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Variations and the MUI in SharePoint 2010

About Me



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Agenda

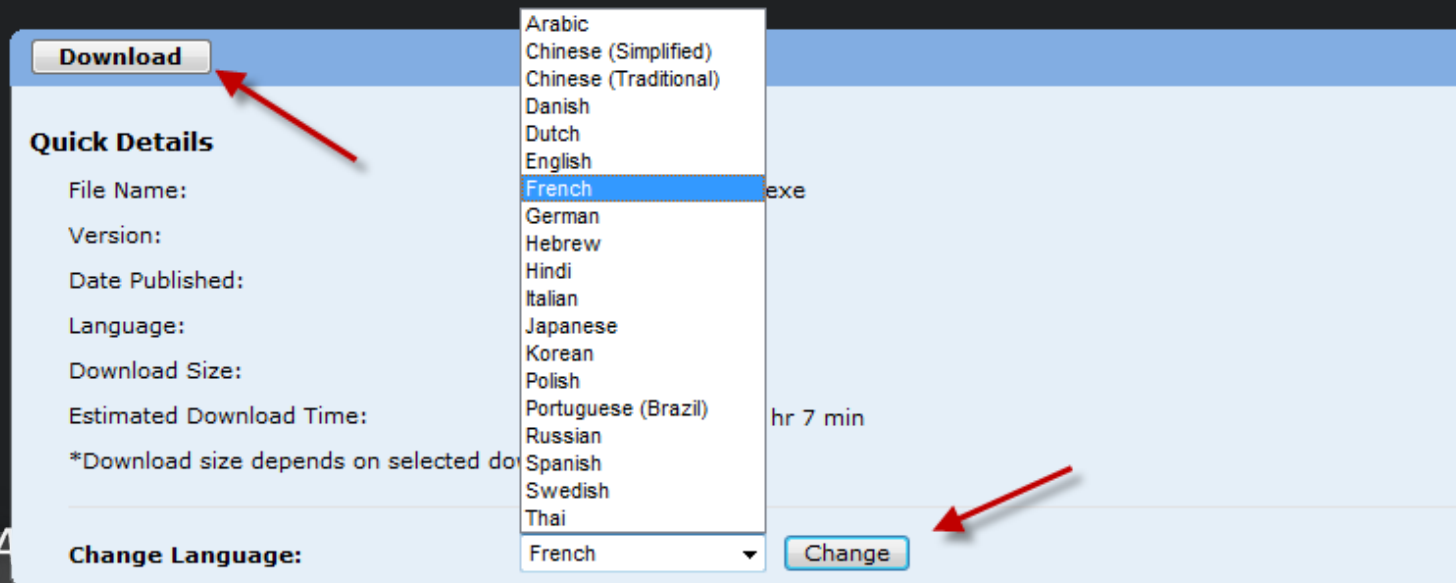
- ⦿ SharePoint 2010 MUI Features
 - MUI Demo
- ⦿ SharePoint 2010 Variations
 - Overview
 - Common Issues
 - Variations Demo
- ⦿ Questions

Language Options

- ◎ Multi-lingual User Interfaces (MUI)
 - Chrome language changes
 - Content does not change
- ◎ Multi-lingual Sites (Variations)
 - Chrome language changes
 - Content changes

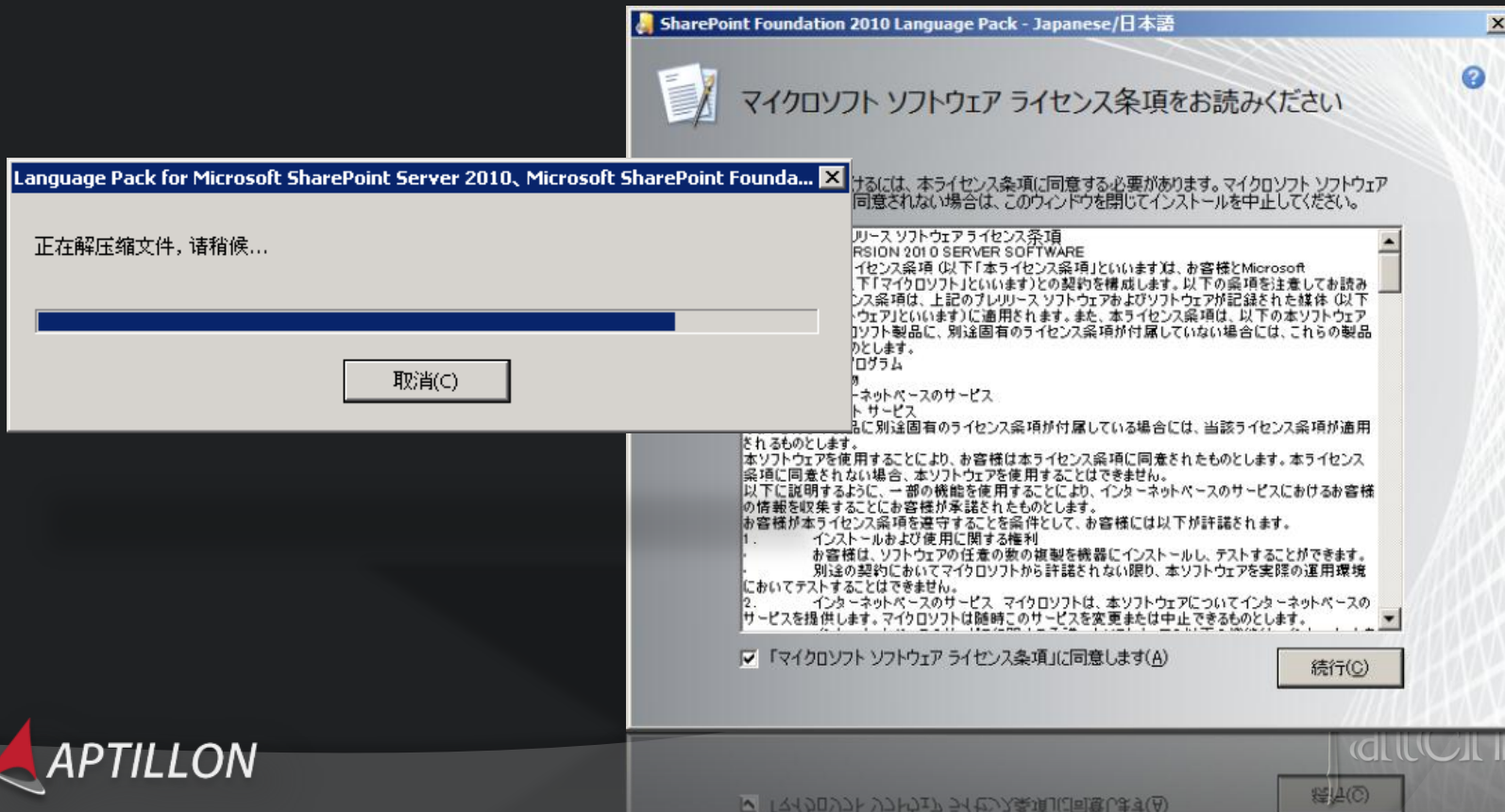
Language Packs

- Download Server Language Packs From:
<http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=046f16a9-4bce-4149-8679-223755560d54>
 - Includes Office Web Apps, Project Server, and Search Server
- Complex Character Sets Require a Windows Language Pack
- Run PSConfig(UI) After all Packs Installed
- Packs Cannot be Removed Once Installed



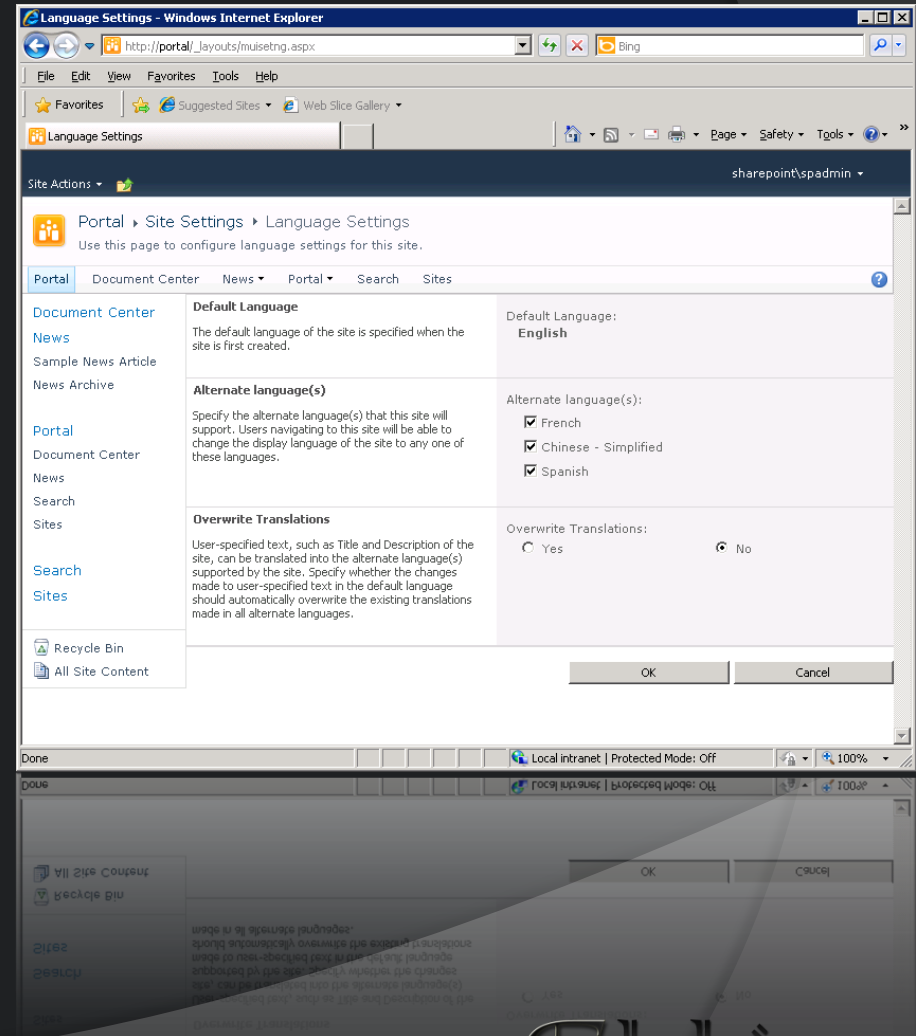
Language Packs

- Language Pack Installer Screens are Displayed in the Specified Language



Multi-Lingual User Interface (MUI)

- Sites can have alternate languages
 - Add new language packs at any time
- Available upon Language Pack installation
 - Enabled by site owners
 - Selectable by user
- Content that is not resource file driven will still be in the source language
 - Use Variations for user content
 - Term store is the exception
- Can Export/Import Translatable Content



Multi-Lingual User Interface (MUI)

- Web scoped
- Central Admin “almost” fully MUI aware
- Not all Site Templates support MUI
 - Blog, Meeting Workspace
 - IsMultiLingual = False
- Use PowerShell to enable across Site Collection(s)



```
var today = new Date();  
var oneYear = new Date(today.getTime() + 365 * 24 * 60 * 60 * 1000);  
document.cookie = "lcid=" + value + ";path=/;expires=" + oneYear.toGMTString();
```

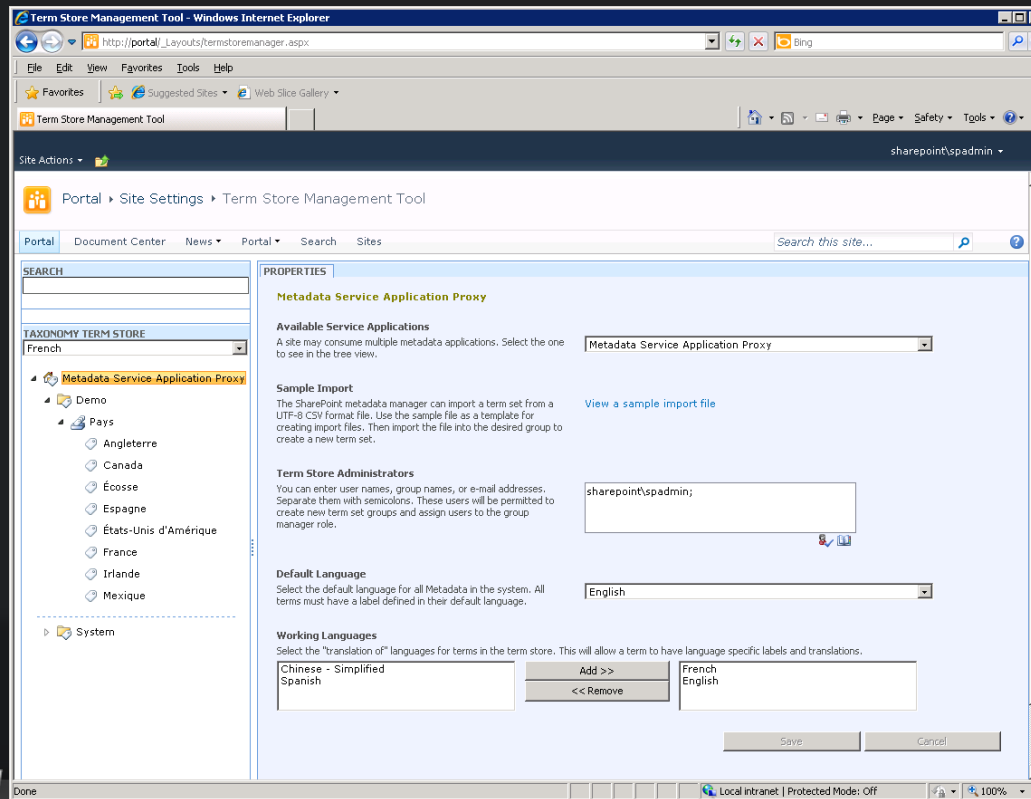

Enable MUI PowerShell Example

```
$cultureInfo = (New-Object System.Globalization.CultureInfo("en-US"), `
               (New-Object System.Globalization.CultureInfo("fr-FR")), `
               (New-Object System.Globalization.CultureInfo("zh-CN")), `
               (New-Object System.Globalization.CultureInfo("es-ES"))

Get-SPSite -Limit All | Get-SPWeb | % {
    $web = $_
    foreach ($culture in $cultureInfo) {
        # There's a bug in the Add method which prevents the change
        # from taking place until we remove first.
        $web.RemoveSupportedUICulture($culture)
        $web.Update()
        $web.AddSupportedUICulture($culture)
    }
    $web.IsMultilingual = $true
    $web.OverwriteTranslationsOnChange = $false
    $web.Update()
}
```

Managed Metadata and MUI

- Terms can have alternate languages
- Editable via Term Store Management



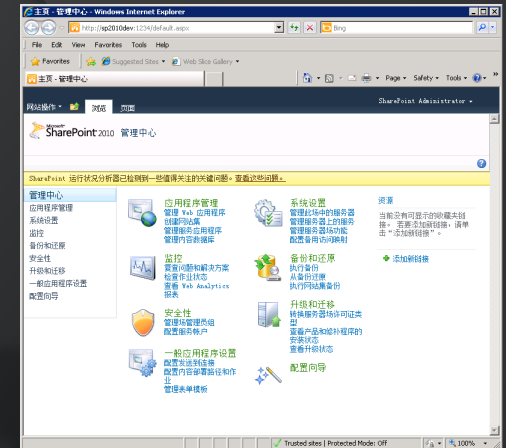
MUI Support

Content	Example	Supported?
Settings & Help	<ol style="list-style-type: none">1. Settings Pages (_layouts, _admin)2. Help3. Images	Supported
Application Content	<ol style="list-style-type: none">1. Menus2. Controls3. Custom Actions4. Web (Title, Description, Icon Description)5. List (Title, Description)6. Top Link Bar (Links)7. Quick Launch (Links, Headings)8. Global Breadcrumb9. Local Breadcrumb10. Managed Metadata (Taxonomy)11. Site Content Types (Name, Description, Groups)12. List Content Types (Name, Description)13. Site Columns (Name, Description, Groups)14. List Columns (Name, Description)	Supported
Developer Content	<ol style="list-style-type: none">1. Features2. Solutions	Supported
User Content	<ol style="list-style-type: none">1. List Item Data2. Permission Levels (Name, Description)3. Groups (Name, About Me)4. Views (Name)5. OOB Web Parts6. OOB Properties (Appearance, Title, etc.)7. Custom Properties	Not Supported

Source: Spencer Harbar - <http://www.harbar.net>

Demo

Multi-Lingual User Interface and the Managed Metadata Term Store



Variations

- ⦿ An Infrastructure Plumbing Feature to Enable Multi-lingual Sites
 - Enabled via Hidden Lists, Event Receivers, and Timer Jobs
- ⦿ Requires a Standard SharePoint 2010 License
 - Utilizes the WCM Publishing Capabilities
- ⦿ Not Just for Multi-lingual Sites
 - Can be useful whenever an alternate version of content is required

Variations Terminology

- ⦿ Variation Home
 - The root site where Variations will be created within
 - Upon hierarchy creation, the Welcome Page is replaced with VariationRoot.aspx
- ⦿ Variation Source
 - Content origination point and default site when no browser match exists
- ⦿ Variation Labels
 - Generic name referring to all variation sites
- ⦿ Variation Site
 - A Variation Label other than the Variation Source

Planning Considerations

- Most Critical Part of the Process
 - Do NOT underestimate how complex a problem Variations are
 - Do NOT bolt on afterwards (design upfront)
- Plan for Custom Redirection Logic Requirements
 - Where and how will you implement this?
- Plan for Client Language Selection
 - Will you allow it and how?
- Translation Process
 - Easily the most complex piece of the puzzle

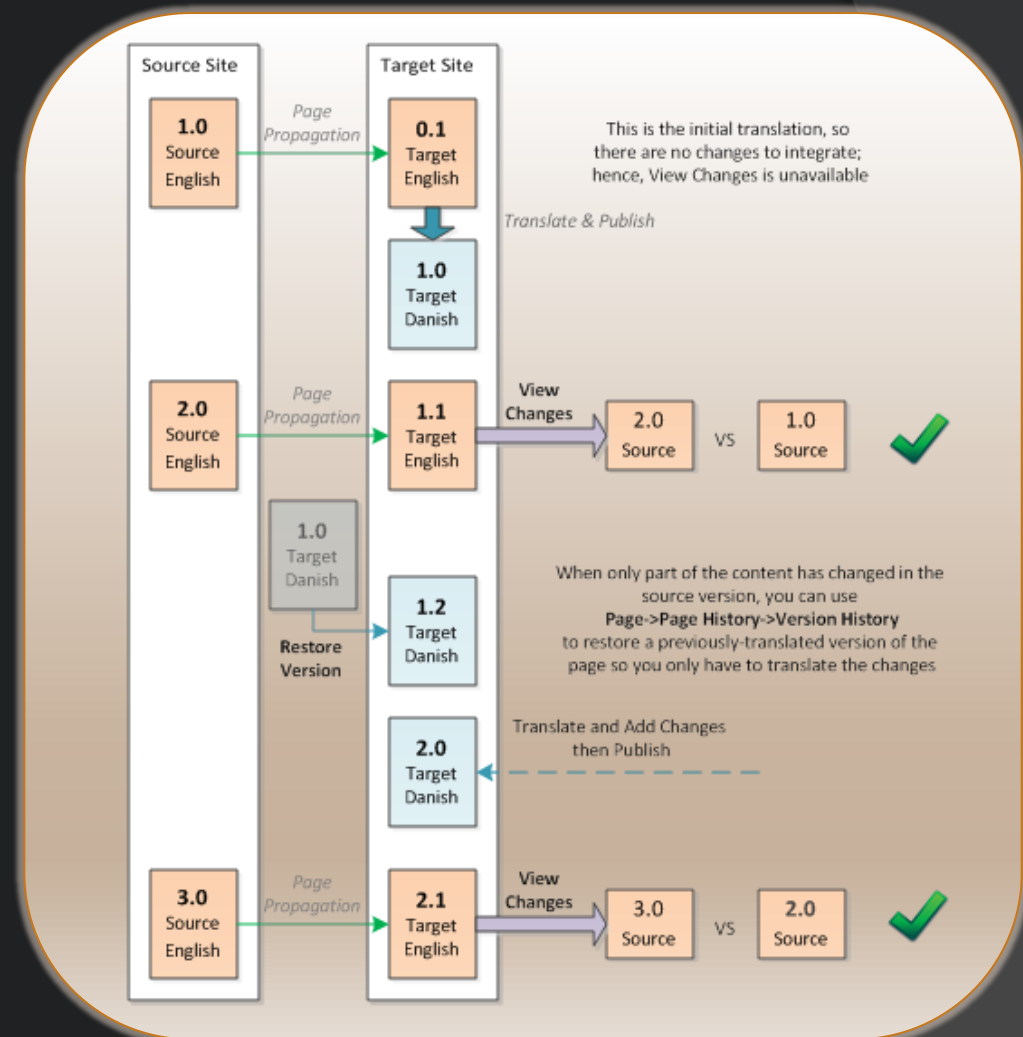
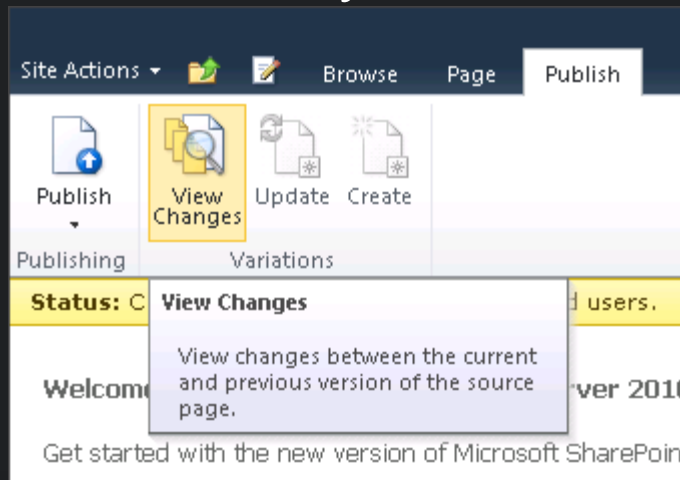
Variations Improvements in 2010

- Hierarchy Creation and Propagation Runs Within a Timer Job
 - In 2007 it ran in process (w3wp.exe)
 - Was a top support issue
 - Processes 100 Work Items per Execution
 - Managed via Central Admin or PowerShell/OM
- Sensitive to Timer Service Restarts
 - Pauses and Restarts as needed
- STSADM VariationsFixUpTool
 - Still needed

Variations Create Hierarchies Job Definition	SharePoint -	██████	Daily
Variations Create Page Job Definition	SharePoint -	██████	Hourly
Variations Create Site Job Definition	SharePoint -	██████	Minutes
Variations Propagate Page Job Definition	SharePoint -	██████	Hourly
Variations Propagate Site Job Definition	SharePoint -	██████	Minutes

View Variation Page Changes

- Shows History of Changes on the Source Site
- Only Available when Source Site has Published Changes Pushed by Timer Job



Page Propagation

⦿ Automatic Creation

- Automatically propagate site and page variations when a site is created or a page is published

⦿ Manual Creation

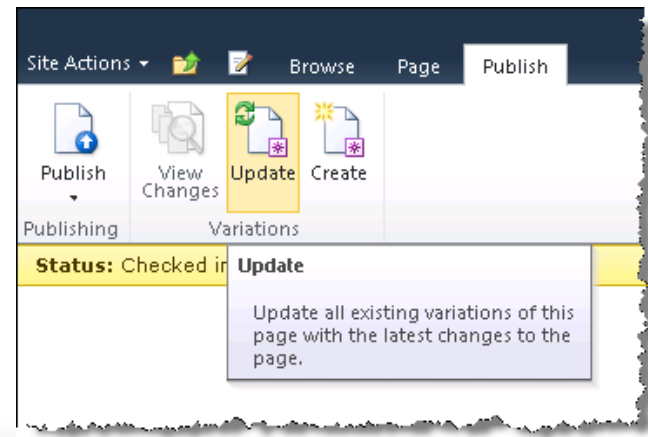
- Manually propagate sites and pages

⦿ On-Demand Propagation

- New in SharePoint 2010
- A “hybrid” approach allowing automatic site creation with manual page updates
- Requires PowerShell to enable

On-Demand Page Propagation

```
$enable = $true
$web = Get-SPWeb http://demo
$folder = $web.Lists["Relationships List"].RootFolder
if ($enable) {
    $folder.Properties.Add("DisableAutomaticPropagation", "True")
} else {
    $folder.Properties.Remove("DisableAutomaticPropagation")
}
$folder.Update();
```



Propagate Pages in Batch

```
$web = Get-SPWeb http://demo/en-US/
$emptyGuid = [System.Guid]::Empty
[System.Guid]$workItemGuid = "EA95AB64-3857-4403-96D0-3AEB3DBDB123"

#Get all your IDs and loop through them calling the AddWorkItem method.
$itemID = 1
$web.Site.AddWorkItem($emptyGuid, `
    [System.DateTime]::Now.ToUniversalTime(), `
    $workItemGuid, $web.ID, $web.ParentWebId, `
    $itemID, $false, $emptyGuid, $emptyGuid, `
    $web.CurrentUser.ID, $null, `
    "FromPowerShell", $emptyGuid)

$job = Get-SPTimerJob VariationsPropagatePage -WebApplication http://demo
$job | Start-SPTimerJob
```

Common Issues with Variations

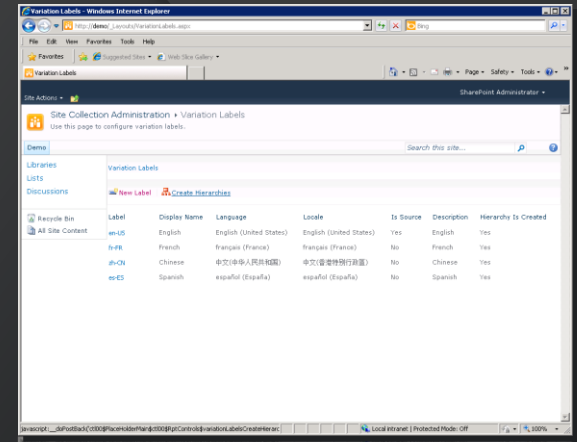
- ⦿ Corruption in the Relationships List
 - Use the STSADM variationsfixuptool (no PowerShell equivalent)
- ⦿ Root Pages/Resources are Still Available
 - Resources will need to be removed, secured, or have custom redirection logic added to the page
- ⦿ Default.aspx Loses it's Page Layout Setting
 - Manual Change, Event Receiver, Workflow, or some other custom logic will be necessary for target labels
- ⦿ The Variation Label Menu is Deprecated and Should Not be Used

Common Issues with Variations

- ⦿ Target Label Sites Cannot be Hidden Upon Hierarchy Creation by Default
 - Need custom redirection logic
- ⦿ Variation Labels are Fixed to Source Language
 - Language selection menus cannot be driven off the variation labels list
 - Create a custom list and menu selection control
- ⦿ Cannot Easily Propagate Pages On-Demand in Batch
 - Use PowerShell
- ⦿ Advanced Redirects may be Required
 - If an exact match on the locale is not identified the user is redirected to the source site
 - Create a custom redirector to handle custom logic

Demo

Exploring Variations Features



Key Takeaways

- MUI is a simple mechanism for providing limited Multi-lingual support
- Variations is much more complex but handles content translation
- MUI and Variations can be combined but watch out for browser defaults when using custom redirects
- Test, Test, and Test
 - When you think you've tested enough then test some more
- Don't underestimate the content translation costs



Thank You!!!

Questions?