

Windows 7 “ZTI” build process

(Zero Touch Installation)

Presented by:
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KEMTAH
Transforming IT Services

ZTI Process Overview

Custom Scheduling Utility

Close Open Apps

Unlock Encrypted Files

Capture Windows
Settings

Capture USMT Data

Commvault Backup

Remove From AD

Boot Into PE

Stage Setup Disk Post
Scripts

Stage Drivers to
DriverStore

Stage OS Files with
Saved System Settings

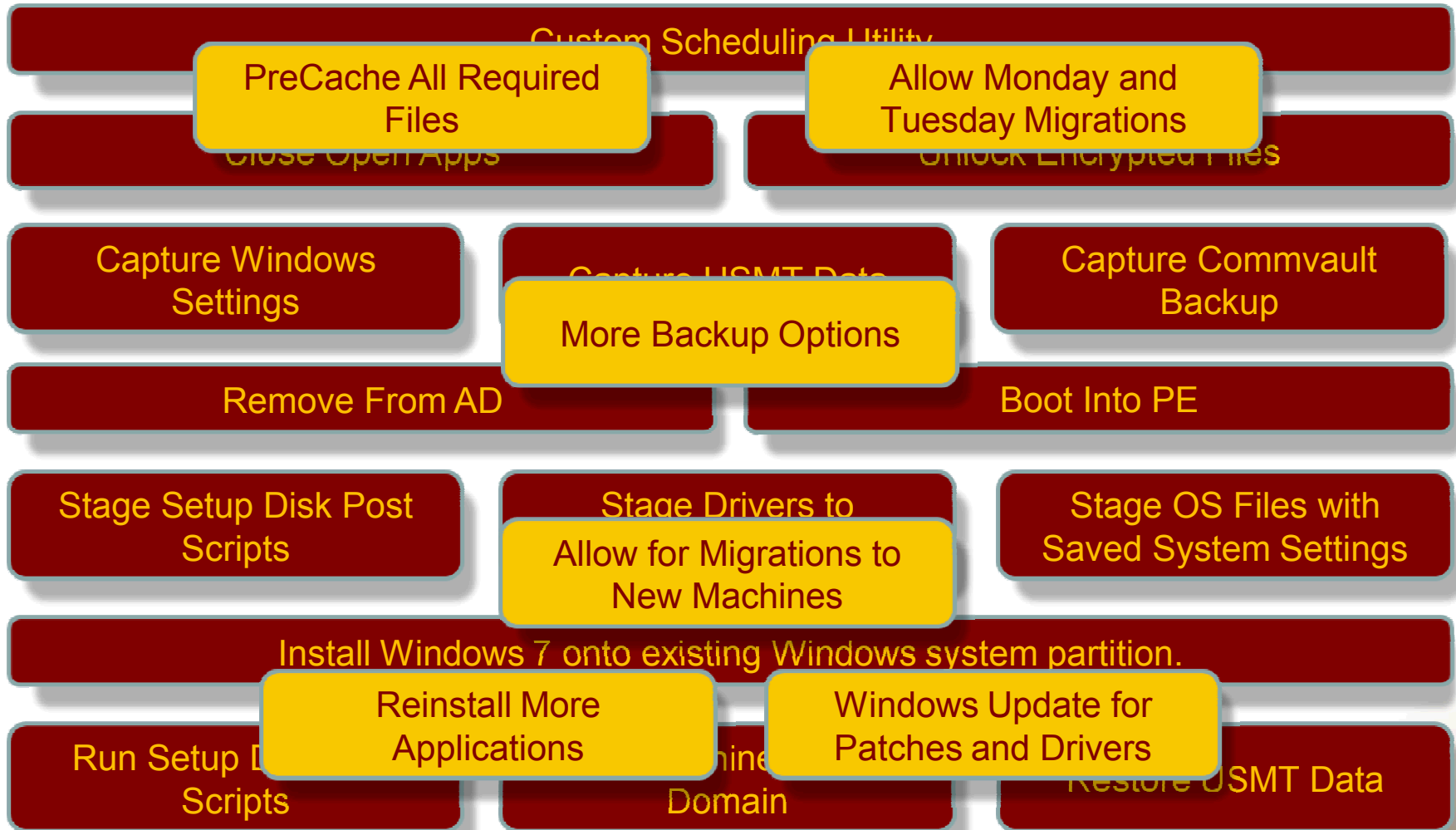
Install Windows 7 Onto Existing Windows System Partition.

Run Setup Disk Post
Scripts

Push Machine Back to
Domain

Restore USMT Data

ZTI Phase II



ZTI Process Benefits

- Designed to be run entirely remotely
- Has several scheduling options
- Can run at night when network is least utilized
- Don't have to decrypt Credant drives
- SMS GUID is transferred
- Doesn't repartition
- Saves techs time
- Reduces user downtime
- Computer is immediately usable after ZTI is complete
- Communication is sent to tech & user (start / end)

Gathering Migration Requirements

- The interview form allows us to capture customer migration requirements
 - This form is used for both ZTI and Manual builds

- Things to ask the customer:

- 3rd party app requirements
- Printers
- Other peripherals
- Data storage location
- PDA?
- Additional drives?
- Other special requirements

- Migration Specifics:

- Customer / Machine info
- Fiber card?
- Static / DHCP
- BIOS version (Dell's only)
- Licensed software
- Encryption

Windows 7 Interview Checklist

Cust. Name:	Cust. Location:	SPRT#:
Cust. Login:	Pickup Time/Date:	Drop Off:
Cust. Phone:	S#:	Comp Name:
Old BIOS Ver:	Old s#:	Comp Loc:
New BIOS Ver:	Fiber? Yes <input type="checkbox"/> No <input type="checkbox"/>	Current O/S:
		Build Type: ZTI: <input type="checkbox"/> Man: <input type="checkbox"/>
		IP/DHCP: <input type="checkbox"/>

Software Requirements

SAMS Software	3rd Party Apps
	Entrust: Yes <input type="checkbox"/> No <input type="checkbox"/>

Hardware Requirements

Printer/Print Servers	Other Peripherals

Data Requirements

SDSS: <input type="checkbox"/>	CommVault: <input type="checkbox"/>	Other: <input type="checkbox"/>	My Docs Loc: <input type="checkbox"/>
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Special Requirements

PDA: <input type="checkbox"/>	Dual Boot: <input type="checkbox"/>	Partitions: <input type="checkbox"/>	Additional Drives: <input type="checkbox"/>
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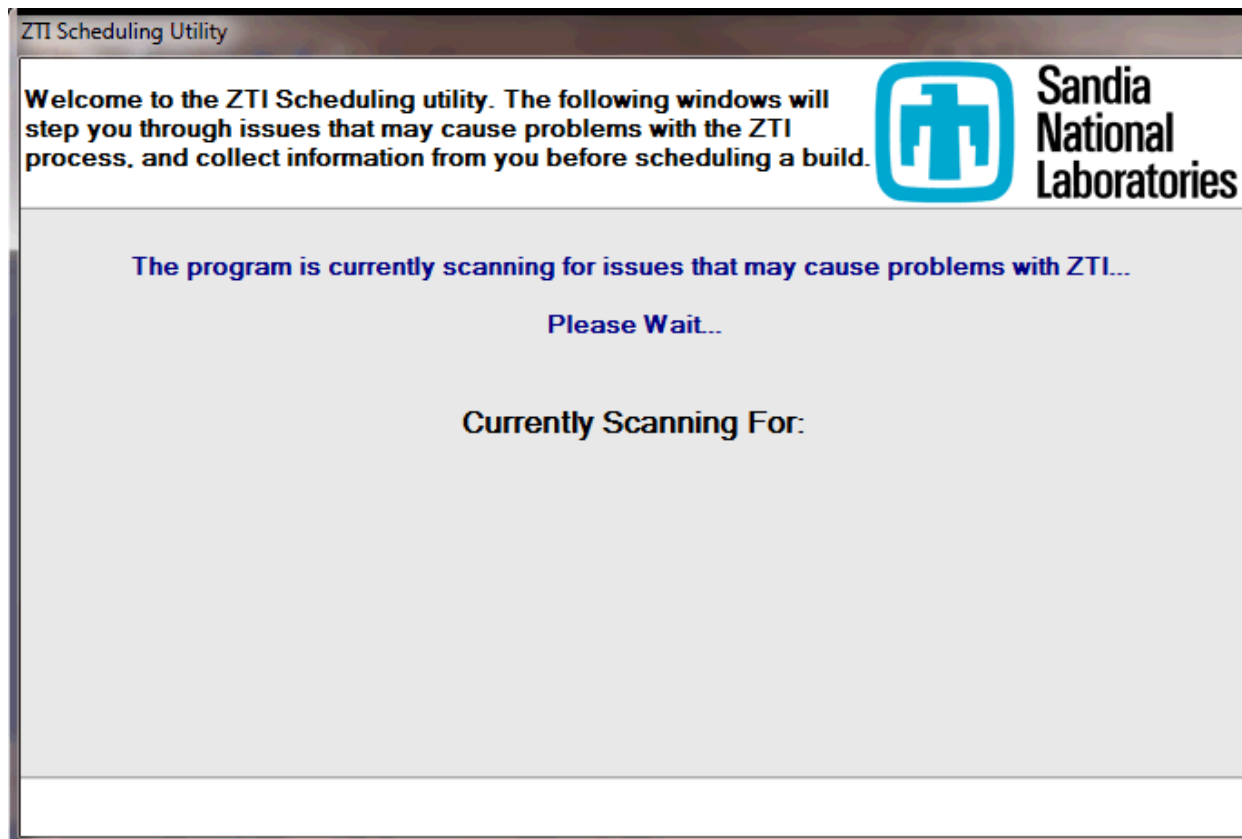
Encryption Requirements

FDE: <input type="checkbox"/>	Credant: <input type="checkbox"/>	Other: <input type="checkbox"/>
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Special Notes or Comments

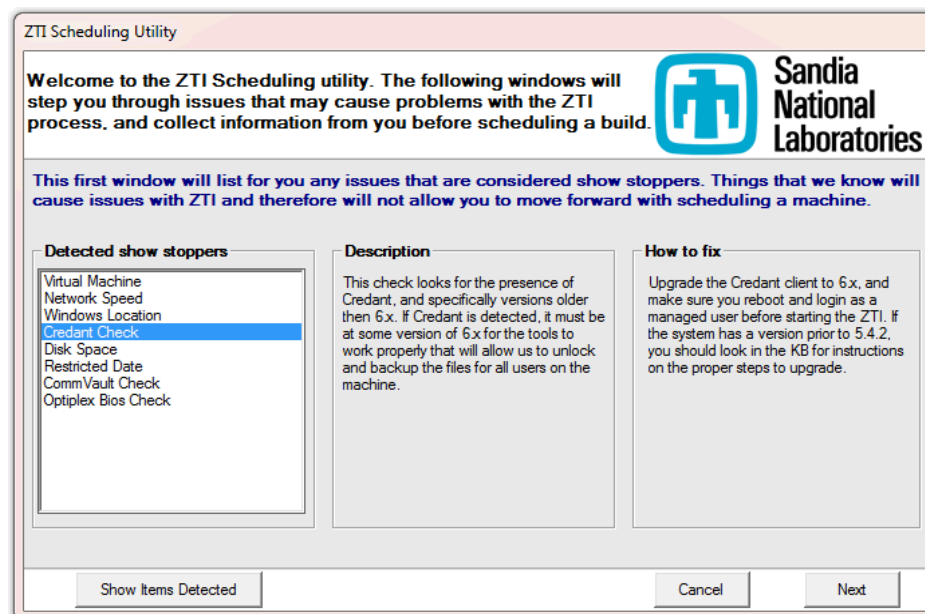
ZTI Scheduling Utility

The ZTI Scheduler conducts a 24 point check to ensure that the system meets all the requirements required to run a migration



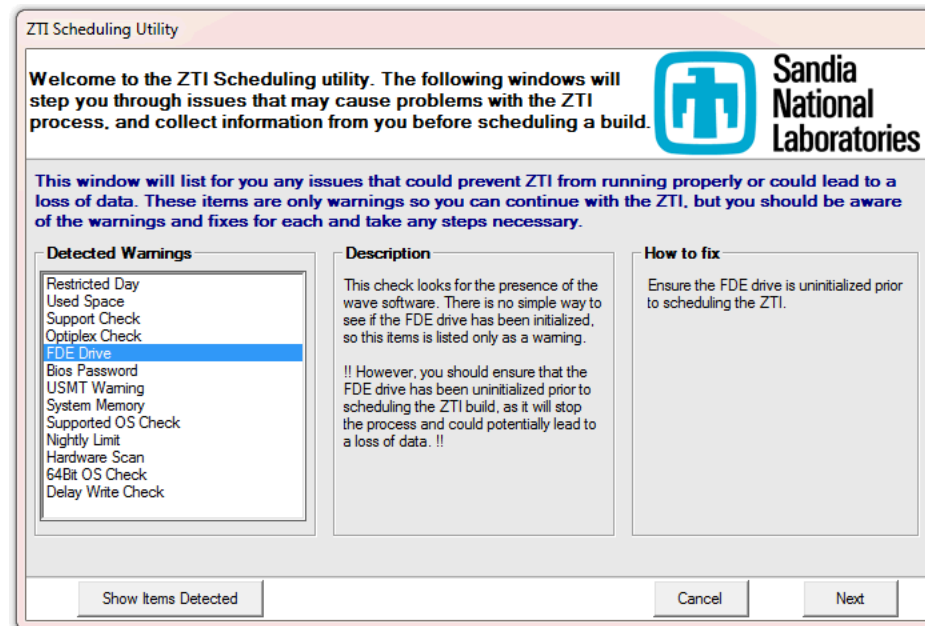
“Show Stopper” Window

- Show Stoppers are a list of items that will prevent a successful migration
- When you click on an item you will see the “Description” and “How to Fix” sections populate with useful information on how to eliminate the show stopper
- Show Stoppers mean just that. You cannot continue with the scheduling process until the show stopper listed has been fixed
 - Normally the left window will be blank, which means there is no Show Stoppers detected
- As shown here, you can click on the “Show Items Detected” button to see this entire list of show stoppers



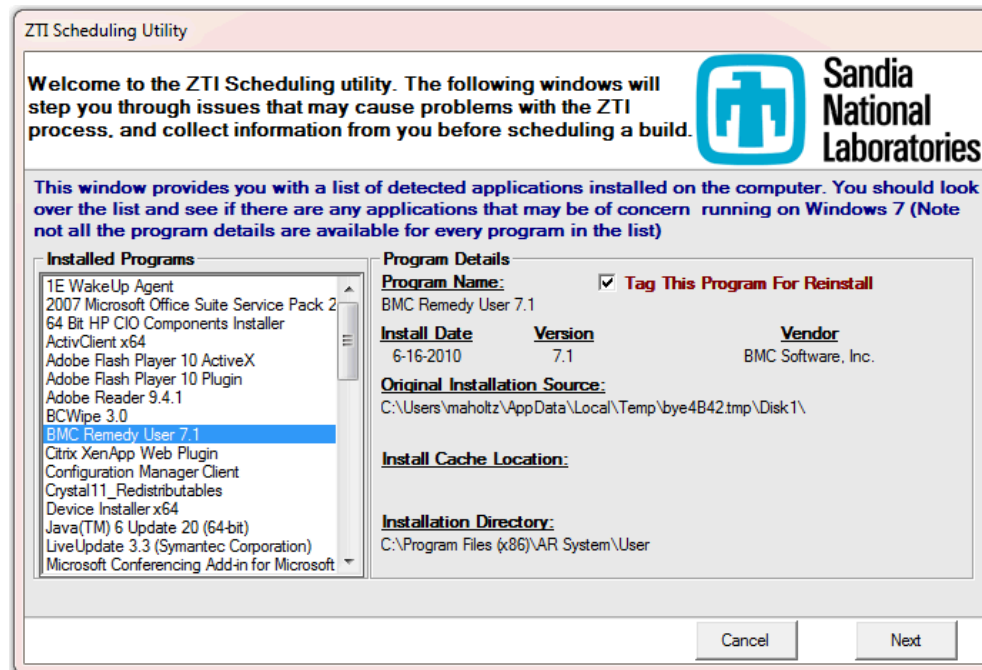
“Detected Warnings” Window

- The Detected Warnings window displays items that may need to be checked to help ensure a successful migration
 - As with the last window, clicking on any item populates the right two areas with “Description” and “How to Fix” information
- These items are only warnings, so you may proceed with the migration process, even though there are some items listed here. It’s just a reminder to make sure you have addressed these items prior to starting the scheduling process



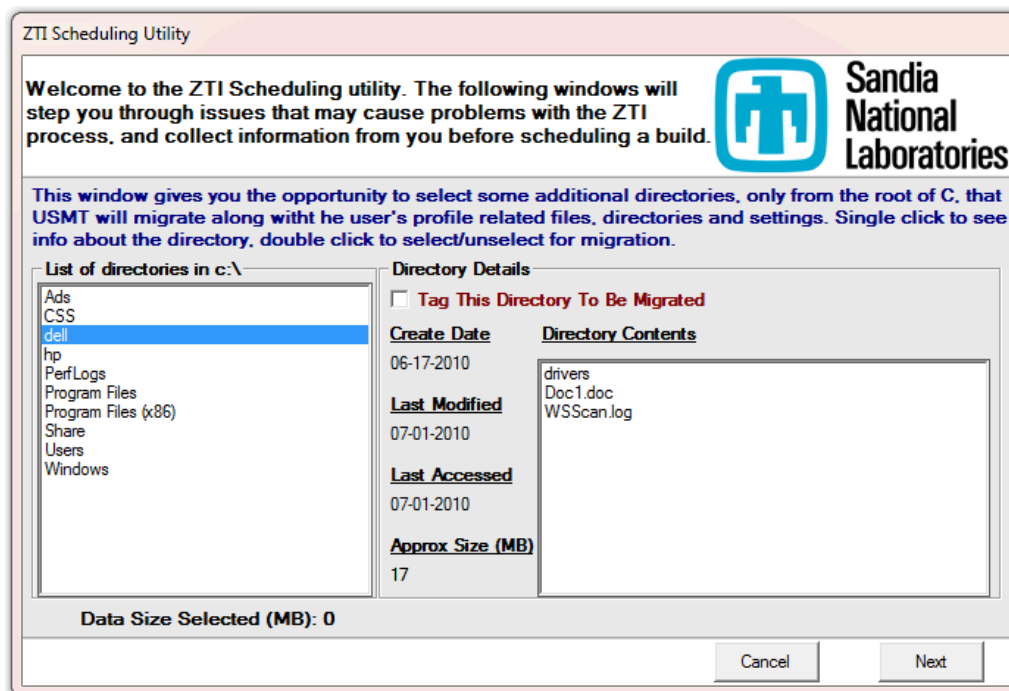
“List of Applications” Window

- This displays a list of all applications listed in the Add/Remove programs listing, (although it may include some additional entries)
- You can select an app and see detailed information about it
 - Details include: Program Name, Install date, Version, Vendor, Install directory, etc...
- You can “Tag” the application to be recorded on a list to be reinstalled later.
 - This list will be saved in a file on the user's desktop, in a folder called “OS Migration Logs”



“List of Directories” Window

- This gives you a list of all directories off the C Drive, so you can select them to be migrated by USMT (Microsoft’s “User State Migration Tool”)
- When you “Tag” a directory, plus tags any sub-directories/files
 - It also displays key information like; Create date, Last modified, last accessed, size and directory contents



“Final Scheduling” Window

- Shows system to be migrated
- Customer & Tech usernames:
 - These are used to determine who will be emailed on the status of the migration
- OS Build: (32 or 64 Bit option)
- When to Run:
 - Default is set to run at 5:45PM, but you can also set it to run ASAP (within an hour) or set a specific time yourself
- The “No Data” option allows you to just do a fresh install of Windows 7

ZTI Scheduling Utility

Welcome to the ZTI Scheduling utility. The following windows will step you through issues that may cause problems with the ZTI process, and collect information from you before scheduling a build.

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This last window is just to collect some information so the ZTI builds can be properly tracked and managed each night. You also have the ability to change the default 64bit build to 32bit if required.

System Name: S892572

Customer UserID: maholtz

Tech UserID: rselev

OS Build: 64 Bit This option is disabled if the system is incapable of running a 64bit OS.

When To Run: ☒ Tonight (Around 5:45pm) ☐ ASAP (In Approx 1 hr) ☐ After This Time:

Don't Backup Data: ☐ **!!! Warning !!!** Selecting this option means the ZTI process will not migrate any data with USMT and will not create a full backup with Commvault.

Cancel Schedule ZTI

ZTI Customer Completion Email

- Lets user know that a tech may be remoted into their system when they arrive and that a tech will be contacting them shortly to do some final configurations with them

- Also has tips for them regarding
 - Where their data is located
 - How to reconnect network printers
 - Other environment related information
 - Provides a link to the Windows 7 training site

Post ZTI Steps - (Pre-customer login)

- Licensed software
 - Licensed software should have been pushed to the system automatically through the advertised programs feature
- Drivers
 - You may have to load some drivers that were not automatically taken care of by the ZTI process
- Non standard apps
 - Install as needed
- PDA's
 - Install "Windows Mobile Device Center"

Post ZTI Steps - (With customer logged in)

- Remote into customers machine while they are logged in and perform the following:
 - Outlook
 - Should be exactly as before migration
 - PST files should have automatically been remapped
 - Printers
 - You may have to switch them to a 64bit print queue
 - Document location
 - You will have to redirect pointer for customer data
 - Test apps with customer
 - Show customer some of the features of Windows 7
 - Snipping tool, Snap, Run/Search, Jump Lists, etc...
 - BVP process

Common Issues

- Port Mismatches
- Fiber cards
- SCCM issues
- Unexpected server or network issues
- Stops during reboot (F1 to continue)
- DNS Issues

ZTI Resource Information

Roman Selever: (ZTI tool/scheduler questions)

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Mark Holtzclaw: (ZTI deployment process questions)

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Ken Lueveno: (Windows 7 software compatibility questions)

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Question???

