



Agency Exchange Cutover & Post Cutover Guide

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Table of Summarized Changes from Previous Versions

Description of Change	Page or Section	Change Effective in Version
Both a new task (Task 17) and a new section (Post-Pilot Cutover) were added to Version 4.	18	4
An appendix was added to the back of this guide to help agencies confirm that the pilot was successful in user testing, and that agency applications are being addressed.	23	4
A second appendix was added to provide a list of applications which have been tested by the agency, or are currently being planned for by the Agency/CTS.	24	4
Clarification has been added to the mailbox move instructions: mailboxes with associated BlackBerry devices must be put into a separate script, and run prior to other mailbox moves during the wave.	11	5
Script for mailbox moves updated	13	5
Script for monitoring mailbox moves updated	13	5
Instructions for mailbox database assignment added	22	5
Guidance for planning agency Exchange decommissioning activities added	23	5
A task has been added to coordinate application integration requests with CTS	22	6

Note: This table represents the substantive changes. Typographical changes have been made throughout the document, but are not included in the change table.

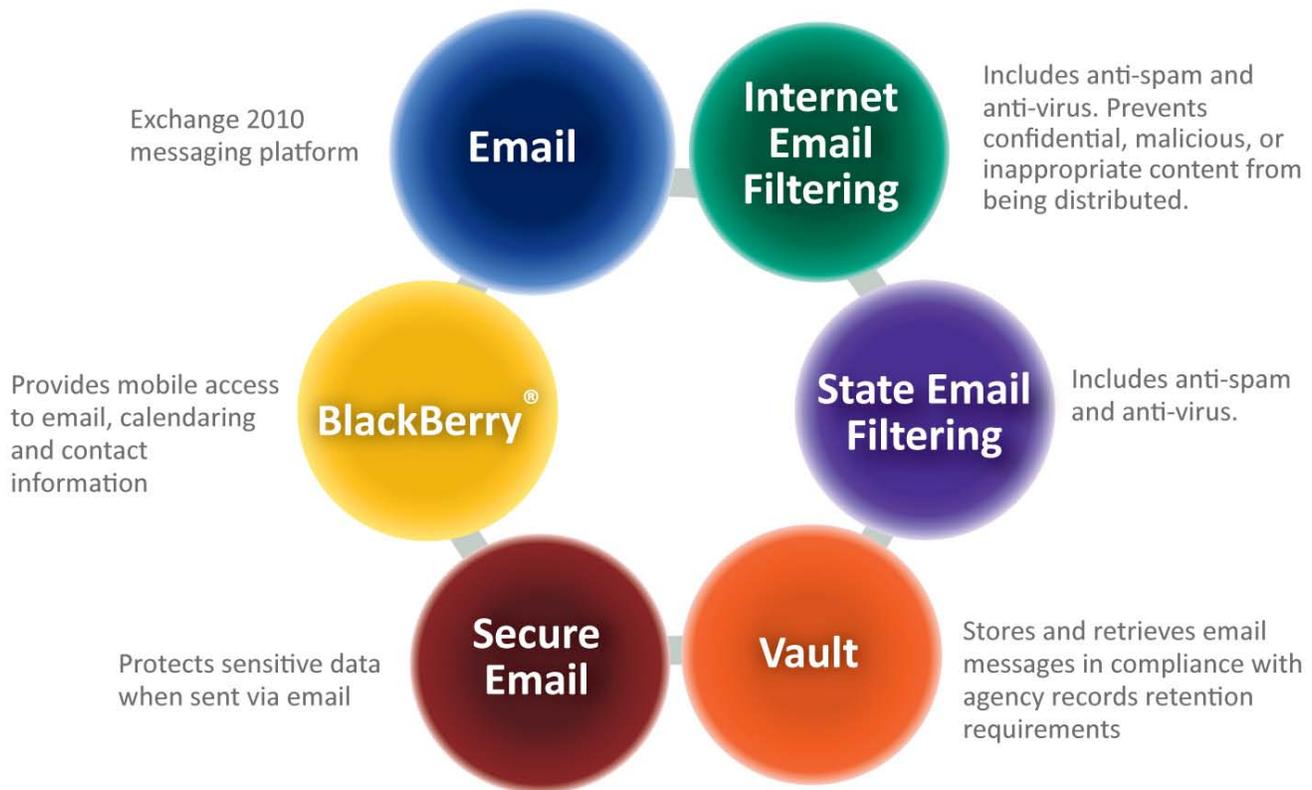
Introduction and Purpose

The purpose of the *Agency Cutover & Post Cutover Guide* is to define the steps that agencies and CTS must perform at the time of cutover and post cutover, for the first phase of the Shared Services Email offering.

This guide documents key activities to be coordinated by the Agency Implementation Coordinator in preparation for migration and following the migration to the Shared Services Email offering. The activities in the guide are summarized in the *Agency Cutover & Post Cutover Checklist* that lists completed activities, and the assertion that the agency has completed migration for Phase 1. The Agency Implementation Coordinator serves as the primary agency contact to the Shared Services Email Project (SSEP) and is responsible for coordinating the internal agency activities stated in the guide.

The Shared Services Email offering is summarized by the following diagram. Phase 1 migration includes email with Exchange 2010, Mail Filtering and BlackBerry® support.

Shared Services Email Project Service Description



This guide documents the tasks for migration and post migration for agencies. These tasks are listed in each section and are summarized in the Agency Cutover Checklist & the Agency Post Cutover Checklist both included at the end of the guide. As you progress through the guide you will see prerequisite tasks that:

- Must be completed by your agency.
- Must be completed in coordination with CTS.

You can identify these tasks located throughout this document as they are marked by a specific icon. In addition, each task will be numbered. The task number will appear to the right of the icon and is included for ease of reference. The table below identifies each icon, a sample task number, and relative description.

Icon	#	Task Description
	1	Tasks that must be completed by the Agency.
	2	Tasks that must be completed in coordination with CTS.

Agency Implementation Coordinators will interface with the Project Client Liaison to review any questions regarding this guide.

Background

On February 10, 2009, Governor Gregoire issued [Governor's Directive 09-02](#), directing state agencies to provide full assistance and support in the development and implementation of a shared services model. The Governor stated that, "Sharing administrative functions between agencies will allow you to focus on your core missions of providing essential services to Washingtonians. I expect that our new shared services approach and governance structure will capture the benefits of economies of scale in a way that ensures good customer service to the client agencies."

In response to the Governor's request to adopt a shared services model and its governance, a Shared Services Email Project was identified and approved by the Shared Services Executive Steering Committee (comprised of sub-set of agency directors) and the Customer Advisory Board (comprised of state agency CIOs). The overall purpose of standing up a new email service is to optimize the value of IT by concentrating like email services from across state agencies into a central service, with the goal of lowering costs and improving service. The new Shared Services Email offering was created through adoption of the Washington State Shared Services Model and identified as a learning experience to improve the shared services model.

This project meets the Governor's directive by providing a shared email service. The outcomes from this effort reinforce the generally accepted benefits for a shared service which include:

- Drive cost and effort out of line and support services, including IT services
- Add value to line and support services
- Leverage existing agency resources, data and processes
- Avoid duplication
- Reduce risk
- Reduce time for problem resolution

Pilot Migration for Agencies

It is assumed that each agency will have a small group of pilot users who serve as a pilot migration for their agency. The pilot size is approximately 5% of users. The pilot will provide a test for approximately a week to review the agency experience post migration. The pilot provides a method for validating the function of the cutover as well as the function of agency applications. Agency Implementation Coordinators will schedule and coordinate the actual pilot migration and agency migration schedule with their Project Client Liaison.

	1	Submit Agency Requested Pilot Migration and Agency Migration Schedule to Client Liaison. Group BlackBerry® Users to the Top of the List.
	2	Confirm Users have been Informed that their Mailboxes will be Migrated and that they should Contact the Agency Help Desk with any Issues or Questions. Remember to Communicate to Users the New Web Addresses for Outlook Web App (OWA). This should Include Communicating to End Users the Junk Mail Address: https://junkmail.wa.lcl

Before the Day of the Migration/Cutover

This section describes the activities that will take place for Exchange Mailboxes, Filtering readiness and BlackBerry® migration prior to the day of the migration/cutover.

This section outlines those tasks that must be completed during the transition from Exchange 2003 to 2010.

	3	Disable Email Address Policies
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Disable Email Address Policies

In Exchange 2010, email address policies are enforced. For users with email addresses that do not match the proposed pattern, this can be problematic. To allow existing users to keep their current email addresses, policy enforcement will be disabled on all existing users. New users, created on Exchange 2010, will be subjected to the policy.

```
## Code to disable mailbox policies for existing users
Get-Mailbox <qualifiers as necessary> | Set-Mailbox -EmailAddressPolicyEnabled $False
```

	4	Set User Properties
---	----------	----------------------------

Set User Properties

At some point in the future, user mailboxes can be re-enabled for address policies if the address that will be enforced by the policy is consistent with their existing address. In addition to the display name attribute, the company attribute has been chosen to be a key field for address policy matches. The following code will modify the company attribute with each agency's agency code. Whatever you type within the quotes will appear on the company attribute.

```
## Set the users' company attribute to the agency code
Get-Mailbox <qualifiers as necessary> | Get-User | Set-User -company "AGY"
```



Change Address Lists and Address Policies to oPath

In Exchange 2003, email addresses are stamped on user accounts by the Recipient Update Service (RUS). RUS uses a best effort approach to stamping addresses, which has resulted in some inconsistency across the user base. In Exchange 2010, all email address policies are enforced and consistently implemented. However, Exchange 2010 requires policies to be written in the oPath syntax instead of the LDAP syntax used in Exchange 2003.

The approach for dealing with this change is to remove the 2003 policy object (that originated from the legacyExchangeDN attribute tied to the Exchange 5.5 site value) and replace it with an agency-specific oPath query. CTS will perform this task.

```
## Grab the policy object, put it in the pipeline and remove it
## These commands should be run per each policy object the agency supports
Get-EmailAddressPolicy -Identity "[Enter Address Policy Name]" | Remove-
EmailAddressPolicy

## Code to create a new email address policy for a sample agency
New-EmailAddressPolicy -name "AGY Users" -EnabledEmailAddressesTemplates
"SMTP:%rAa%rBb%rCc%rDd%rEe%rFf%rGg%rHh%rIi%rJj%rKk%rLl%rMm%rNn%rOo%rPp%rQq%rRr%rSs%rTt
%rUu%rVv%rWw%rXx%rYy%rZz%g.%rAa%rBb%rCc%rDd%rEe%rFf%rGg%rHh%rIi%rJj%rKk%rLl%rMm%rNn%rO
o%rPp%rQq%rRr%rSs%rTt%rUu%rVv%rWw%rXx%rYy%rZz%r'%s@agy.company.com", "smtp:%m@agy.comp
any.com", "X400:c=US;a ;p=Company;o=Exchange;" -RecipientFilter {((RecipientType -EQ
'UserMailbox' -OR RecipientType -EQ 'MailUser') -AND (company -like 'AGY*' -OR
DisplayName -like '*(AGY)')) -OR ((RecipientType -EQ 'MailUniversalDistributionGroup'
-OR RecipientType -EQ 'MailNonUniversalGroup' -OR RecipientType -EQ
'MailUniversalSecurityGroup' -OR RecipientType -EQ 'DynamicDistributionGroup') -AND
(DisplayName -like 'AGY DL*' -OR DisplayName -like 'U-S-AGY*')) -OR (RecipientType -EQ
'PublicFolder' -AND DisplayName -like '*(AGY)')}
```

Day of Cutover/Migration

This section describes the activities that will take place for Exchange Mailboxes, Filtering readiness and BlackBerry® cutover/migration.

This section outlines those tasks that must be completed during the transition from Exchange 2003 to 2010.

Migrate Journaling Functions to Exchange 2010

Users tied to journal mailbox databases in 2003 will need to follow the move procedures as defined in this section. In Exchange 2003, all users on a designated database will be journaled to a single mailbox on an alternate database (where the content is picked up by the vault or other archiving tool). The process in Exchange 2010 can be implemented identical to the 2003 environment, or through journal rules, if the agency has enterprise Client Access Licenses (CALs). All users on the designated journaled database should be moved together.

1. Before migrating the user, check the user's distribution group membership list. Change any distribution group expansion server to use Exchange 2010 if still using 2003. (This should be done as part of the pre-cutover work, but should be verified in larger organizations that process many changes a day).
2. Create new journaling rules on Exchange 2010 to emulate the desired effect of the 2003 journal procedures. In most cases, this will call for a rule to journal everything associated with the user. Journaling by rule requires an enterprise CAL. If standard journaling will be configured in Exchange 2010, the user will have to move to a designated database for which journaling is enabled.
3. Submit the new move request.
4. Exchange 2003 journaling will stop automatically once the user resides on the 2010 servers.
5. Ensure all content is vaulted from the 2003 journal mailbox before retiring the mailbox.

	6	Validate Naming Conventions for Directory Objects
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Validate Naming Conventions

The provided code sample is report code only. If exceptions are generated from the report, you will need to make the required changes.

The following PowerShell cmdlets can be used to identify objects in your directory that might create problems during the migration as they fall outside of state naming standards.

```
## Focus the administrative scope on the agency domain
Set-ADServerSettings -RecipientViewRoot "agy.wa.lcl"

## Get the DLs whose display names don't match the standard
Get-DistributionGroup | WHERE {$_.DisplayName -NotLike "AGY DL*" -AND $_.DisplayName -
NotLike "U-S-AGY*"}

## Check for DLs that are not universal in scope
Get-DistributionGroup | WHERE {$_.GroupType -NotLike "Universal*"}
```

	7	Export Mailbox Dumpsters
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Export Mailbox Dumpsters

If any users have been identified for preserving mailbox dumpster contents (which won't be migrated by default), they will need to have their 2003 mailboxes exported to a .pst file prior to migration. Be sure that the Exchange Trusted Subsystem has permissions on the server where .pst files will be created.

```
## To dump the contents of selected mailboxes...
New-MailboxExportRequest -mailbox [alias] -FilePath \\server\share\file.pst
```

	8	Move Mailboxes (Validate that RPC/HTTP is Turned On at the Client)
	9	Confirm BlackBerry® Users have been informed to have Devices Powered On, Fully Charged, Within Coverage Area.
	10	CTS Migrate BlackBerry® Devices

Move the Mailboxes and Migrate BlackBerry® Devices

Each wave of the mailbox move process should be documented in its own CSV file. Users will be distributed across the available databases to maximize throughput and properly balance the load. Unlike previous versions where moves happened in real time, Exchange 2010 uses the Move Request feature, which queues the request for a background process. **Note:** The move request cmdlet is documented at the following address: <http://technet.microsoft.com/en-us/library/dd351123.aspx>. While this difference doesn't make the move process any slower, it does require a slightly different approach to managing the move process. BlackBerry® migrations need to also occur. Specifically, agencies will need to do the following:

1. The preferred approach for agencies deploying in waves is to import the CSV file for each wave into the PowerShell pipeline and submit the generic move request. **Note:** Move requests and troubleshooting guidance is provided at <http://technet.microsoft.com/en-us/library/dd876924.aspx>
2. For each migration wave, create two CSV files:
 - a. One for BlackBerry® users
 - b. One for non-BlackBerry® users.
3. Create and submit the initial move request using the New-MoveRequest cmdlet for the CSV file *including* BlackBerry® users.
4. *After* the move request for the BlackBerry® users has completed, create a second move request using the New-MoveRequest cmdlet for the CSV file for non-BlackBerry users.
5. Check the status of move requests.
6. Failed move requests may require some changes to the code as documented below. Use the information at <http://technet.microsoft.com/en-us/library/dd638094.aspx> to troubleshoot failed mailbox moves. Some of the necessary code changes are documented below. DO NOT use additional parameters unless you are specifically troubleshooting an identified problem.
7. At the time that mailboxes are being moved, the associated BlackBerry® migrations need to occur. The following procedures should be followed as part of migrating mailboxes linked to BlackBerry® devices.

-
- a. Reminder: Provide CTS with a list and schedule identifying which users mailboxes will be migrated on a specific date/time and specify which users are BlackBerry® users 30 days prior to the first scheduled migration date.
 - b. Recommend that all BlackBerry® users be migrated in 'groups' on specific date/times.
 - c. Customer agency needs to notify all BlackBerry® customers prior to BlackBerry® migration of 3 important items:
 - i. Devices must be powered on.
 - ii. Devices should be fully charged.
 - iii. Devices must be in coverage.

Note: The pre-migration items detailed above are required to ensure a successful BlackBerry® migration. If not, then the migration of the BlackBerry® device/user may fail. This would require coordinating another migration of that device/user with CTS, or reactivation of the device on the CTS 2010 BlackBerry® servers.

Note: It is highly recommended that you have a user with a BlackBerry® available to test and validate the BlackBerry® is functioning properly post migration.

If a BlackBerry® is not successfully migrated the night the user's mailbox is moved, then:

- CTS will email agency BlackBerry® support staff immediately following a failed BlackBerry® migration identifying the user. BlackBerry® migration logs can usually identify the nature of the failure – i.e., device out of coverage/powered off, etc. – and this information is provided to the agency support staff in the email.
 - Agency support staff have 2 options:
 - a. Take appropriate steps to ready device for migration and request that CTS attempt a 2nd migration of the impacted user.
 - b. Delete user from customer agency BES and then send a request to CTS to add a new user to the BlackBerry® service. **Note:** Please attach the BlackBerry® New/Cancel request form to your email to the CTS Service Desk ServiceDesk@cts.wa.gov .
8. Remove mailbox move requests upon successful completion of the migration. Requests may be deleted sooner if desired, but all requests should be cleared at the end of the migration.

Note: If you want to use an automated approach to scheduling the mailbox moves, please coordinate that with your Implementation Coordinator.

The following code is the actual move request for mailboxes. It calls for the CSV created in previous steps and should match the variables you used (e.g. \$MB or \$Alias). It is suggested that mailboxes start with a -BadItemLimit of 10. You may use the -WhatIf statement at the end for testing purposes. If the script fails, ensure you have proper credentials.

```
## Ensure your scope is proper for your agency (change "agy" to proper agency code)
set-adserversettings -recipientviewroot agy.wa.lcl

## Open the CSV file per wave and submit the mailbox move request

ForEach ($MB IN Import-CSV c:\path\file.csv) {

    ## The most basic Move Request - specify the DIS-hosted GC
    New-MoveRequest -Identity $_.Alias -DomainController agyGcOly2010.agy.wa.lcl

    ## Additional parameters to add if the basic move fails. These won't fix
    ## every problem, but should fix the majority of mailboxes.

    ## Add to the new-MoveRequest cmdlet when appropriate
    ## -BadItemLimit 10

    ## -BadItemLimit 100 -AcceptLargeDataLoss
    ## -AcceptLargeLoss is required for large number of bad items

    ## -IgnoreRuleLimitErrors #requires rebuilding client rules
}


```

The following commandlets will help you during and after the move request is made.

```
## To view the status of all move requests
get-moverequest

## To check on the status of move requests not complete
get-moverequest | where{$_ .status -notlike "complete*"}

## To specifically seek move requests in a failed state
Get-MoveRequest | where{$_ .status -like "failed"}

## To verify that all mailboxes have been moved (this is an exceptions report)
get-mailbox | where{$_ .RecipientTypeDetails -like "legacy*"}

## To generate a short real-time report on in process or complete move requests
Get-MoveRequest | Get-MoveRequestStatistics | where{$_ .status -notlike "failed"}
```

The following code generates a status report and automatically sends it to your administrator. Include the distribution list (DL) alias to the List in the "To Parameter of the send-mailmessage cmdlet." If you are sending to external recipients, the SmtServer that you specify must be configured to allow relay of the IP for the admin workstation on which you are running the Send-mailmessage cmdlet. If you are only sending to internal recipients, your Exchange 2003 server should work.

```
#####
## Save code as Send-MoveReport.ps1 ##
## Usage: .\send-moveReport.ps1 ##
## Parameters: None ##
## Author: Mark Dougherty ##
## Create Date: June 2010 ##
#####
## Make sure to scope for your agency
set-adserversettings -recipientviewroot AGY.wa.lcl
```

```

## Create a new variable and assign it to the output of the get-MoveRequestStatistics cmdlet
$stats = Foreach ($_.Alias in Import-csv c:\path\file.csv) {
Get-MoveRequestStatistics -Identity $_.Alias |
Format-Table alias,status,percentcomplete,baditemsencountered,failuretype -AutoSize
}

## Push the output of stats to a string for use in the body of the email
$stats=$stats | out-string

## Send email message with report. Change the FROM and TO parameters. If you need multiple
## recipients, separate with commas (no spaces between recipients)
send-mailmessage -from you@agy.wa.gov -to who@agy.wa.gov -Subject "Mailbox Move Completion Report" -body $stats -SmtServer [hostname]

```



11 Enable Single Item Recovery

Clean up the Mailbox – Enable Single Item Recovery

A number of property overrides may exist in the agency's 2003 environment that must be made consistent in the 2010 environment. These tasks must be completed during the move process. Ideally you would enable single item recovery immediately following a wave of mailbox moves. Optionally, you can enable single item recovery on all of your 2010 mailboxes without using an import file. Sample code is provided below:

```

## Import the same CSV file that was used to submit move requests
Foreach ($MB IN Import-CSV c:\path\file.csv) {

## For each mailbox returned, clean up and make settings consistent
Set-mailbox -identity $MB.name -SingleItemRecoveryEnabled:$true

}

##Option to set singleitemrecovery on all 2010 mailboxes
get-mailbox -RecipientTypeDetails usermailbox | set-mailbox -SingleItemRecoveryEnabled $true

##Verify that all mailboxes have SingleItemRecoveryEnabled set to true

get-mailbox -RecipientTypeDetails usermailbox | ?{$_.SingleItemRecoveryEnabled -like "false"}

## This code is run by CTS separately to set the mailbox quota to the db defaults
## It is not part of the mailbox cleanup process for agencies
Foreach ($MB IN Import-CSV c:\path\file.csv) {

Set-mailbox -identity $MB.name -UseDatabaseQuotaDefaults:$true

}

```

Important: Enabling Single Item Recovery ensures that deleted items are recoverable without using backup media. More information can be found at the following links:

[http://technet.microsoft.com/en-za/library/ee364755\(en-us\).aspx](http://technet.microsoft.com/en-za/library/ee364755(en-us).aspx)

<http://blogs.technet.com/b/exchange/archive/2009/09/25/3408389.aspx>



Disable Junk Mail Filtering for All Mailboxes

IronPort is used by the State of Washington as the message hygiene gateway for spam and viruses. Exchange 2010 also has hygiene functionality built-in. Because these two products handle spam differently, it is necessary to turn off the built-in features to provide users with a single repository for managing spam. This is accomplished by disabling junk mail features in both Outlook and Exchange (OWA). This change should be done at the end of your migration. Notify your users of the date of the change and let them know to begin using <http://junkmail.wa.lcl> to manage their junkmail and safe and blocked lists.

Update your agency's GPO for Outlook settings to ensure that junk mail filtering is disabled. To configure Outlook Junk Email Filter settings in Group Policy

1. In Group Policy, load the Office Outlook 2007 template (Outlk12.adm) and go to User Configuration\Administrative Templates\Microsoft Office Outlook 2007\Tools | Options...\Preferences\Junk E-mail.
2. Configure the following settings.
 - a. Hide Junk Mail UI = disabled
 - b. Junk E-mail protection level = Enabled
 - c. Select level = No Protection

More information about configuring Outlook settings for junk mail can be found at [http://technet.microsoft.com/en-us/library/cc179183\(office.12\).aspx](http://technet.microsoft.com/en-us/library/cc179183(office.12).aspx).

OWA junk mail settings must also be turned off so as not to conflict with the Ironport functionality. They are separate from the junk mail settings in the Outlook client. They can be set on a per mailbox basis.

```
#####
## Preferred Method  ##
#####

## Clear Junk Email Settings on all 2010 mailboxes
get-mailbox -RecipientTypeDetails usermailbox | Set-MailboxJunkEmailConfiguration -
Enabled $false -TrustedSendersAndDomains $null -BlockedSendersAndDomains $null

## Set OWAMailboxPolicy on all 2010 mailboxes
get-mailbox -RecipientTypeDetails usermailbox | Set-CASMailbox -OwaMailboxPolicy "OWA
NoJunk Mailbox Policy"

#####
## Code below is an alternate method using an input file #
#####

## disable the OWA junk mail filtering functionality (script uses
## the same csv file as mailbox moves). Be sure to rename the
## file before importing.

ForEach ($MB IN Import-CSV c:\path\file.csv) {

Set-MailboxJunkEmailConfiguration -Identity $mb.Name -Enabled $false -
TrustedSendersAndDomains $null -BlockedSendersAndDomains $null

## Sets an OWAMailboxPolicy that has JunkEmailEnabled set to false.
Set-CASMailbox $mb.name -OwaMailboxPolicy "OWA NoJunk Mailbox Policy"
```

```
}
```

If you receive the error noted below when running the Set-MailboxJunkEmailConfiguration cmdlet you can safely ignore it. This error is displayed for mailboxes that have never logged into OWA.

" The Junk E-Mail configuration couldn't be set. The user needs to sign in to Outlook Web App before they can modify their Safe Senders and Recipients or Blocked Senders lists."

More information about MailboxJunkEmailConfiguration cmdlet is located at <http://technet.microsoft.com/en-us/library/dd979780.aspx>

	13	Agency End User Testing
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Agency End User Testing

Agency End User Testing information is available upon request. This information can be obtained by contacting your Project Client Liaison.

	14	Validate Your Non-SMTP Agency Applications
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Validate Your Non-SMTP Agency Applications

Any applications which perform actions other than sending out emails via SMTP will have been discussed with CTS during your pre-cutover planning phase, and an Action Plan created where required. CTS will engage with agencies in planning activities for agency applications, and provide any necessary application-specific testing instructions. Prior to migration, all Action Plan activities will need to be completed, and testing activities completed. It is assumed that, where possible, you have updated your agency applications and have documented test plans to test these applications.

Any application which has been updated by your agency to work with the Shared Service Email offering should have its integrated functionality validated post-pilot and again post-migration validation testing should be the final step for publishing updated applications which integrate with the Shared Service Email offering.

	15	Convert Agency FA mailboxes to Room Mailboxes
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Convert Agency FA Mailboxes to Room Mailboxes

In Exchange 2010, the system recognizes resource mailboxes. It's actually an attribute of the mailbox that can be any of the following values:

- Regular
- Room
- Equipment
- Shared

Converting the mailbox to a non-regular (single user) mailbox is simple and can be handled using the following code.

```
## Converts mailbox with ConfRoom1 alias to a Room type mailbox
Set-Mailbox ConfRoom1 -Type Room

## Converts all facility mailboxes to a Room type mailbox
Get-mailbox "AGY FA *" | ?{$_RecipientTypeDetails -eq "UserMailbox"} | Set-Mailbox -
Type Room

## Or, if we have a separate list of just those requiring conversion
## assume a csv file format of Name,mbType

ForEach ($MB IN Import-CSV c:\path\file.csv) {

Set-Mailbox -Identity $MB.Name -Type $MB.mbType

}

}
```



16 Setup Calendar Processing and Auto-accept

Setup Calendar Processing and Auto-accept

Configuring mailboxes to automatically accept meeting requests is a process that is built-in to Exchange 2010 (it required third party agents or the auto-accept agent in Exchange 2003). It can be configured from Outlook Web Application by end users for the resource mailboxes they control. However, it may also be desirable to have all resource mailboxes configured after the migration. The Resource Booking Attendant can accept or decline resource requests based upon policies that you create. If the Resource Booking Attendant is enabled, it uses the booking policies to determine if incoming requests will be accepted or declined. If the Resource Booking Attendant is disabled, the resource mailbox's delegate must accept or decline all requests. Prior to setting up the book agent, you will need to log into each facility mailbox and remove existing delegates that were established in the 2003 environment.

Depending on your specific needs, the following links can be used to understand the PowerShell cmdlets necessary to make bulk changes to resource mailboxes.

Calendar processing: <http://technet.microsoft.com/en-us/library/dd335046.aspx>

Auto-reply: <http://technet.microsoft.com/en-us/library/dd638217.aspx>

Automatic booking agent: <http://technet.microsoft.com/en-us/library/bb123495.aspx>

Note: If your agency requires the functionality provided by the Microsoft Auto Accept Agent (or third party equivalent), you will need to configure calendar processing immediately after the mailbox move to retain the functionality.

Post-Pilot Cutover

	17	Complete and Submit Acceptance Document
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Prior to your Pilot migration, your Client Liaison will send you a post-pilot acceptance document (included in this document as [Appendix 1](#)). The document captures the shared understanding that the agency's pilot has successfully validated the migration of email boxes and BlackBerry®, and that agency applications are being addressed by the agency and by CTS. As an attachment to the Acceptance Document, the agency will provide a list of all applications tested, and other agency applications being discussed and planned for with CTS at the time of Pilot migration (a template for this list is included in this document as [Appendix 2](#)).

When the agency submits the Acceptance document electronically, CTS will also perform validation activities. Once those are complete, your Client Liaison will notify you that further migration waves may proceed.

Post Cutover / Migration Tasks

	18	SMTP Relay Migration
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SMTP Relay Migration

Agencies migrating to IronPort for inbound and outbound filtering will have the option to point applications and servers requiring SMTP relay to IronPort. The solution will allow for redundancy and throttling. It is important for agencies to identify their needs and migration paths internally.

This task does not need to be completed at the time of your migration. You can continue to use your existing infrastructure for relay until you are ready to switch. You should begin identifying your relay needs as soon as possible as you will be unable to decommission servers in your environment that support SMTP relay until you have pointed all devices and applications requiring relay to IronPort.

In order to place servers and applications into the allowed relay senders list, agencies will need to provide the following information:

Server Name:
IP Address:
Technical Contact:
Potential for High Volume (Y/N):
Function for Relay:
Standby Server (Y/N):

Agencies may send requests to the CTS Service Desk when the service has been made available.

Testing SMTP Applications

Any application which send out emails via SMTP should be tested after migration to the new SMTP Gateway. As stated above, this is not anticipated at the time of mailbox migration. Applications should be tested to ensure that they can send mail both internal to your organization and external to your organization. Any questions should be reviewed with your Client Liaison as you coordinate your SMTP Relay Migration.

	19	Change/Create SPF Record
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Change / Create SPF Record

The Sender Policy Framework is a mechanism used to identify spam. **Note:** Sender Policy Framework syntax is documented at http://www.openspf.org/SPF_Record_Syntax. “ ” is an adaptation of the information on that site. Each agency creates an SPF record in DNS that recipient organizations can query to determine whether a sending host is a valid host in the organization. The host can be internal or external and multiple mechanisms are available for use when writing the SPF record.

SPF works when the recipient host queries the sending domain's SPF record. The value returned by the DNS server is compared with the known properties (host name, IP address) of the sender and an appropriate action taken. SPF return values and actions are explained on the following page.

Return	Explanation	Action
Pass	The SPF record designates the host to be allowed to send	accept
Fail	The SPF record has designated the host as NOT being allowed to send	reject
SoftFail	The SPF record has designated the host as NOT being allowed to send but is in transition	accept (mark)
Neutral	The SPF record specifies explicitly that nothing can be said about validity	accept
None	The domain does not have an SPF record or the SPF record does not evaluate to a result	accept
PermError	A permanent error has occurred (eg. badly formatted SPF record)	unspecified
TempError	A transient error has occurred	accept or reject

Table 1 - SPF Record Return Values and Associated Actions

Examples of possible SPF records are listed below.

```
## Allow only those machines in your agency's MX records; prohibit all others
agy.wa.gov. TXT "v=spf1 mx -all"

## Allow machines associated with MX record; neutral on all others
agy.wa.gov. TXT "v=spf1 mx ?all"

## All DIS subnet and all agency MX records; prohibit all others
agy.wa.gov. TXT "v=spf1 ip4:192.168.0.1/16 mx -all"
```

After reviewing openspf.org (http://www.openspf.org/SPF_Record_Syntax) and creating the correct spf record syntax for your organization, you will need to submit a request to CTS Service Desk to implement that change. As explained earlier this is a DNS change and will need to be implemented by the Security Perimeter Group at CTS.

Agency Help Desk/Service Cutover & Post Cutover



20

Begin use of CTS Service Desk for Tier 2 Support Requirements.

The Agency Pre-Cutover Readiness Guide described the support that agency help desks would be providing to their end users. Should the user have an issue post cutover, it is assumed that they will contact their agency help desk for assistance. If the agency is unable to resolve the problem after completing Tier 1 troubleshooting steps, they will escalate to the CTS Service Desk. The CTS Service Desk, available 24x7, is the single point of contact for customer requests, problem reporting, escalation, and notification. Regardless of severity or impact, all incidents which fall outside of normal operating parameters will be reported and handled according to established procedures.

Phone: (360) 753-2454 or 1-800-241-7597

Email: Servicedesk@cts.wa.gov

When contacting the CTS Service Desk via phone please provide the *Service* and *Priority* of the issue:

- **Shared Service Email Offering;** Exchange 2010/email; Vault; Filtering, Secure Email issue
- Normal (immediate response not required)
- High (degradation of service, work stoppage, high impact to staff)
- **Note:** Recommend calling the CTS Service Desk for High Priority issues

When contacting the CTS Service Desk via email:

- Use the subject line in email to emphasize the *Service* and *Priority* of the issue

Creating New Mailboxes in Exchange 2010



21 Creating New Mailboxes using Exchange 2010 Administrative Tools

Post-migration, agency Exchange administrators may use Power Shell or the Exchange 2010 GUI to create new mailboxes. Tools in Power Shell will automatically assign the mailbox to an appropriate server within the shared service environment. Administrators are given an option to manually select the mailbox database within the GUI. Best practice is to allow Exchange to automatically select the mailbox database. If an administrator manually selects the mailbox database, they must select one of the servers named beginning with "DB." A server named beginning with "EV" must not be selected. The "EV" databases listed are Enterprise Vault servers.

Application Integration Requests



22 Coordinate Application Integration Requests with CTS

Agencies who wish to implement applications that interface with Exchange or Outlook on the desktop should coordinate with CTS early in their planning and design processes, through request to the Project Client Liaison. The SSEP previously provided agencies the *Application Integration Readiness Template* as a tool to assist in the identification, documentation and assessment of applications prior to migration into the Shared Service environment. Similar information will be gathered from agencies to evaluate the compatibility of any additional applications that agencies wish to use that interface with email.

CTS will review submitted materials to determine if additional discussion and analysis is required with the agency (e.g., non-SMTP applications, or high-volume SMTP applications). The Project Client Liaison will schedule a review with the agency to discuss these applications, if required.

Likely Supported Interface Types:	Likely Supported w/ Updated Interface Types:	Unsupported Interface Types:
SMTP	Exchange 2003 MAPI	CDO
Outlook Add-Ons	Exchange 2007 MAPI	WebDAV
Microsoft Exchange Web Services Managed API 1.1		POP3
Exchange 2010 Web Services		

The following technologies were removed from Exchange 2007:

- Exchange providers for Windows Management Instrumentation (WMI)
- Collaboration Data Objects for Exchange Management (CDOEXM)
- Collaboration Data Objects for Exchange Workflow (CDOWF)
- Exchange Web Forms
- At Functions
- DAPI.DLL

The following technologies were removed from Exchange 2010:

- Exchange OLE DB Provider (ExOLEDB)
- Exchange store Event Sinks
- World Wide Web Distributed Authoring and Versioning (WebDAV)
- CDO 3.0 (CDOEx)
- Item-level permissions
- Exchange Store custom item types

Links to Microsoft's guidance for Exchange 2010 development are available online:
http://cts.wa.gov/projects/shared_email/technical_resources.aspx.

COMING SOON: Agency Exchange Decommissioning Activities

	23	COMING SOON: Exchange Decommissioning Activities
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Do not begin any decommissioning activities in agencies' Exchange environments prior to coordinating efforts with CTS.

Cutover & Post Cutover Checklist: Migration Checklist

Cutover: Migration Checklist

<i>Use this checklist to keep track of outstanding tasks that should be completed prior to the move</i>			
	1	Submit Agency Requested Pilot Migration and Agency Migration Schedule to Client Liaison. Group BlackBerry® Users to the Top of the List.	<input type="checkbox"/>
	2	Confirm Users have been Informed that their Mailboxes will be Migrated and that they should Contact the Agency Help Desk with any Issues or Questions. Remember to Communicate to Users the New Web Addresses for Outlook Web App (OWA). This should Include Communicating to End Users the Junk Mail Address: https://junkmail.wa.lcl	<input type="checkbox"/>
	3	Disable Email Address Policies	<input type="checkbox"/>
	4	Set User Properties	<input type="checkbox"/>
	5	Change Address Lists and Address Policies to oPath	<input type="checkbox"/>
	6	Validate Naming Conventions for Directory Objects	<input type="checkbox"/>
	7	Export Mailbox Dumpsters	<input type="checkbox"/>
	8	Move Mailboxes (Validate that RPC/HTTP is Turned On at the Client)	<input type="checkbox"/>
	9	Confirm BlackBerry® Users have been informed to have Devices Powered On, Fully Charged, Within Coverage Area.	<input type="checkbox"/>
	10	CTS Migrate BlackBerry® Devices	<input type="checkbox"/>
	11	Enable Single Item Recovery	<input type="checkbox"/>
	12	Disable Junk Mail Filtering	<input type="checkbox"/>
	13	Agency End User Testing	<input type="checkbox"/>
	14	Validate Your Non-SMTP Agency Applications	<input type="checkbox"/>
	15	Convert Agency FA mailboxes to Room Mailboxes	<input type="checkbox"/>
	16	Setup Calendar Processing and Auto-accept	<input type="checkbox"/>

Post Cutover / Migration Tasks

<i>Use this checklist to keep track of outstanding tasks that should be completed after the move</i>			
	17	Complete and Submit Acceptance Document	<input type="checkbox"/>
	18	SMTP Relay Migration	<input type="checkbox"/>
	19	Change/Create SPF Record	<input type="checkbox"/>

	20	Begin use of CTS Service Desk for Tier 2 Support Requirements.	<input type="checkbox"/>
	21	Creating New Mailboxes using Exchange 2010 Administrative Tools	<input type="checkbox"/>
	22	Coordinate Application Integration Requests with CTS	<input type="checkbox"/>
	23	COMING SOON: Agency Exchange Decommissioning Activities	<input type="checkbox"/>



Appendix 1: Post-Pilot Acceptance Document

Acceptance by Agency and CTS Post-Pilot Email Migration

Planning activities prepare an agency and CTS to support the migration of the agency to the Shared Services Email offering. The purpose of the agency pilot is to test the migration and validate that migration of email boxes and BlackBerry® work as planned and that agency applications are being addressed by the agency and CTS.

This document summarizes the acceptance by both the agency and CTS prior to the full migration waves. It confirms that the pilot was successful in meeting user testing and that agency applications are being addressed by the agency and CTS.

Shared Services Email

PILOT EMAIL BOXES	VALIDATION BY AGENCY (add agreement & date)
Agency administrator has successfully migrated mailboxes to the Shared Services Email offering	
Agency has confirmed email functioning from agency pilot users	

BlackBerry®

PILOT BLACKBERRY MIGRATIONS	VALIDATION BY AGENCY (add agreement & date)
Agency has confirmed BlackBerry migrations complete with confirmation from pilot users	

Agency Applications

AGENCY APPLICATIONS	VALIDATION BY AGENCY (add agreement & date)
The agency is engaged with CTS in planning activities for agency applications. Attachment lists tested applications, and other agency applications currently being discussed with CTS.	



Appendix 2: Post-Pilot Acceptance Applications Listing Sample

Shared Service Email – Post-Pilot Acceptance Attachment: Applications

1. Read the instructions on this page
2. Enter data into the table on this page
3. Email completed acceptance document to: SSEP@cts.wa.gov

The purpose of this document is to provide a list of applications which have been tested by the Agency, or are currently being planned for by the Agency/CTS. This list is an attachment to the Post-Pilot Acceptance Document which must be submitted prior to full migrations to the Shared Services Email Exchange 2010 system.

Please direct any questions regarding the template to:

Jim Hammond for small agencies James.Hammond@ofm.wa.gov (360) 902-3587
 Steve Lovaas for all other agencies Steve.Lovaas@cts.wa.gov (360) 902-3314

Agency Name	Other Interface Method (if applicable)	Application Name	Description (250 Characters)	Status: Tested/Validated In Planning
Interface Method: SMTP Email Relay Email Applications (Other) Outlook AddOn				