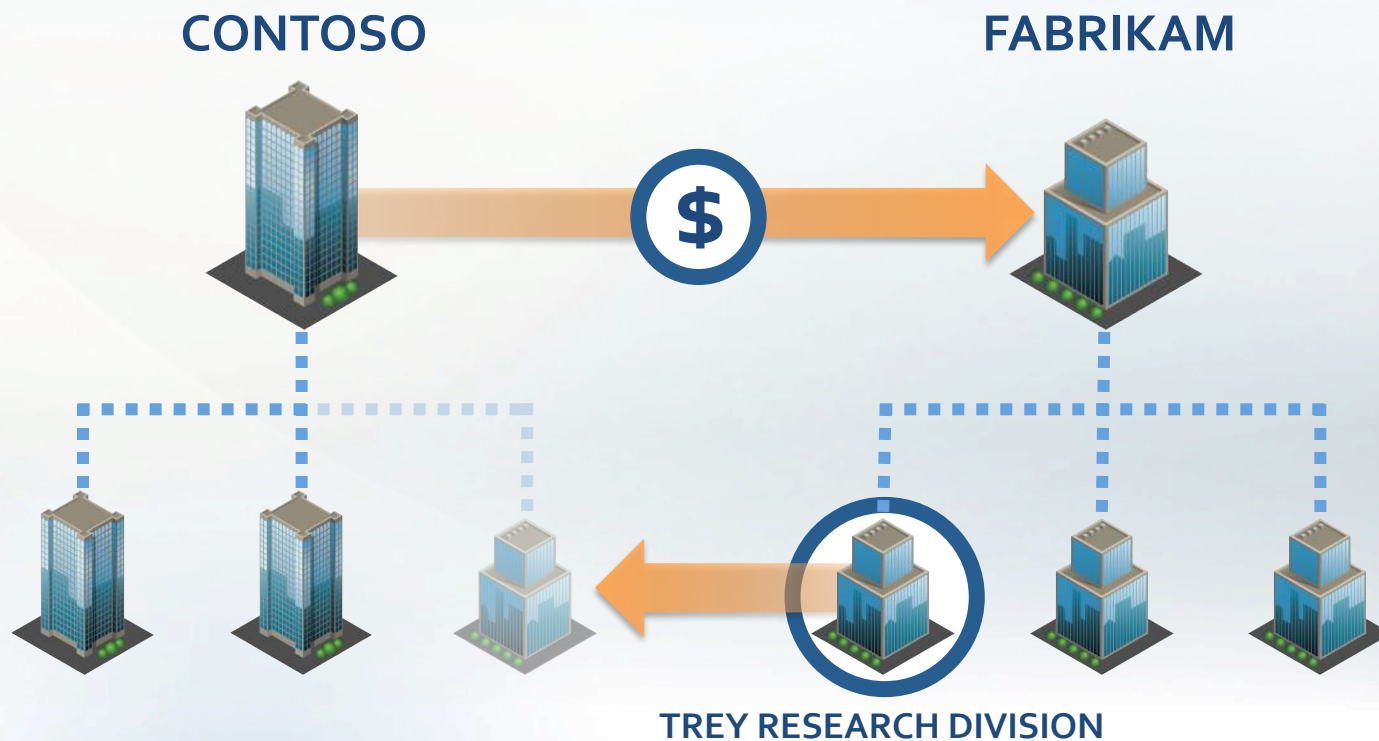
A Fictional Case Study

Business Situation and Background

Introduction to the Case Study

The Business Situation and Background

Contoso is acquiring the Trey Research division of Fabrikam and needs to migrate relevant AD objects between the two entities starting on Day One





A Fictional Case Study

Discovery of Business and Technical Requirements

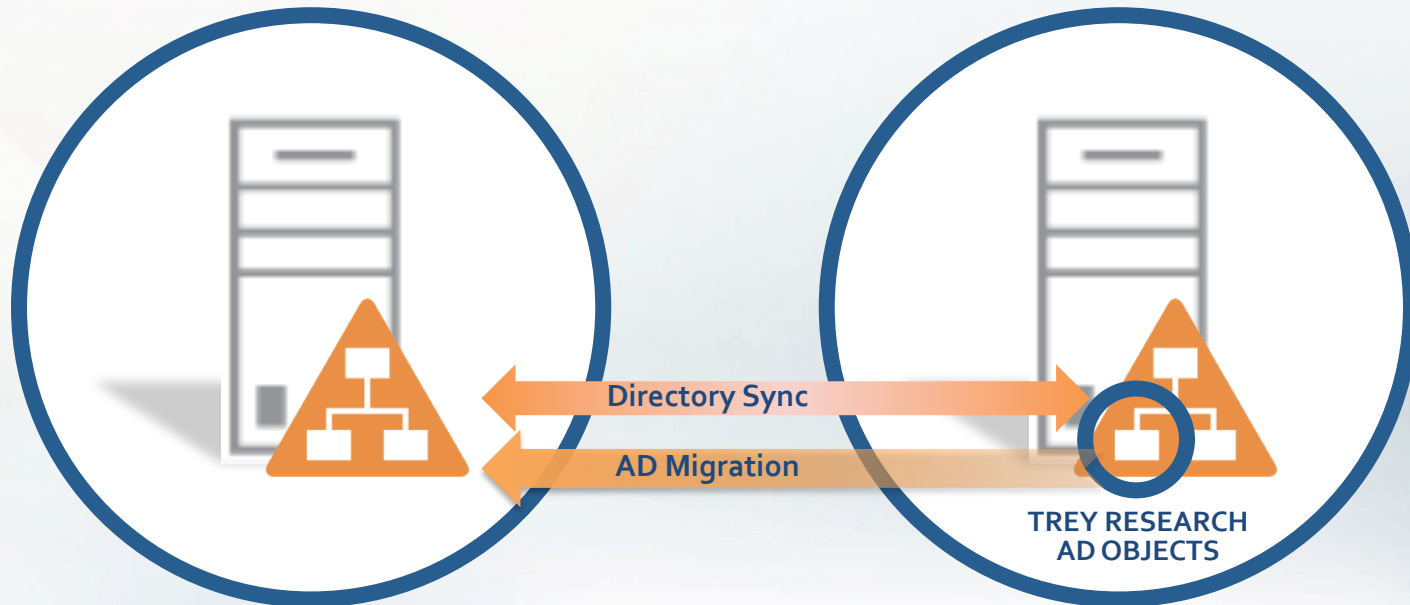
Discovery of Requirements

Overview

Contoso needs to set up directory synchronization with Fabrikam by Day One and start the AD migration right after Day One

CONTOSO

FABRIKAM



Discovery Questions

Sample Questions on the Business Requirements

- Will this project be known publicly before Day One?
- What is the timing required to complete the migration?
- Where will the new business and employees be located?

Sample Questions on the Technical Requirements

- What client and server OS versions are in use?
- What applications need to be migrated? Are they in this scope?
- What needs to be synchronized between the domains?



A Fictional Case Study

Review the Results of Discovery

Review the Business Requirements

Sample Business Requirements Identified

- Project is on a need-to-know basis until announced publicly
- Project has a short timetable – migrate 5,000 users in 4 weeks
- Most migrated users will become remote users

Review the Technical Requirements

Sample Technical Requirements Identified

- Separate team will handle migration of applications
- Clients include a mix of Windows XP, 7 and 8.1
- Servers include a mix of Windows Server 2003, 2008 and 2012 R2
- Objects that need to be synchronized:
 - Passwords
 - Some attributes
 - Only source OU
 - sAMAccountNames (some have different names)
 - Employee ID



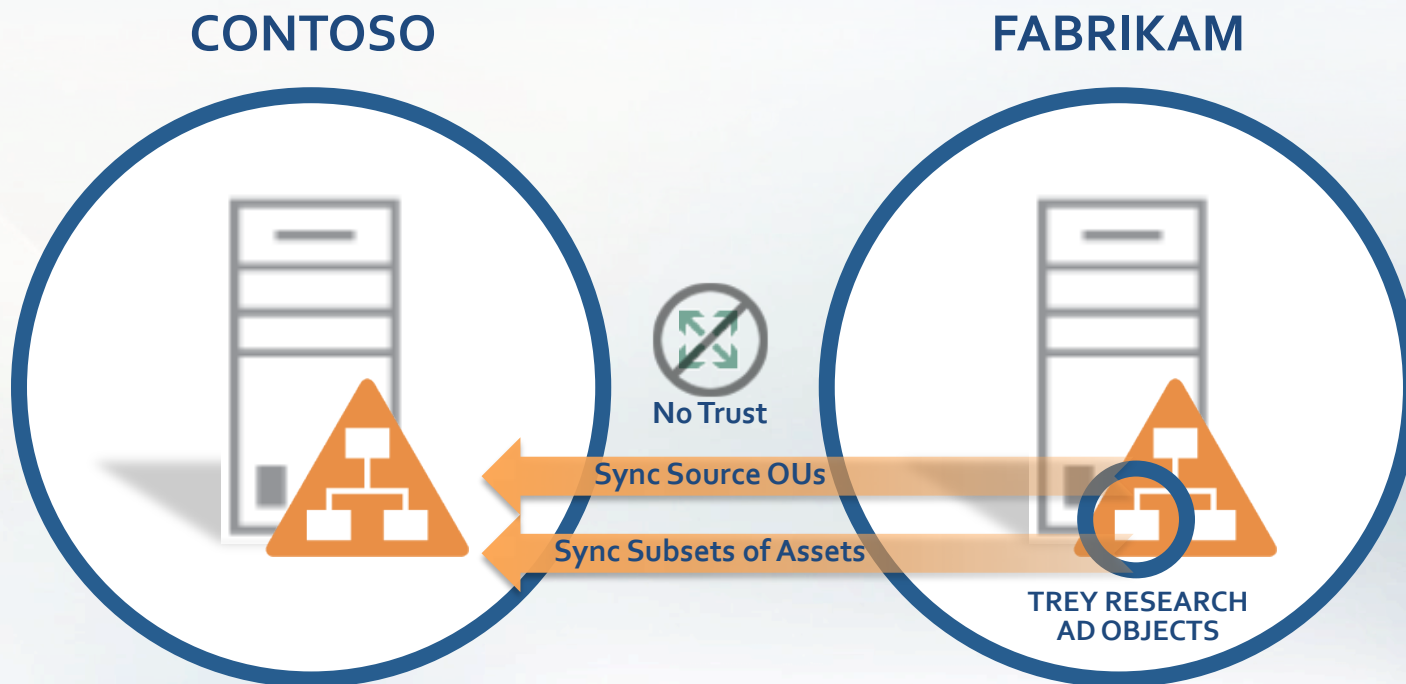
A Fictional Case Study

Mapping Requirements to Design Decisions

Mapping Requirements to Design

AD Forest Relationship

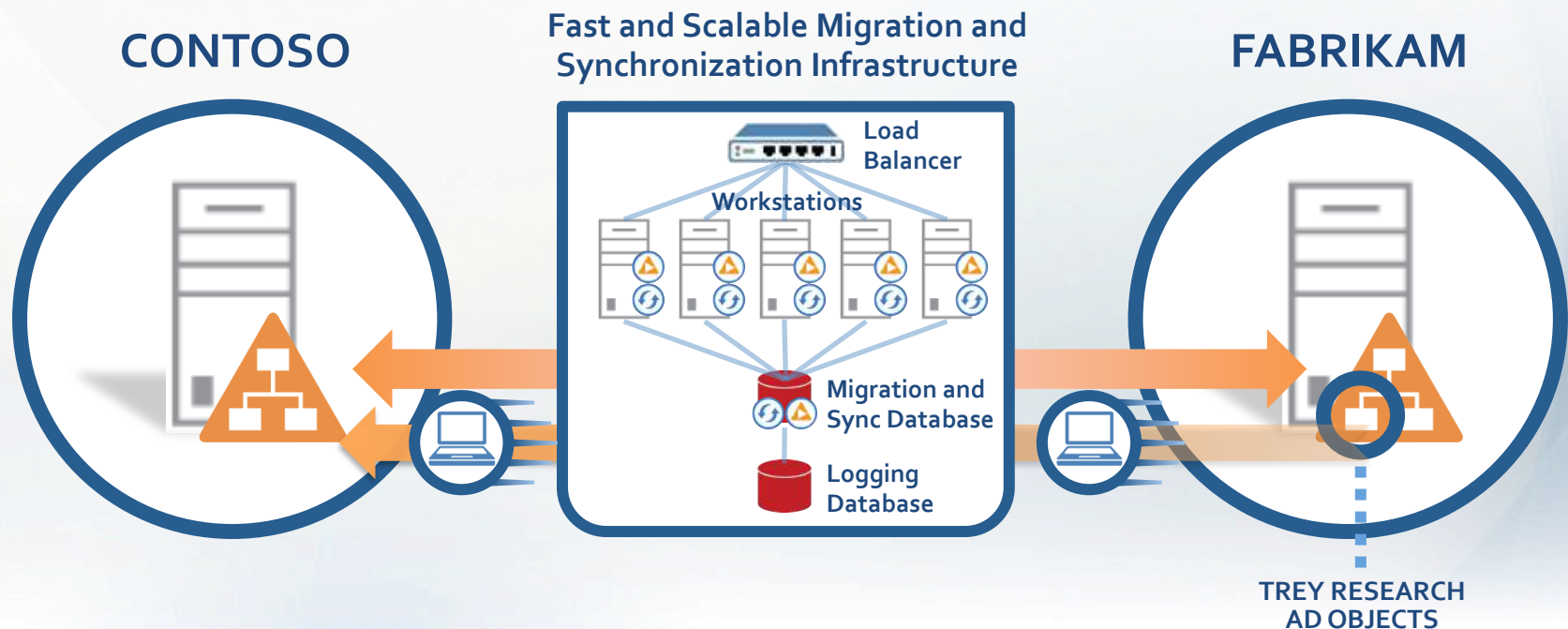
A trust between the domains can not be set up plus only source OUs and a subset of assets will be synchronized from Fabrikam to Contoso



Mapping Requirements to Design

Migration Architecture: Scalability

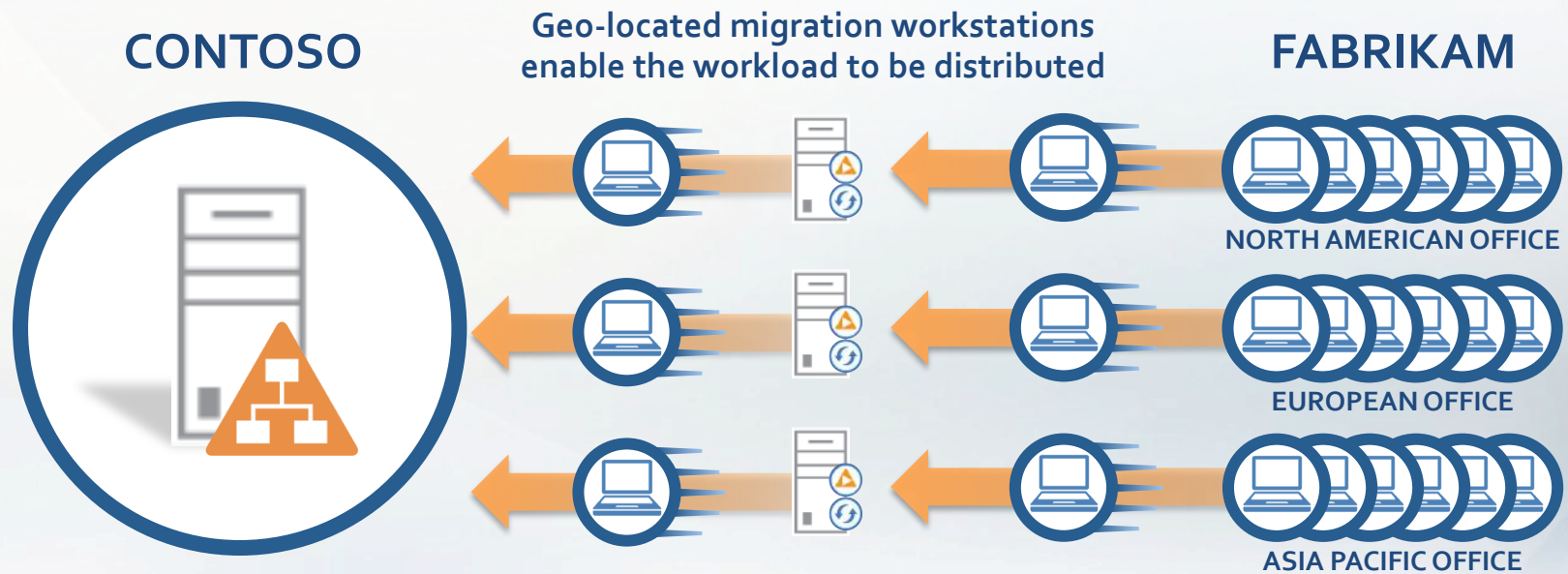
The migration and synchronization infrastructure needs to be fast and scalable as about 1,200 workstations per week will need to be migrated



Mapping Requirements to Design

Migration Architecture: Distributed

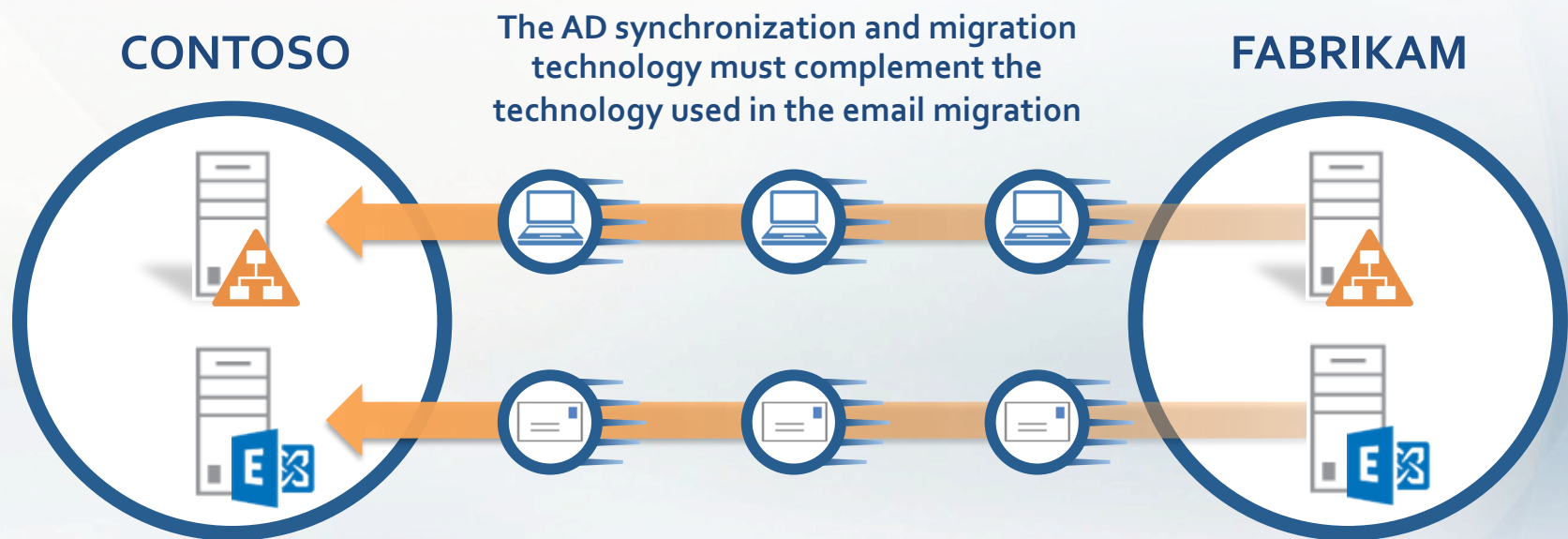
The migration workstations need to be located in the same geographical locations as the user workstations they will be migrating



Mapping Requirements to Design

Migration Architecture: Complementary

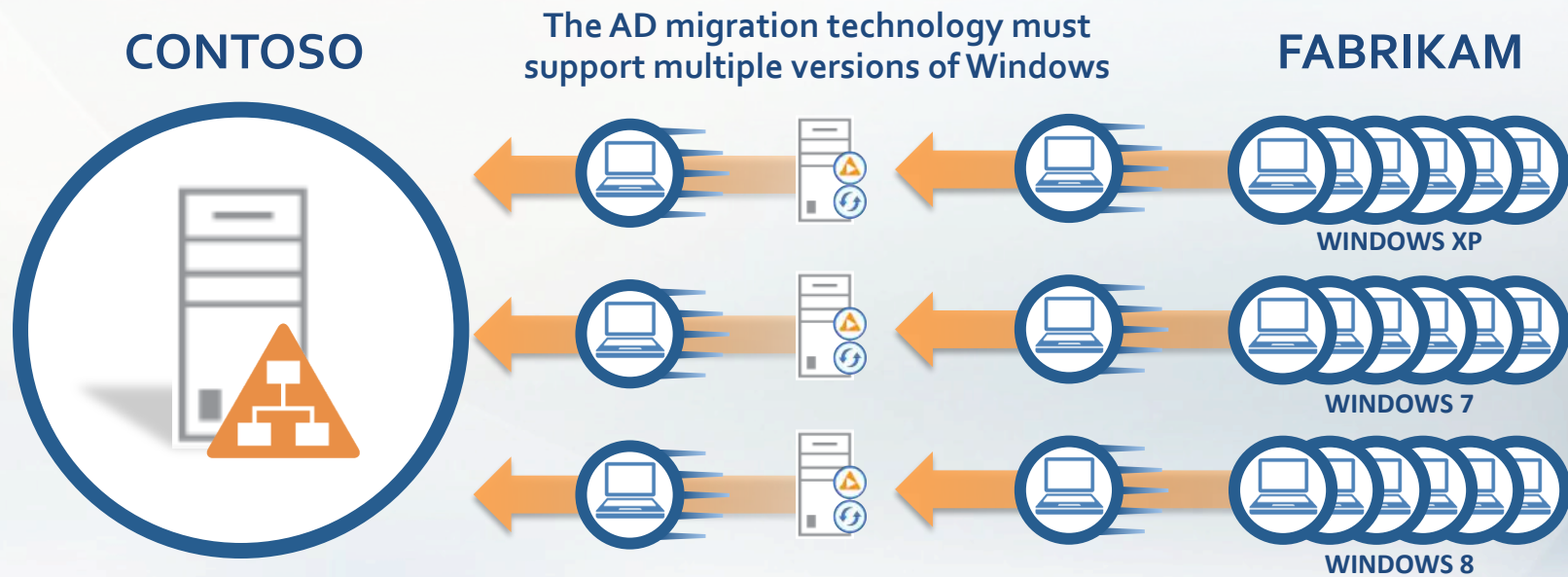
The Active Directory migration project must be complementary to the email migration project being run by a different team



Mapping Requirements to Design

Migration Architecture: Compatibility

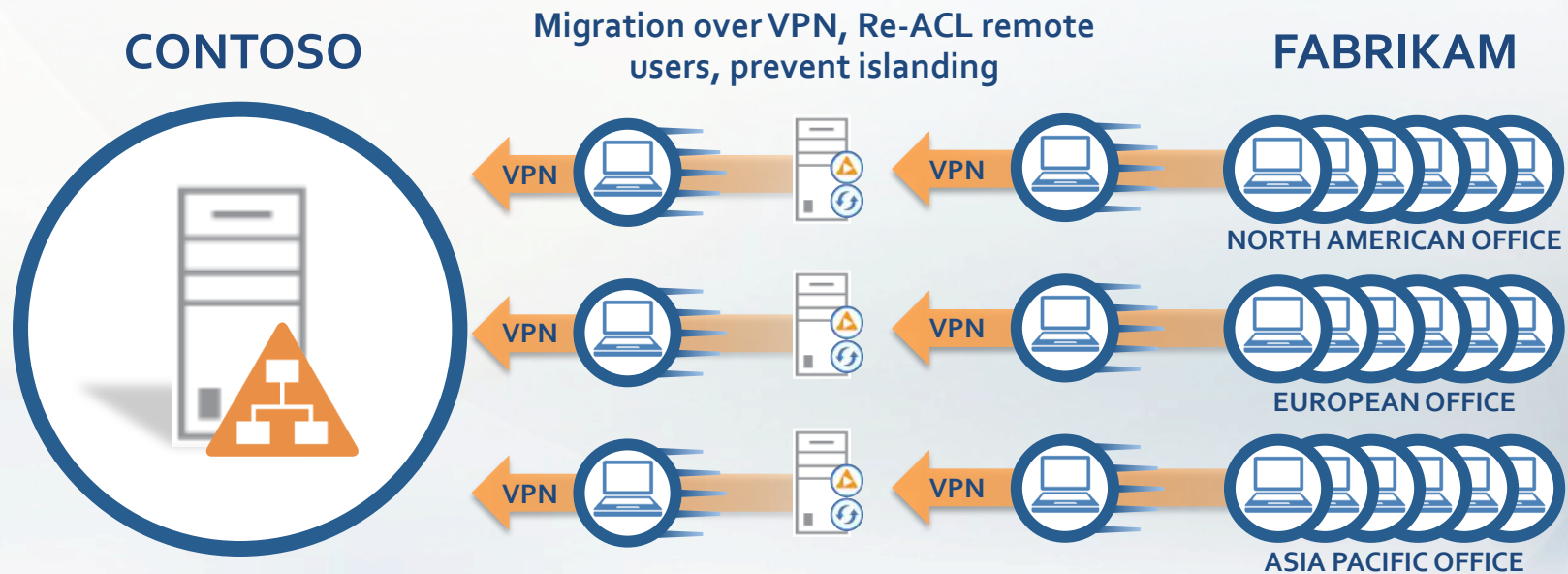
The AD migration technology must support user workstations with legacy and current versions of the Windows Operating System



Mapping Requirements to Design

Migration Architecture: VPN Support

The user workstations need to be migrated remotely over VPN



Mapping Requirements to Design

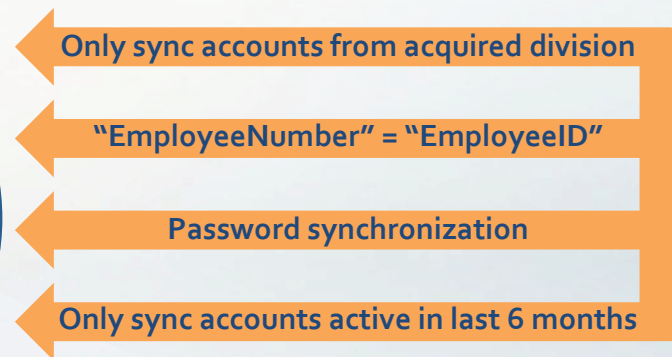
Synchronization of AD Objects

The requirements for synchronizing the Active Directory objects from Fabrikam to Contoso

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Sample Synchronization
Parameters and Requirements



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TREY RESEARCH
AD OBJECTS



A Fictional Case Study

Considering the Known Challenges

What are the Known Challenges?

The Known Gotcha's

- DNS Suffix
- Recycle Bin
- Domain Islanding
- Exchange-linked Mailboxes
- sIDHistory
- Disk Encryption



A Fictional Case Study

Final Thoughts

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Final Thoughts on This Case Study

Requirements	Recommendations
Secrecy, only have permission to subset of OU's in target	No trust
Velocity, remote users and 4 week window	Scalable using standard internet protocols
Disjointed messaging migration	Automatic cleanup of linked mailboxes through synchronization software
Migration velocity, security, VPN support, patching	Remove legacy operating systems
Permissions on only subset of target OU	Sync must selectively transform source security principals and attributes



Questions and Answers

Upcoming Webinars

Best Practices Webinar

Topic varies each month

Solution Demonstration Webinars

SMART Solutions for Active Directory Migrations

SMART Solutions for Exchange Migrations

SMART Solutions for Notes Migrations

Webinar Schedule: www.binarytree.com/webcasts

Webinar Archive: www.binarytree.com/recordings



Thanks for Attending!

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