Windows 10 IPU Task Sequence

In this post, I will show you how to create a task sequence that you can use for in place upgrade of Win 7/Win 8 to Win 10 v1903. In my lab, I have two workstations running Win 7 and Win 8. I want to perform IPU when no user is logged in. It will be zero touch process (==fully automated==).

First, I created a collection and called it ZeroTouchWin10v1903

Create Device Collection Wizard

Membership Rules

- General
- **Membership Rules**
- Summary
- Progress
- Completion

Define membership rules for this collection

Membership rules determine the resources that are included in the collection when it updates. You can use membership rules to add a specific object or a set of objects from a query. The collection membership can also include or exclude other collections. Membership rules can add only those objects that are members of the limiting collection.

Membership rules:

Rule Name	Type	Collection Id
There are no items to show in this view.		

Add Rule ▼   Edit...   Delete

- **Direct Rule**
- Query Rule
- Device Category Rule
- Include Collections
- Exclude Collections

☐ Use incremental updates for this

An incremental update periodic... adds resources that qualify to this collection. This option do... date for this collection.

☑ Schedule a full update on this collection
Occurs every 7 days effective 14-Oct-2019 7:59 AM   Schedule...

< Previous   Next >   Summary   Cancel

Create Direct Membership Rule Wizard

Welcome

- **Welcome**
- **Search for Resources**
- Select Resources
- Summary
- Progress
- Completion

Welcome to the Create Direct Membership Rule Wizard

This wizard helps you create direct membership rules for your collection. In contrast to query-based membership rules, which add all resources matching a set of criteria, direct membership rules add specific resources to the collection.

To create direct membership rules, you locate and select the resources you want to add as direct members of the collection.

To create new direct membership rules, click Next.

< Previous   Next >   Summary   Cancel

Create Direct Membership Rule Wizard

Search for Resources

- Welcome
- **Search for Resources**
- Select Resources
- Summary
- Progress
- Completion

Locate resources to add to the collection

To create direct membership rules, locate and select the resources that you want to add as direct members of the collection.

Find all resources that match the following criteria:

Resource class: System Resource

Attribute name: Name

Type: String

☐ Exclude resources marked as obsolete

☐ Exclude resources that do not have the Configuration Manager client installed

Value: %

When the type is a string, you can use the percent character (%) as a wildcard for part or all of the value.

[< Previous] [Next >] [Summary] [Cancel]

Create Direct Membership Rule Wizard

Select Resources

- Welcome
- Search for Resources
- **Select Resources**
- Summary
- Progress
- Completion

Select resources to add as direct members to the collection

Resources:

☐ 192.168.0.1
☐ CB
☐ DC
☐ EX2019
☐ OFFICESERVER
☐ OM
☐ SFB
☐ TESTV1809
☐ TP1
☐ WIN10
☑ WIN7
☑ WIN8

[Select All]
[Clear All]

[< Previous] [Next >] [Summary] [Cancel]

Create Direct Membership Rule Wizard

Summary

- Welcome
- Search for Resources
- Select Resources
- **Summary**
- Progress
- Completion

Confirm the settings

Details:

```
Resources:
  • WIN7
  • WIN8
```

To change these settings, click Previous. To apply the settings, click Next.

[< Previous] [Next >] [Summary] [Cancel]

Create Direct Membership Rule Wizard

Completion

- Welcome
- Search for Resources
- Select Resources
- Summary
- Progress
- **Completion**

The Create Direct Membership Rule Wizard completed successfully

Details:

```
✓ Success: Resources:
    • WIN7
    • WIN8
```

To exit the wizard, click Close.

[< Previous] [Next >] [Summary] [Close]

ZeroTouchWin10v1903 Properties

Collection Variables | Distribution Point Groups | AAD Group Sync | Security | Alerts
General | Membership Rules | Power Management | Deployments | Maintenance Windows

Membership rules determine the resources that are included in the collection when it updates. You can use membership rules to add a specific object or a set of objects from a query. The collection membership can also include or exclude other collections. Membership rules can add only those objects that are members of the limiting collection.

Membership rules:

Rule Name	Type	Collection Id
WIN7	Direct	Not Applicable
WIN8	Direct	Not Applicable

[Add Rule ▼] [Edit...] [Delete]

☑ Use incremental updates for this collection

An incremental update periodically evaluates new resources and then adds resources that qualify to this collection. This option does not require you to schedule a full update for this collection.

☑ Schedule a full update on this collection

Occurs every 7 days effective 14-Oct-2019 7:59 AM   [Schedule...]

[OK] [Cancel] [Apply]

Create Device Collection Wizard

Summary

General
Membership Rules
Summary
Progress
Completion

Confirm the settings

Details:

General
- Collection Name: ZeroTouchWin10v1903
- Comment: Upgrade Win 7 to Win 10 using zero touch user interaction

Membership Rules
- (Direct) WIN7

To change these settings, click Previous. To apply the settings, click Next.

[< Previous] [Next >] [Summary] [Cancel]
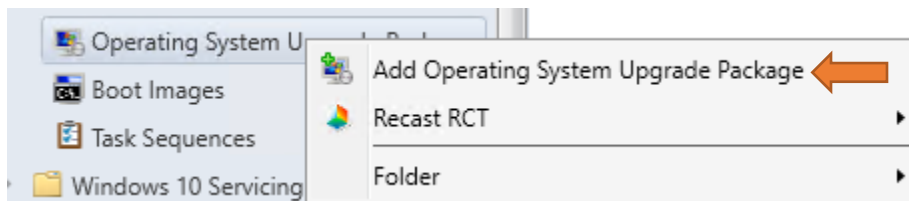
Right click ZeroTouchWin10v1903 and click properties – Click Collection Variables
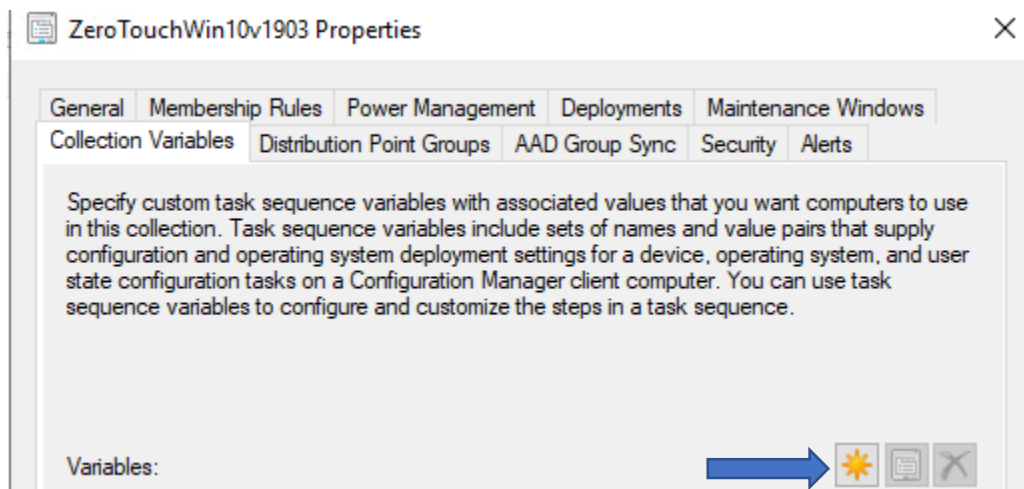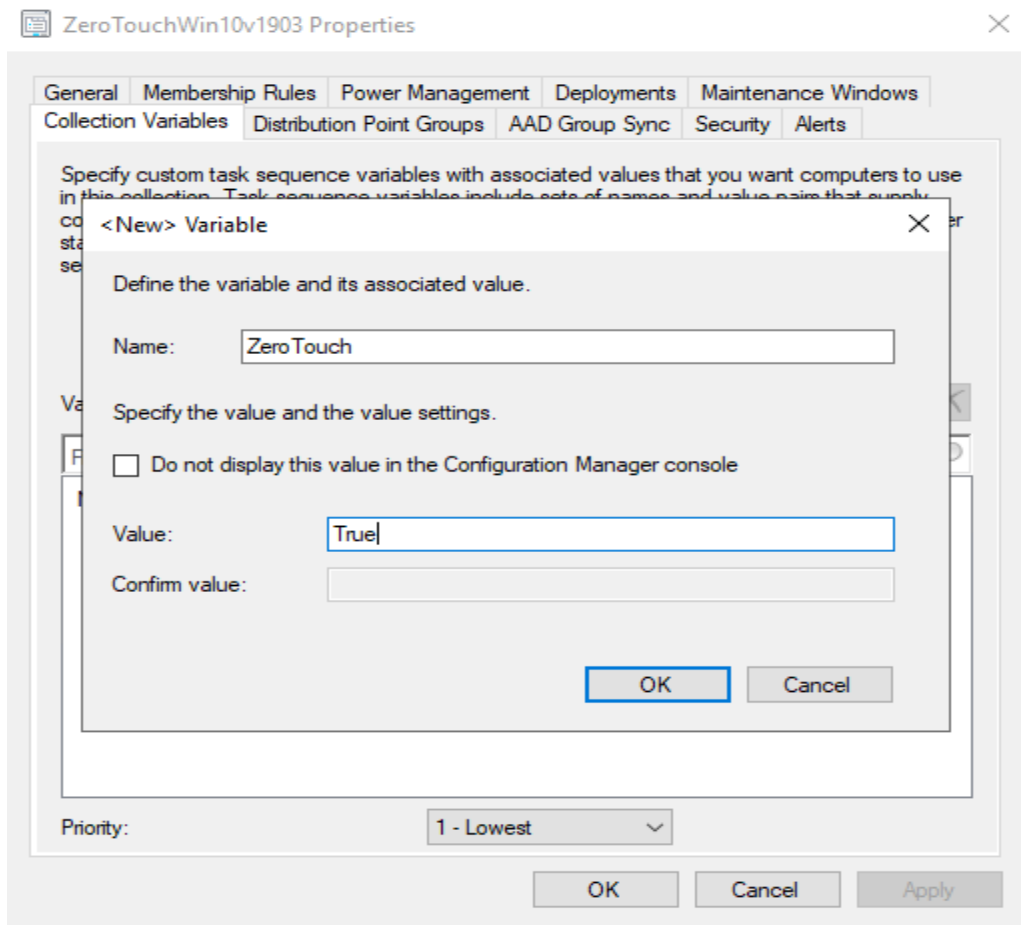
Now we can create Operating System Upgrade Package for IPU. Mount Win 10 ISO and copy the files and folders to a network share on CB1906 server.

Operating System U...
Boot Images
Task Sequences
Windows 10 Servicing

Add Operating System Upgrade Package ⬅
Recast RCT ▶
Folder ▶
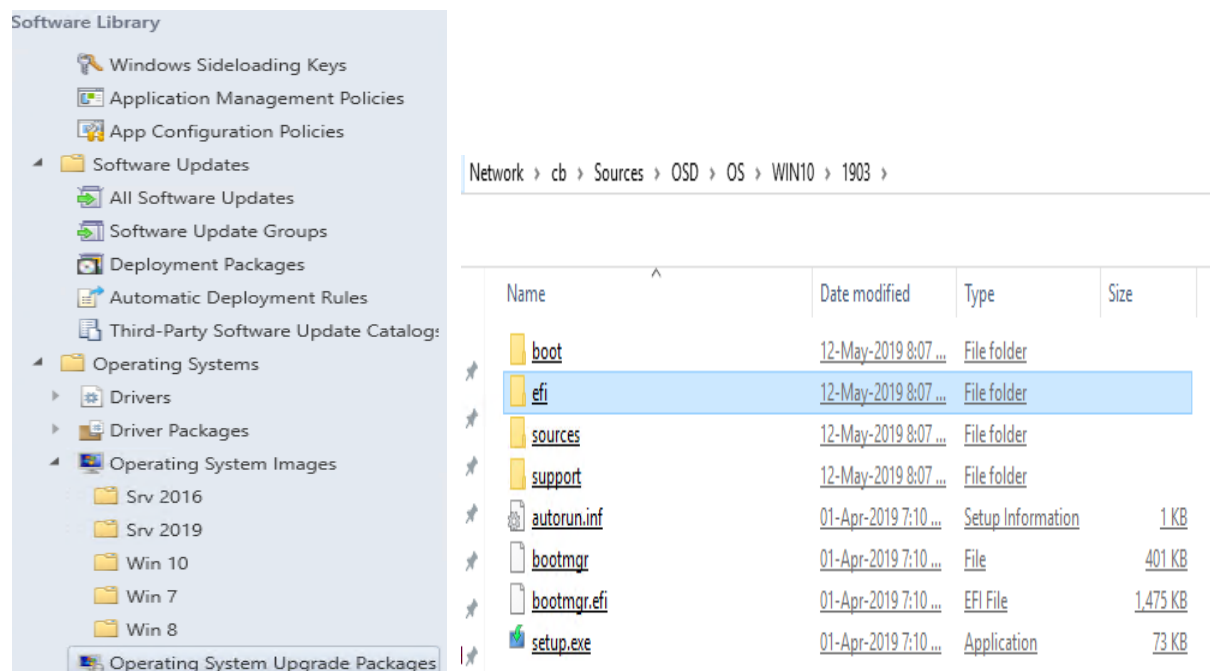
Add Operating System Upgrade Package Wizard ✕

Data Source

- Data Source
- General
- Summary
- Progress
- Completion

Browse to the data source for the operating system upgrade package

Specify the path to the folder that contains the operating system upgrade package.

Path:

\\cb\Sources\OSD\OS\WIN10\1903   [Browse...]

Example: \\servername\sharename\path

If the selected architecture and language matches that of the client, the package content will be downloaded in advance.

Architecture: ○ x86   ● x64

Language: English (United States) ▾

[< Previous] [Next >] [Summary] [Cancel]

Add Operating System Upgrade Package Wizard

General

Data Source	**Type general information for the operating system upgrade package**
General	
Summary	
Progress	Provide a name, version, and comment for the operating system upgrade package.
Completion	

Name: Win 7 to Win 10 IPU

Version: v1903 x64

Comment: Zero Touch IPU

[< Previous] [Next >] [Summary] [Cancel]

Add Operating System Upgrade Package Wizard

Summary

Data Source	**To create the Operating System Upgrade Package, click Next**
General	
Summary	
Progress	Details:
Completion	

Data Source Information
- Source location: \\cb\Sources\OSD\OS\WIN10\1903

Package Information
- Name: Win 7 to Win 10 IPU
- Version: v1903 x64
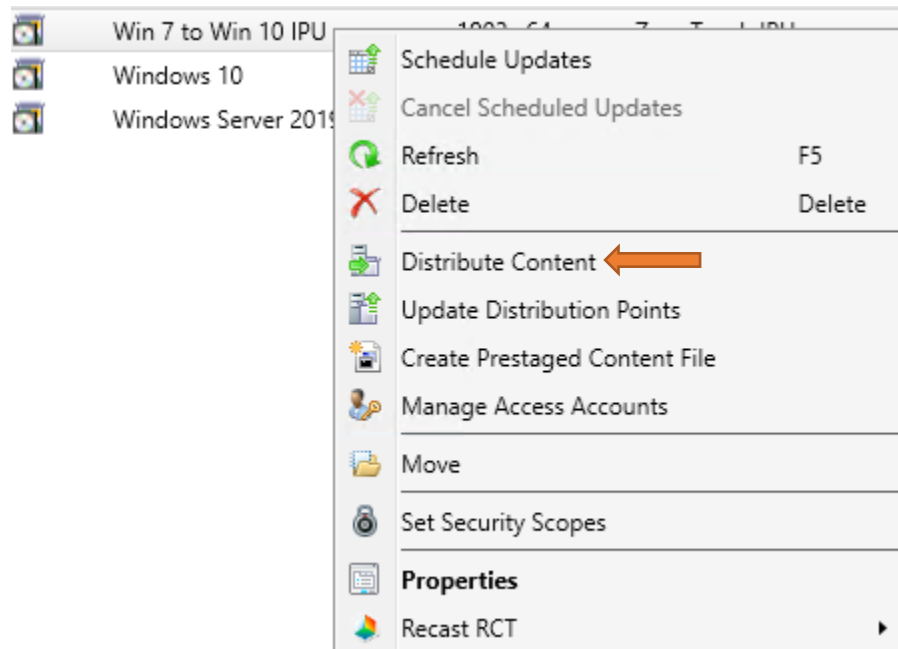- Comment: Zero Touch IPU

To change these settings, click Previous. To apply the settings, click Next.

[< Previous] [Next >] [Summary] [Cancel]

Next distribute the content to DP's

Distribute Content Wizard

General

- General
  - Content Destination
- Summary
- Progress
- Completion

Review selected content

You have selected the following content for distribution.

Content:

```
Win 7 to Win 10 IPU
```

Some content might have associated dependencies that must be installed before the content can be installed.

☐ Detect associated content dependencies and add them to this distribution

[< Previous] [Next >] [Summary] [Cancel]

Distribute Content Wizard

Content Destination

- General
  - Content Destination
- Summary
- Progress
- Completion

Specify the content destination

Content will be distributed to the following distribution points, distribution point groups, and the distribution point groups that are currently associated with collections.

Content destination:

Filter...

Name	Description	Associations
CB.RAMLAN.CA	Distribution point	
Toronto	Distribution point group	0

[Add ▼]
[Remove]

[< Previous] [Next >] [Summary] [Cancel]

Distribute Content Wizard ✕

Summary

General
  Content Destination
Summary
Progress
Completion

Confirm the settings

Details:

Content (1):
  • Win 7 to Win 10 IPU
Collections (0):
Distribution point groups (1):
  • Toronto
Distribution points (1):
 • CB.RAMLAN.CA

To change these settings, click Previous. To apply the settings, click Next.

[< Previous] [Next >] [Summary] [Cancel]

Distribute Content Wizard ✕

Completion

General
  Content Destination
Summary
Progress
Completion

✅ **The Distribute Content Wizard completed successfully**

Details:

Content (1):
  • Win 7 to Win 10 IPU
Collections (0):
Distribution point groups (1):
  • Toronto
Distribution points (1):
  • CB.RAMLAN.CA

To exit the wizard, click Close.

[< Previous] [Next >] [Summary] [Close]

← → ▼ | 🖥 \ ▶ Software Library ▶ Overview ▶ Operating Systems ▶ Operating System Upgrade Packages

Software Library ◄ | Operating System Upgrade Packages 3 items

Search

Icon	Name	Version	Comment
	Win 7 to Win 10 IPU	v1903 x64	Zero Touch IPU

🔑 Windows Sideloading Keys
🖼 Application Management Policies
📋 App Configuration Policies

Now we will create task sequence for Win 10 IPU

Create Task Sequence Wizard
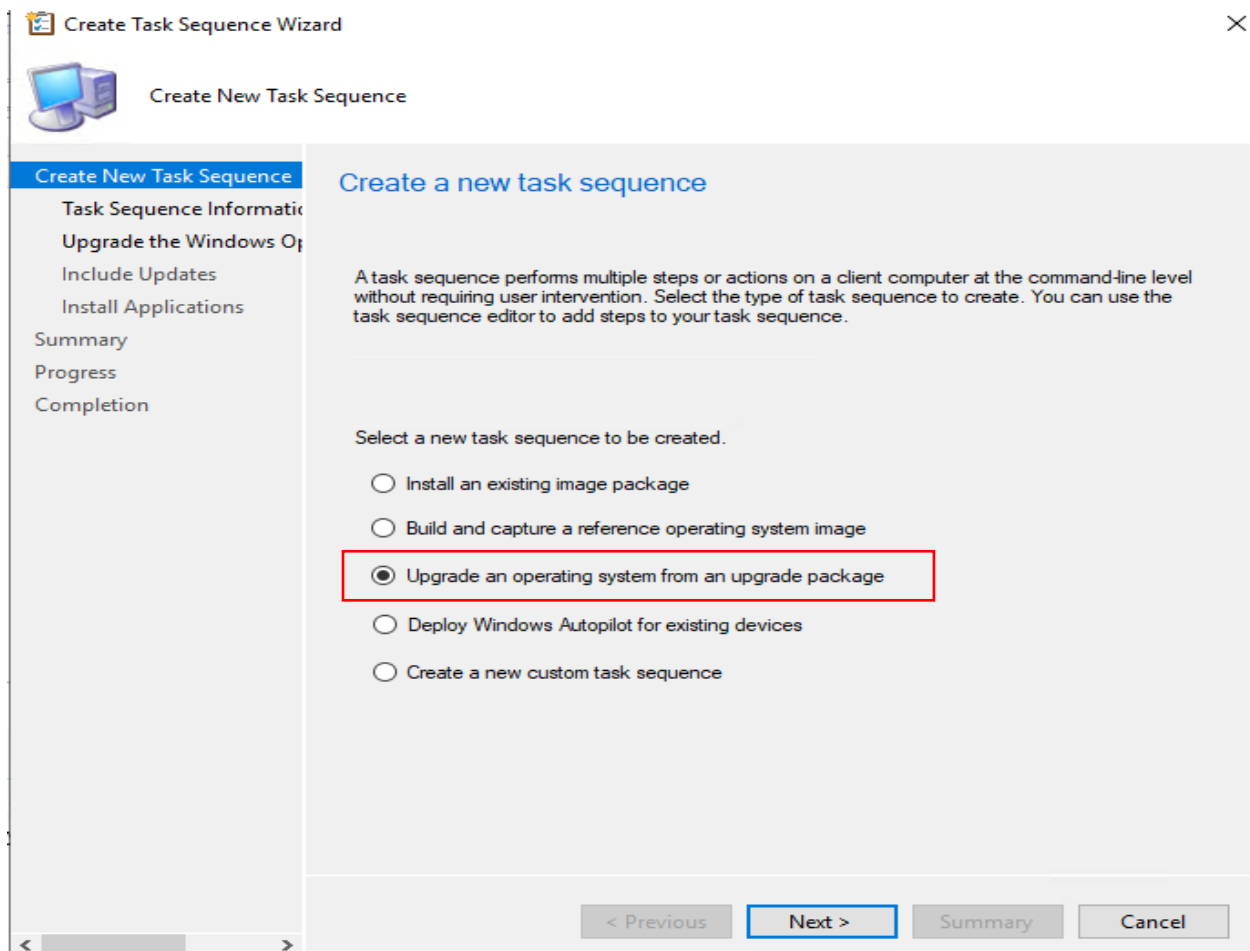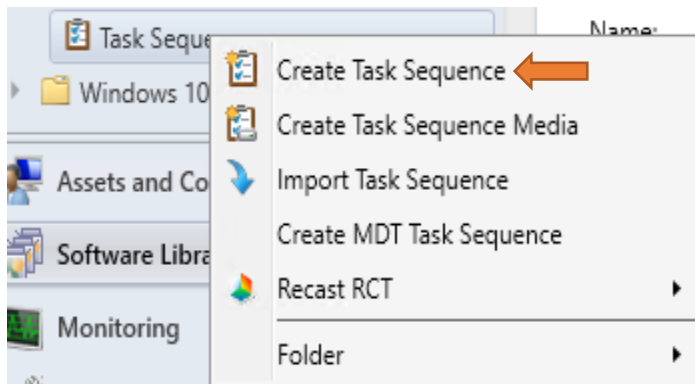
Task Sequence Information

Create New Task Sequence
- **Task Sequence Informati**
- **Upgrade the Windows Op**
- Include Updates
- Install Applications
- Summary
- Progress
- Completion

Specify task sequence information

Task sequence name: Win 7 to Win 10 IPU

Description: In place upgrade of Win 7 to Win 10

[< Previous] [Next >] [Summary] [Cancel]

Create Task Sequence Wizard

Upgrade the Windows Operating System

Create New Task Sequence
- Task Sequence Informati
- **Upgrade the Windows O**
- Include Updates
- Install Applications
- Summary
- Progress
- Completion

Select an operating system upgrade package

Upgrade package: Win 7 to Win 10 IPU v1903 x64 en-US   [Browse...]

Properties:

	OS version	Edition	Language	Architectur
1	10.0.18362.30	Windows 10 Education	en-US	X64
2	10.0.18362.30	Windows 10 Education N	en-US	X64
3	10.0.18362.30	Windows 10 Enterprise	en-US	X64
4	10.0.18362.30	Windows 10 Enterprise N	en-US	X64

Specify the edition index and licensing information for this upgrade package, if required.

Edition index : 3 - Windows 10 Enterprise

Product key:

[< Previous] [Next >] [Summary] [Cancel]

Create Task Sequence Wizard

Include Updates

Create New Task Sequence
- Task Sequence Information
- Upgrade the Windows Op
- **Include Updates**
- Install Applications
- Summary
- Progress
- Completion

Include software updates

Install software updates based on the type of software update deployment:

- ○ Required for installation - Mandatory software updates only
- ● Available for installation - All software updates
- ○ Do not install any software updates

[< Previous] [Next >] [Summary] [Cancel]

Create Task Sequence Wizard

Install Applications

Create New Task Sequence
- Task Sequence Information
- Upgrade the Windows Op
- Include Updates
- **Install Applications**
- Summary
- Progress
- Completion

Install applications

Select the applications to be run with this operating system image.

Applications:

Application name	Description
7-Zip 19.00 (MSI-x64)	Created by Patch My PC Versio...
Adobe Acrobat Reader DC 19.012.20036	Created by Patch My PC Versio...
Google Chrome 77.0.3865.120 (x64)	Created by Patch My PC Versio...
Mozilla Firefox 69.0.3 (x64)	Created by Patch My PC Versio...
VLC Media Player 3.0.8 (x64)	Created by Patch My PC Versio...
WinZip 20.5 (x64)	Created by Patch My PC Versio...

☑ If an application installation fails, continue installing other applications in the list

[< Previous] [Next >] [Summary] [Cancel]

Create Task Sequence Wizard

Summary

Create New Task Sequence
- Task Sequence Informatic
- Upgrade the Windows Op
- Include Updates
- Install Applications

Summary
Progress
Completion

Confirm the settings

Details:

Verify the following task sequence details.

Create a new task sequence
- Name: Win 7 to Win 10 IPU
- Comment: In place upgrade of Win 7 to Win 10

Upgrade the Windows operating system
- Installation source media: Win 7 to Win 10 IPU v1903 x64 en-US
- Edition index: 3

Include software updates
- Install software updates: All software updates

Install applications
- Install application: 7-Zip 19.00 (MSI-x64)
- Install application: Adobe Acrobat Reader DC 19.012.20036
- Install application: Google Chrome 77.0.3865.120 (x64)
- Install application: Mozilla Firefox 69.0.3 (x64)
- Install application: VLC Media Player 3.0.8 (x64)
- Install application: WinZip 20.5 (x64)
- If an application installation fails, continue installing other applications in the list: Yes

To change these settings, click Previous. To apply the settings, click Next.

[< Previous] [Next >] [Summary] [Cancel]

Create Task Sequence Wizard

Completion

Create New Task Sequence
- Task Sequence Informatic
- Upgrade the Windows Op
- Include Updates
- Install Applications

Summary
Progress
Completion

✅ The Create Task Sequence Wizard completed successfully

Details:

✅ Success: Create a new task sequence
- Name: Win 7 to Win 10 IPU
- Comment: In place upgrade of Win 7 to Win 10

✅ Success: Upgrade the Windows operating system
- Installation source media: Win 7 to Win 10 IPU v1903 x64 en-US
- Edition index: 3

✅ Success: Include software updates
- Install software updates: All software updates

✅ Success: Install applications
- Install application: 7-Zip 19.00 (MSI-x64)
- Install application: Adobe Acrobat Reader DC 19.012.20036
- Install application: Google Chrome 77.0.3865.120 (x64)
- Install application: Mozilla Firefox 69.0.3 (x64)
- Install application: VLC Media Player 3.0.8 (x64)
- Install application: WinZip 20.5 (x64)
- If an application installation fails, continue installing other applications in the list: Yes

To exit the wizard, click Close.

[< Previous] [Next >] [Summary] [Close]

\ ▸ Software Library ▸ Overview ▸ Operating Systems ▸ Task Sequences

Software Library

- Windows Sideloading Keys
- Application Management Policies
- App Configuration Policies
- Software Updates
  - All Software Updates

Task Sequences 4 items

Search

Icon	Name	Description	Package ID	Date Created
	MDT BOOT 8456	This dummy task sequence is to createMDT BOOT pakage for future use	TOR00023	13-Feb-2019 2:41 PM
	Win 10 v1809	This will install Windows 10 v1809 x64 to VM	TOR00035	27-May-2019 9:51 AM
	Win 7 to Win 10 IPU	In place upgrade of Win 7 to Win 10	TOR0017E	14-Oct-2019 3:23 PM

I edited the task sequence and added these 2 steps. This is to avoid deploying Win 10 IPU, if user is working/logged on to the system.

Win 7 to Win 10 IPU Task Sequence Editor

Add ▾ | Remove | ⊗ ⊗ 仁 ❒

- 🗁 **Win 10 IPU**
  - ✓ Set a Logged On User ⬅
  - ✓ ZeroTouch – User Logged On
  - ✓ Check Readiness for Upgrade
  - 🗏 **Battery Checks**
  - 🗏 **Network/Wired Connection Checks**
  - 🗏 **Remove incompatible applications**
  - 🗏 **Remove incompatible drivers**
  - 🗏 **Remove/suspend third-party security**
  - 🗁 **Upgrade the Operating System**
    - ✓ Upgrade Operating System
    - ✓ Restart Computer
  - 🗁 **Post-Processing**

Properties | Options

Type:	Set Task Sequence Variable
Name:	Set a Logged On User
Description:	To check any user logged on and working

Enter the task sequence variable name and value.

Task Sequence Variable: LOGGEDONUser

☐ Do not display this value

Value: TRUE

Win 7 to Win 10 IPU Task Sequence Editor

Add ▾ | Remove | ⊗ ⊗ 仁 ❒

- 🗁 **Win 10 IPU**
  - ✓ Set a Logged On User
  - ✓ ZeroTouch – User Logged On
  - ✓ Check Readiness for Upgrade
  - 🗏 **Battery Checks**
  - 🗏 **Network/Wired Connection Checks**
  - 🗏 **Remove incompatible applications**
  - 🗏 **Remove incompatible drivers**
  - 🗏 **Remove/suspend third-party security**

Properties | **Options**

☐ Disable this step

☐ Continue on error

❓ Add Condition ▾ | ✕ Remove | ✕ Remove All

This group/step will run if the following conditions are met:
 WMI Query select   relpath from win32_process where caption = 'explorer.exe'

Win 7 to Win 10 IPU Task Sequence Editor

Add ▾ | Remove | ⊗ ⊗ 仁 ❒

- 🗁 **Win 10 IPU**
  - ✓ Set a Logged On User
  - ✓ ZeroTouch – User Logged On ⬅
  - ✓ Check Readiness for Upgrade
  - 🗏 **Battery Checks**
  - 🗏 **Network/Wired Connection Checks**
  - 🗏 **Remove incompatible applications**
  - 🗏 **Remove incompatible drivers**
  - 🗏 **Remove/suspend third-party security**
  - 🗁 **Upgrade the Operating System**
    - ✓ Upgrade Operating System
    - ✓ Restart Computer
  - 🗁 **Post-Processing**
    - 🗏 Apply setup-based drivers

Properties | Options

Type:	Set Task Sequence Variable
Name:	ZeroTouch – User Logged On
Description:	To check if user is logged on during the upgrade

Enter the task sequence variable name and value.

Task Sequence Variable: LOGGEDONUser

☐ Do not display this value

Value: TRUE

Win 7 to Win 10 IPU Task Sequence Editor   — ☐ ✕

Add ▾ | Remove | ⊗ ⊗ 仁 ❒

- 🗁 **Win 10 IPU**
  - ✓ Set a Logged On User
  - ✓ ZeroTouch – User Logged On
  - ✓ Check Readiness for Upgrade
  - 🗏 **Battery Checks**
  - 🗏 **Network/Wired Connection**
  - 🗏 **Remove incompatible applic**
  - 🗏 **Remove incompatible driver**
  - 🗏 **Remove/suspend third-party**
  - 🗁 **Upgrade the Operating System**
    - ✓ Upgrade Operating System

Properties | **Options**

☐ Disable this step

☐ Continue on error

❓ Add Condition ▾ | ✕ Remove | ✕ Remove All

This group/step will run if the following conditions are met:
 Task Sequence Variable ZeroTouch equals "True"
 Task Sequence Variable LOGGEDONUser equals "True"

The final task sequence should look like this

Win 7 to Win 10 IPU Task Sequence Editor

Add ▾ | Remove | ⓐ ⓨ ⚼ 🗐

- 🗁 **0. Win 10 IPU**
  - ✅ 1. Set a Logged On User
  - ✅ 2. ZeroTouch – User Logged On
  - ✅ 3. Check Readiness for Upgrade
  - 🗁 **8. Remove incompatible applications**
  - 🗁 **10. Remove incompatible drivers**
  - 🗁 **12. Remove/suspend third-party security**
- 🗁 **15. Upgrade the Operating System**
  - ✅ 16. Upgrade Operating System
  - ✅ 17. Restart Computer
- 🗁 **19. Post-Processing**
  - 🗁 **20. Apply setup-based drivers**
  - 🗁 **22. Install/enable third-party security**
  - ✅ 24. Install Updates
  - ✅ 25. Install Applications
  - 🗁 **27. Set Windows default apps and associations**
  - 🗁 **29. Apply customizations and personalizations**
- 🗁 **32. Rollback**
- 🗁 **34. Run Actions on Failure**
  - 🗁 **35. Collect Logs**
  - 🗁 **37. Run Diagnostic Tools**

Now it is time to deploy the task sequence.
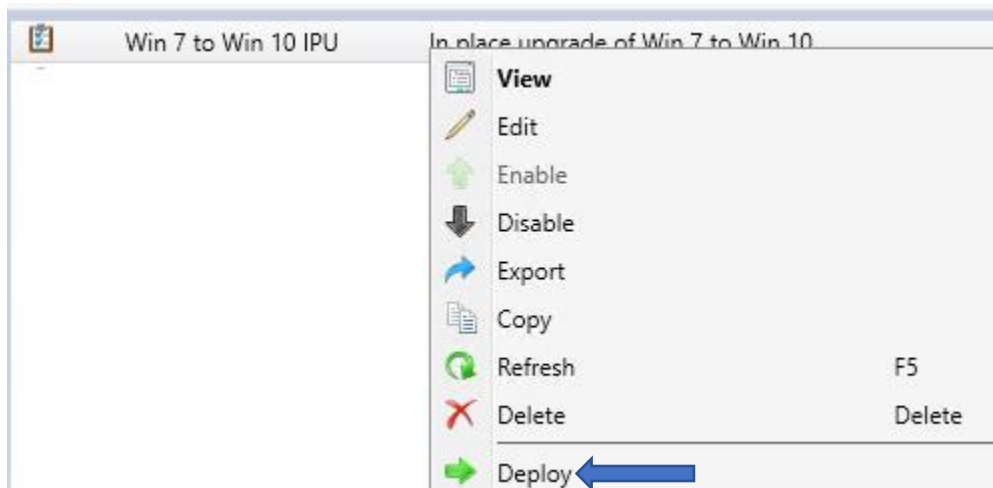
	Win 7 to Win 10 IPU	In place upgrade of Win 7 to Win 10

- 🗐 View
- ✏ Edit
- ⬆ Enable
- ⬇ Disable
- ➡ Export
- 🗎 Copy
- 🔄 Refresh   F5
- ❌ Delete   Delete
- ➡ Deploy ⟵

Deploy Software Wizard

General

Specify general information for this deployment

Task sequence: [Win 7 to Win 10 IPU] [Browse...]

Collection: [ZeroTouchWin10v1903] [Browse...]

☐ Use default distribution point groups associated to this collection

☐ Automatically distribute content for dependencies

☐ Pre-download content for this task sequence

Select a previously saved deployment template that defines configuration settings for this deployment. Before you complete this wizard, you have the option to save the current configurations as a new deployment template.

[Select Deployment Template...]

Comments (optional):

[< Previous] [Next >] [Summary] [Cancel]

Deploy Software Wizard

Deployment Settings

Specify settings to control how this software is deployed

Action: [Install]

Purpose: [Required]

Specify whether to make this task sequence available to Configuration Manager clients, and whether it is available to run when you deploy an operating system by using boot media, prestaged media, or PXE.

Make available to the following:

[Only Configuration Manager Clients]

☐ Pre-deploy software to the user's primary device

☑ Send wake-up packets

☐ Allow clients on a metered Internet connection to download content after the installation deadline, which might incur additional costs

[< Previous] [Next >] [Summary] [Cancel]

Deploy Software Wizard ✕

💻 Scheduling

General
Deployment Settings
  Scheduling
  User Experience
  Alerts
  Distribution Points
Summary
Progress
Completion

Specify the schedule for this deployment

This program will be available as soon as it has been distributed to the content servers unless it is scheduled for a later time below. For required applications, specify the assignment schedule.

☑ Schedule when this deployment will become available:

21-Oct-2019 ▦▾   8:12 PM ⬍   ☐ UTC

☑ Schedule when this deployment will expire:

01-Nov-2019 ▦▾   2:12 AM ⬍   ☐ UTC

Assignment schedule: [New...] [Edit...] [Delete]

Occurs every 12 hours effective 28-Oct-2019 11:19 PM

Here you can see task seq is scheduled to run every 12 hours, if failed previous attempt – reason I don't want to run the upgrade, if users are logged on, so the task seq will fail & try next cycle

Rerun behavior: Rerun if failed previous attempt ▾

[< Previous] [Next >] [Summary] [Cancel]

Deploy Software Wizard ✕

💻 User Experience

General
Deployment Settings
  Scheduling
  User Experience
  Alerts
  Distribution Points
Summary
Progress
Completion

Specify the user experience for the installation of this software on the selected devices

Notification settings:

☐ Allow users to run the program independently of assignments

☐ Show Task Sequence progress

When the scheduled assignment time is reached, allow the following activities to be performed outside the maintenance window:

☐ Software installation

☐ System restart (if required to complete the installation)

Write filter handling for Windows Embedded devices

☑ Commit changes at deadline or during a maintenance window (requires restarts)

If this option is not selected, content will be applied on the overlay and committed later.

Internet based clients:

☐ Allow task sequence to run for client on the Internet

[< Previous] [Next >] [Summary] [Cancel]

Deploy Software Wizard ✕

Alerts

General
Deployment Settings
 Scheduling
 User Experience
 Alerts
 Distribution Points
Summary
Progress
Completion

Specify Configuration Manager and Operations Manager alert options

Configuration Manager generates alerts when this task sequence is deployed.

Threshold for successful deployment

☐ Create a deployment alert when the threshold is lower than the following:

Percent success: `90` ⏶⏷

After: `21-Oct -2019` ⌄ `8:12 PM` ⏶⏷

Threshold for failed deployment

☐ Create a deployment alert when the threshold is higher than the following:

Percent failure: `10` ⏶⏷

[< Previous] [Next >] [Summary] [Cancel]

Deploy Software Wizard ✕

Distribution Points

General
Deployment Settings
 Scheduling
 User Experience
 Alerts
 Distribution Points
Summary
Progress
Completion

Specify how to run the content for this program

Specify how clients interact with the distribution points to retrieve content from packages referred by the task sequence:

Deployment options:

`Download content locally when needed by the running task sequence` ⌄

Clients will always try to get content from distribution points in current boundary group. In addition, interaction with distribution points in neighbor boundary group can be controlled:

☑ Allow clients to use distribution points from the neighbor boundary group

When this content is not available on any distribution points in current and neighbor boundary groups, you can allow the client to use a distribution point in site default boundary group.

☐ Allow clients to use distribution points from the default site boundary group

⚠ Token based authentication (recommended) or a network access account must be configured to access content from Windows PE

[< Previous] [Next >] [Summary] [Cancel]

Deploy Software Wizard ✕

🖥 Summary

General
Deployment Settings
   Scheduling
   User Experience
   Alerts
   Distribution Points
Summary
Progress
Completion

Confirm the settings for this new deployment

Details: **Save As Template...**

General
- Software: Win 7 to Win 10 IPU
- Collection: ZeroTouchWin10v1903 (Member Count: 1)
- Use default distribution point groups associated to this collection: Disabled
- Automatically distribute content for dependencies: Disabled
- Pre-download content for this task sequence: Disabled

Deployment Settings
- Action: Install
- Purpose: Required
- Task sequence deployment option: Only Configuration Manager Clients
- Pre-deploy software to the user's primary device: Disabled
- Send wake-up packets: Enabled
- Allow clients to use a metered Internet connection to download content: Disabled

Scheduling
- Schedule when this deployment will become available: 21-Oct-2019 8:12 PM
- Schedule when this deployment will expire: 01-Nov-2019 2:12 AM
- Assignment schedule: 28-Oct-2019 11:19 PM;
- Rerun behavior: Rerun if failed previous attempt

User Experience
- Allow users to run the program independently of assignments: Disabled
- Software installation: Disabled
- System restart (if required to complete the installation): Disabled
- Allow task sequence to run for client on the Internet: Disabled

To change these settings, click Previous. To apply the settings, click Next.

                             < Previous   Next >   Summary   Cancel

---

Deploy Software Wizard ✕

🖥 Completion

General
Deployment Settings
   Scheduling
   User Experience
   Alerts
   Distribution Points
Summary
Progress
Completion

✅ ## The Deploy Software Wizard completed successfully

Details:

✅ Success: General
- Software: Win 7 to Win 10 IPU
- Collection: ZeroTouchWin10v1903 (Member Count: 1)
- Use default distribution point groups associated to this collection: Disabled
- Automatically distribute content for dependencies: Disabled
- Pre-download content for this task sequence: Disabled

✅ Success: Deployment Settings
- Action: Install
- Purpose: Required
- Task sequence deployment option: Only Configuration Manager Clients
- Pre-deploy software to the user's primary device: Disabled
- Send wake-up packets: Enabled
- Allow clients to use a metered Internet connection to download content: Disabled

✅ Success: Scheduling
- Schedule when this deployment will become available: 21-Oct-2019 8:12 PM
- Schedule when this deployment will expire: 01-Nov-2019 2:12 AM
- Assignment schedule: 28-Oct-2019 11:19 PM;
- Rerun behavior: Rerun if failed previous attempt

✅ Success: User Experience

To exit the wizard, click Close.

                             < Previous   Next >   Summary   Close

GPO - Auto Logoff Users:

In order to deploy task sequence when no user is logged on – I am using Autologoff2 product GPO, so users will be logged off after a specified time. This is only for testing purpose within lab environment.

Open GPMC

Select the Container – Create GPO and Link. Please note, if you want to target specific users in an OU then link the GPO to that location.
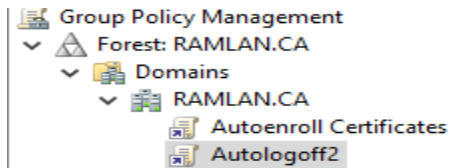
These are the settings, I have configured for Computer and User.
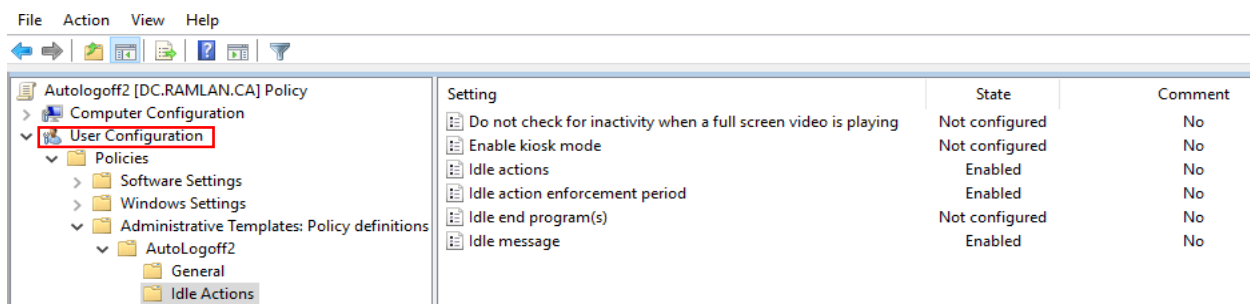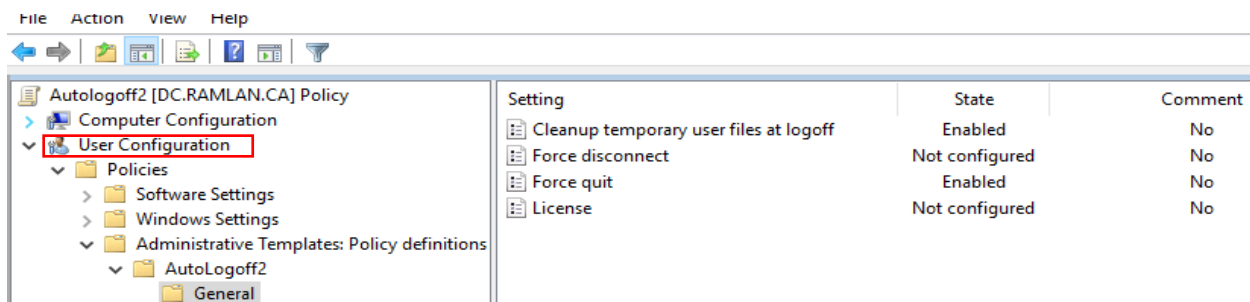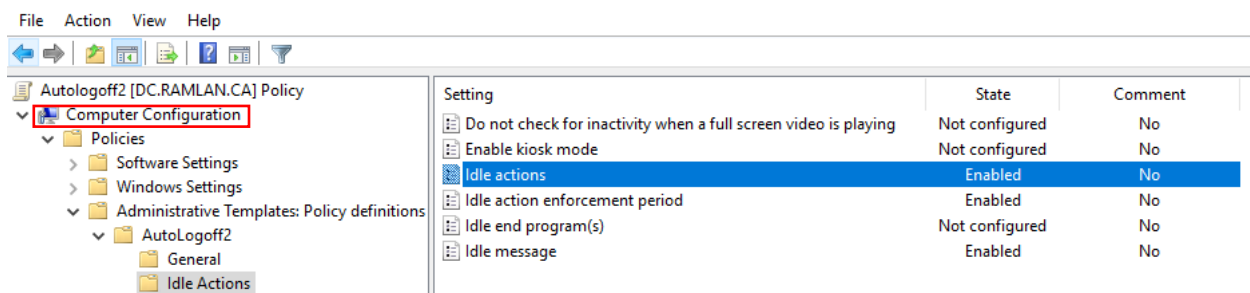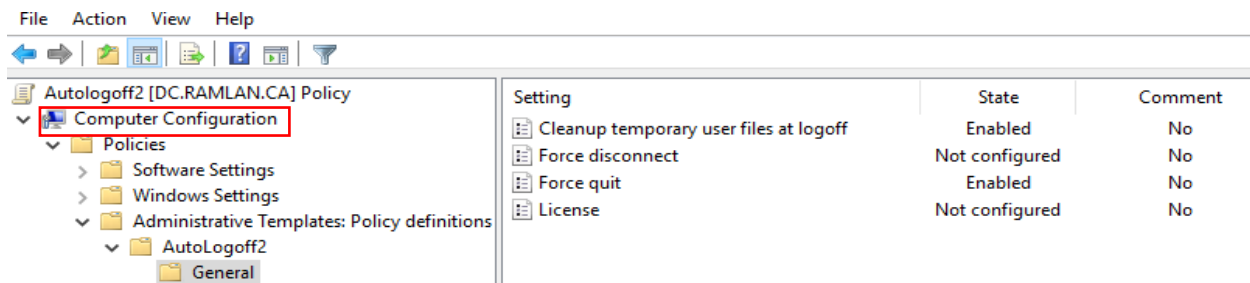
Idle actions

Idle actions

[Previous Setting] [Next Setting]

○ Not Configured   Comment:
⦿ Enabled
○ Disabled   Supported on: Undefined

Options:

Idle Time 1   30
Idle Action 1 Show Message ▼
Idle Time 2   45
Idle Action 2 Lock ▼
Idle Time 3   60
Idle Action 3 Logoff ▼
Idle Time 4   0
Idle Action 4 _Nothing ▼

Help:

Perform the specified action after the user has been idle for the specified number of minutes.

Configuration Example:
Idle Time 1: 20
Idle Action 1: Show Message
Idle Time 2: 22
Idle Action 2: Lock
Idle Time 3: 30
Idle Action 3: Logoff

[OK] [Cancel] [Apply]

Idle action enforcement period

Idle action enforcement period

[Previous Setting] [Next Setting]

○ Not Configured   Comment:
⦿ Enabled
○ Disabled   Supported on: Undefined

Options:

Start Time (hh:mm)
18:00
End Time (hh:mm:)
8:00

Help:

You can optionally specify that Idle Actions should only run in a limited time period only with Start Time and End Time. I.e. 9:00 17:00 or 17:00 9:00 (the next day).

I have set the start time at 6PM to 8AM for Idle action, so IPU can be completed properly with less user downtime.

[OK] [Cancel] [Apply]

Idle message

Idle message

[Previous Setting] [Next Setting]

○ Not Configured   Comment:
⦿ Enabled
○ Disabled   Supported on: Undefined

Options:

Idle Message
|You are being logged out to complete W|

Help:

Define the message shown to the user when action 'Show Message' is specified.

[OK] [Cancel] [Apply]

Now we have all things in place. Time to test our Win 10 IPU. Here on Win 8 machine, I have logged in.

WIN8 on SPRO4 - Virtual Machine Connection

File   Action   Media   View   Help

Ram Lan
RAMLAN\ramlan

Password

Sign-in options

ENG
US

Status: Running

Control Panel ▶ All Control Panel Items ▶ System

File   Edit   View   Tools   Help

Control Panel Home

Device Manager

Remote settings

System protection

Advanced system settings

View basic information about your computer

Windows edition

Windows 8.1 Enterprise

© 2013 Microsoft Corporation. All rights reserved.

System

Processor:	Intel(R) Core(TM) i7-6650U CPU @ 2.20GHz 2.21 GHz
Installed memory (RAM):	2.98 GB
System type:	64-bit Operating System, x64-based processor
Pen and Touch:	No Pen or Touch Input is available for this Display

Computer name, domain, and workgroup settings

Computer name:	WIN8
Full computer name:	WIN8.RAMLAN.CA
Computer description:	Windows 8 Workstation
Domain:	RAMLAN.CA

Windows activation

Windows is activated   Read the Microsoft Software License Terms

Product ID: 00261-30000-00000-AA825

I got logged out. GPO kicked in as per the setting we configured.
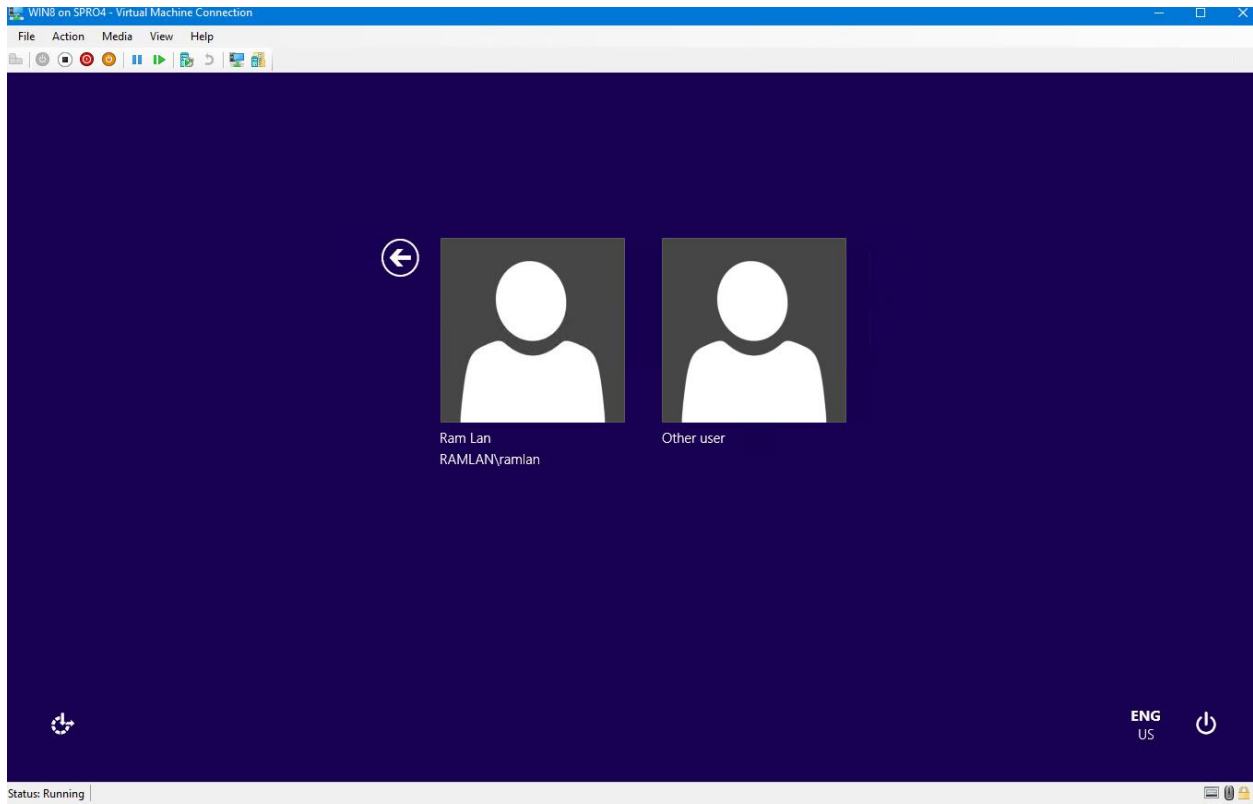
Below is the log that you can monitor during IPU process.
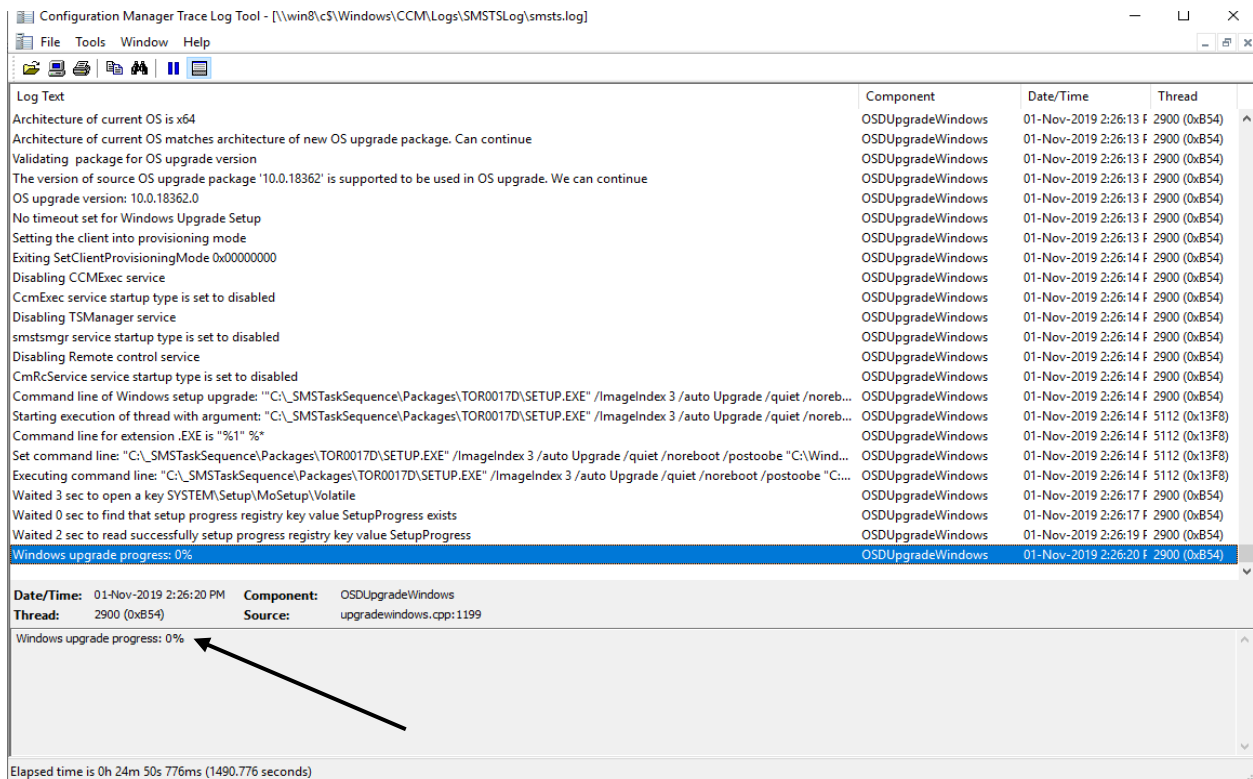
Operating System upgrade has started.
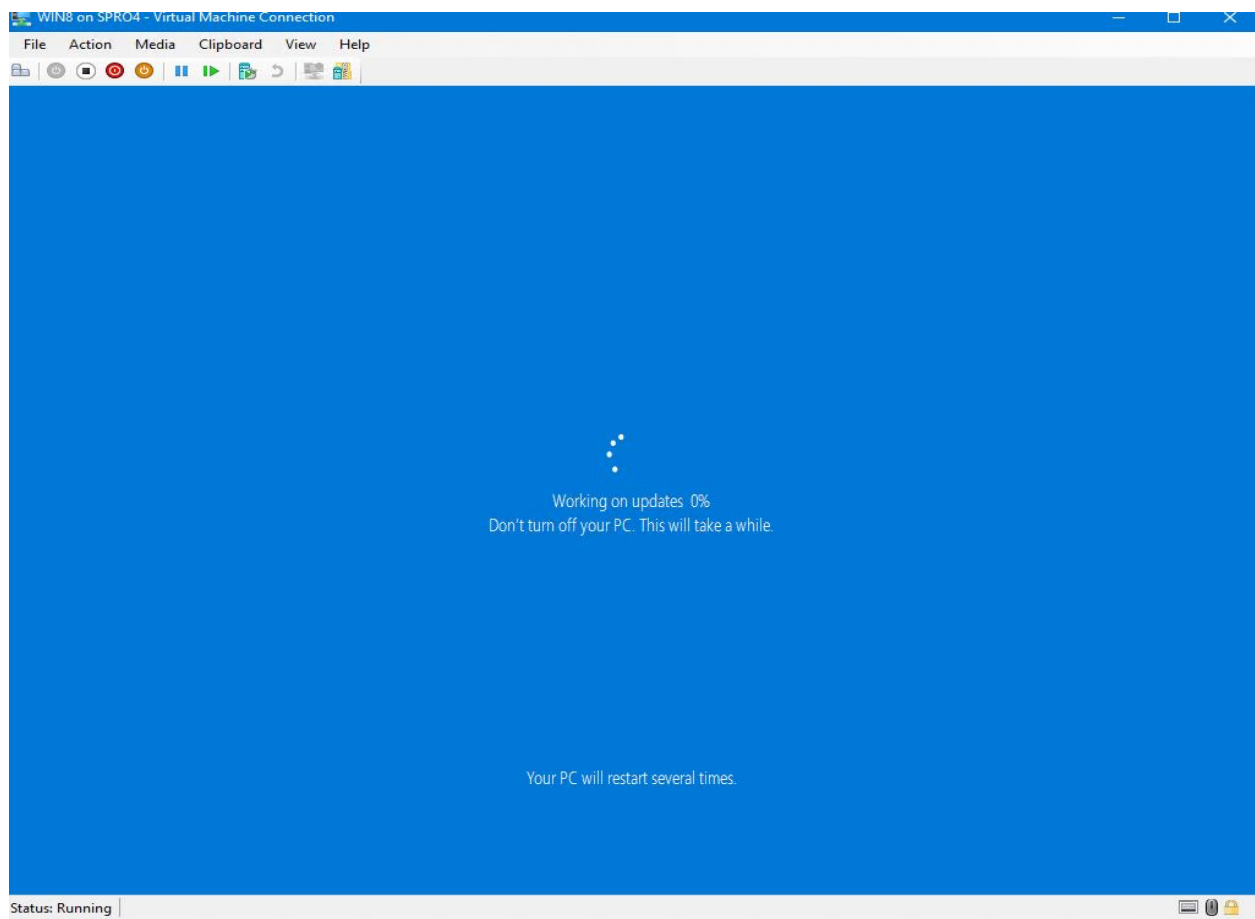
Operating System upgrade completed.
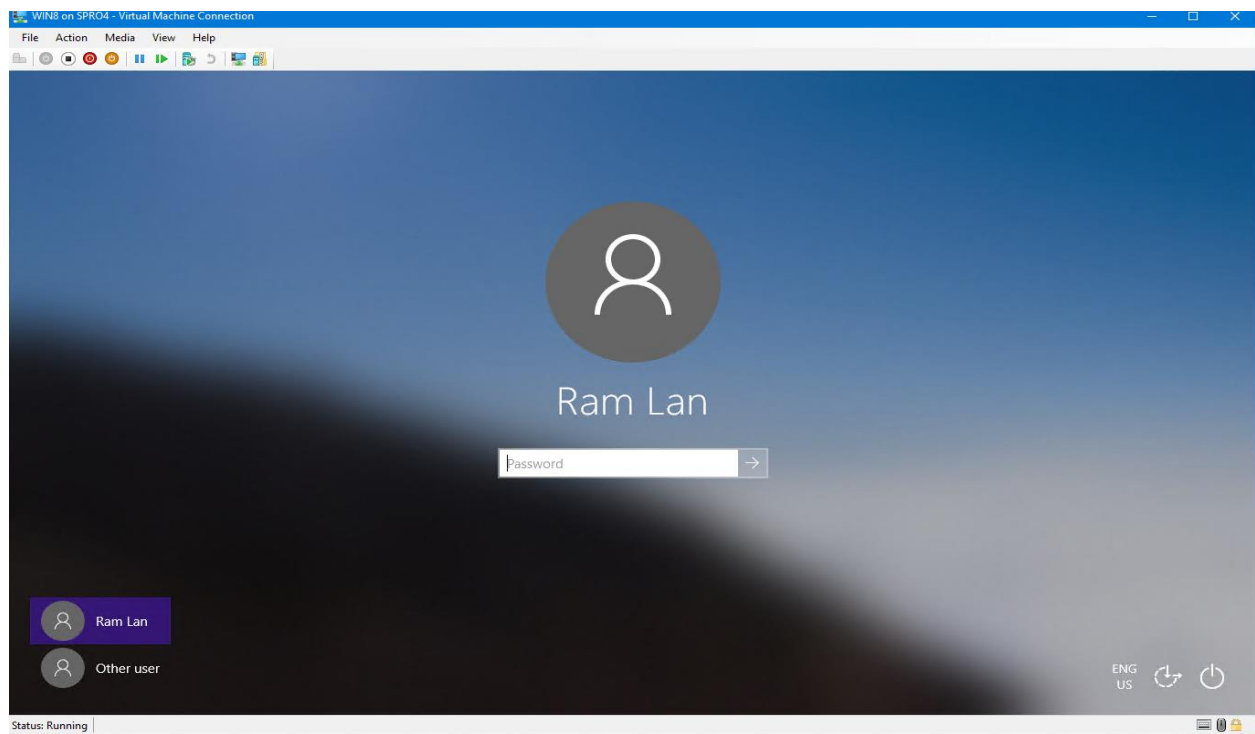
Installing all the updates for Windows 10.

Configuration Manager Trace Log Tool - [\\win8\c$\Windows\CCM\Logs\SMSTSLog\smsts.log]

File   Tools   Window   Help

Log Text	Component	Date/Time	Thread
Set a Task Sequence execution environment variable _SMSTSNextInstructionPointer=20	TSManager	01-Nov-2019 2:51:07 P	3224 (0xC98)
Set a global environment variable _SMSTSInstructionStackString=15	TSManager	01-Nov-2019 2:51:07 P	3224 (0xC98)
Set a Task Sequence execution environment variable _SMSTSInstructionStackString=15	TSManager	01-Nov-2019 2:51:07 P	3224 (0xC98)
Save the current environment block	TSManager	01-Nov-2019 2:51:07 P	3224 (0xC98)
Set a global environment variable _SMSTSLastActionRetryCount=0	TSManager	01-Nov-2019 2:51:07 P	3224 (0xC98)
Has more instructions.	TSManager	01-Nov-2019 2:51:07 P	3224 (0xC98)
Start executing an instruction. Instruction name: 24. Install Updates. Instruction pointer: 20	TSManager	01-Nov-2019 2:51:07 P	3224 (0xC98)
Set a global environment variable _SMSTSCurrentActionName=24. Install Updates	TSManager	01-Nov-2019 2:51:07 P	3224 (0xC98)
Set a global environment variable _SMSTSNextInstructionPointer=20	TSManager	01-Nov-2019 2:51:07 P	3224 (0xC98)
Set a local default variable SMSInstallUpdateTarget	TSManager	01-Nov-2019 2:51:07 P	3224 (0xC98)
Set a local default variable SMSTSSoftwareUpdateScanUseCache	TSManager	01-Nov-2019 2:51:07 P	3224 (0xC98)
Set a global environment variable _SMSTSLogPath=C:\Windows\CCM\Logs\SMSTSLog	TSManager	01-Nov-2019 2:51:07 P	3224 (0xC98)
Expand a string: TSInstallSWUpdate.exe /target:%SMSInstallUpdateTarget%	TSManager	01-Nov-2019 2:51:07 P	3224 (0xC98)
Expand a string:	TSManager	01-Nov-2019 2:51:07 P	3224 (0xC98)
Start executing the command line: TSInstallSWUpdate.exe /target:%SMSInstallUpdateTarget%	TSManager	01-Nov-2019 2:51:07 P	3224 (0xC98)
!--!	TSManager	01-Nov-2019 2:51:07 P	3224 (0xC98)
Expand a string: FullOS	TSManager	01-Nov-2019 2:51:07 P	3224 (0xC98)
Executing command line: TSInstallSWUpdate.exe /target:%SMSInstallUpdateTarget% with options (0, 4)	TSManager	01-Nov-2019 2:51:07 P	3224 (0xC98)
=======================[tsinstallswupdate.exe] =======================	InstallSWUpdate	01-Nov-2019 2:51:08 P	4304 (0x10D0)
Running module version 5.0.8853.1000 from location 'C:\Windows\CCM\TSInstallSWUpdate.exe'	InstallSWUpdate	01-Nov-2019 2:51:08 P	4304 (0x10D0)
Running "TSInstallSWUpdate.exe" /target:All	InstallSWUpdate	01-Nov-2019 2:51:08 P	4304 (0x10D0)
Waiting for CcmExec service to be fully operational	InstallSWUpdate	01-Nov-2019 2:51:08 P	4304 (0x10D0)
Succeeded loading resource DLL 'C:\Windows\CCM\1033\TSRES.DLL'	InstallSWUpdate	01-Nov-2019 2:51:09 P	4304 (0x10D0)

Date/Time: 01-Nov-2019 2:51:09 PM   Component: InstallSWUpdate
Thread: 4304 (0x10D0)   Source: util.cpp:971

Succeeded loading resource DLL 'C:\Windows\CCM\1033\TSRES.DLL'

Elapsed time is 0h 0m 10s 656ms (10.656 seconds)

Configuration Manager Trace Log Tool - [\\win8\c$\Windows\CCM\Logs\SMSTSLog\smsts.log]

File   Tools   Window   Help

Log Text	Component	Date/Time	Thread
Raising event:instance of CCM_PolicyAgent_SettingsEvaluationComplete{ClientID = "GUID:2A9877E9-85D6-4DA0-BD1E-65A0E2AF214B";DateTime...	InstallSWUpdate	01-Nov-2019 2:53:25 P	4304 (0x10D0)
Successfully submitted event to the Status Agent.	InstallSWUpdate	01-Nov-2019 2:53:25 P	4304 (0x10D0)
End TS policy evaluation	InstallSWUpdate	01-Nov-2019 2:53:25 P	4304 (0x10D0)
Policy evaluation initiated	InstallSWUpdate	01-Nov-2019 2:53:25 P	4304 (0x10D0)
User specified not do any checking client location and waiting (if needed) before software updates	InstallSWUpdate	01-Nov-2019 2:53:25 P	4304 (0x10D0)
Evaluating software updates from cached scan results	InstallSWUpdate	01-Nov-2019 2:53:25 P	4304 (0x10D0)
Registry key HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate exists	InstallSWUpdate	01-Nov-2019 2:53:25 P	4304 (0x10D0)
Windows Update configuration: WUServer=http://CB.RAMLAN.CA:8530, WUStatusServer=http://CB.RAMLAN.CA:8530	InstallSWUpdate	01-Nov-2019 2:53:25 P	4304 (0x10D0)
GetIPriviledgedInstallInterface successful	InstallSWUpdate	01-Nov-2019 2:53:25 P	4304 (0x10D0)
Refreshing Updates	InstallSWUpdate	01-Nov-2019 2:53:25 P	4304 (0x10D0)
Successfully initiated RefreshUpdates operation. For troubleshooting, please refer to logs: UpdatesDeployment.log, UpdatesHandler.log, UpdatesSt...	InstallSWUpdate	01-Nov-2019 2:53:25 P	4304 (0x10D0)
Waiting for RefreshUpdates complete notification from Updates Deployment Agent	InstallSWUpdate	01-Nov-2019 2:53:25 P	4304 (0x10D0)
Notification received, RefreshUpdates have been completed	InstallSWUpdates	01-Nov-2019 2:53:26 P	2960 (0xB90)
Signaled RefreshComplete notification	InstallSWUpdates	01-Nov-2019 2:53:26 P	2960 (0xB90)
Received RefreshUpdates complete notification from Updates Deployment Agent	InstallSWUpdate	01-Nov-2019 2:53:26 P	4304 (0x10D0)
RefreshUpdates operation has been completed, hr=0x00000000	InstallSWUpdate	01-Nov-2019 2:53:26 P	4304 (0x10D0)
GetIPriviledgedInstallInterface successful	InstallSWUpdate	01-Nov-2019 2:53:26 P	4304 (0x10D0)
Installing all updates targetted for this computer	InstallSWUpdate	01-Nov-2019 2:53:26 P	4304 (0x10D0)
Checking if the active request handle: {5033569B-F88A-41D0-B074-D4D21E1AA3BF} is valid.	InstallSWUpdate	01-Nov-2019 2:53:26 P	4304 (0x10D0)
CoCreateInstance succeeded	InstallSWUpdate	01-Nov-2019 2:53:26 P	4304 (0x10D0)
Active request handle: {5033569B-F88A-41D0-B074-D4D21E1AA3BF} is valid.	InstallSWUpdate	01-Nov-2019 2:53:26 P	4304 (0x10D0)
Installation of updates started. For troubleshooting, please refer to logs: UpdatesDeployment.log, UpdatesHandler.log, UpdatesStore.log, wuahand...	InstallSWUpdate	01-Nov-2019 2:53:26 P	4304 (0x10D0)
Waiting for installation job to complete	InstallSWUpdate	01-Nov-2019 2:53:26 P	4304 (0x10D0)

Date/Time: 01-Nov-2019 2:53:26 PM   Component: InstallSWUpdate
Thread: 4304 (0x10D0)   Source: installswupdate.cpp:1108

Waiting for installation job to complete

Elapsed time is 0h 2m 27s 844ms (147.844 seconds)

Installing list of application that were included in the task sequence.

Win 10 IPU completed and logs saved.

Deployment Status from Monitoring Section.

About Windows

Windows 10

Microsoft Windows
Version 1903 (OS Build 18362.30)
© 2019 Microsoft Corporation. All rights reserved.

The Windows 10 Enterprise operating system and its user interface are protected by trademark and other pending or existing intellectual property rights in the United States and other countries/regions.

This product is licensed under the Microsoft Software License Terms to:

    Admin

OK

WIN7

Network

Recycle Bin

Control Panel

Acrobat

System

Control Panel > All Control Panel Items > System

Search Control Panel

File Edit View Tools

Control Panel Home

Device Manager

Remote settings

System protection

Advanced system settings

View basic information about your computer

Windows edition

Windows 10 Enterprise

© 2019 Microsoft Corporation. All rights reserved.

Windows 10

System

Processor:	Intel(R) Core(TM) i7-6650U CPU @ 2.20GHz 2.21 GHz
Installed memory (RAM):	2.98 GB
System type:	64-bit Operating System, x64-based processor
Pen and Touch:	No Pen or Touch Input is available for this Display

Computer name, domain, and workgroup settings

Computer name:	WIN7	Change settings
Full computer name:	WIN7.RAMLAN.CA	
Computer description:	Windows 7 Workstation	
Domain:	RAMLAN.CA	

Windows activation

Windows is activated Read the Microsoft Software License Terms

See also

Security and Maintenance

Product ID: 00329-00000-00003-AA840   Change product key
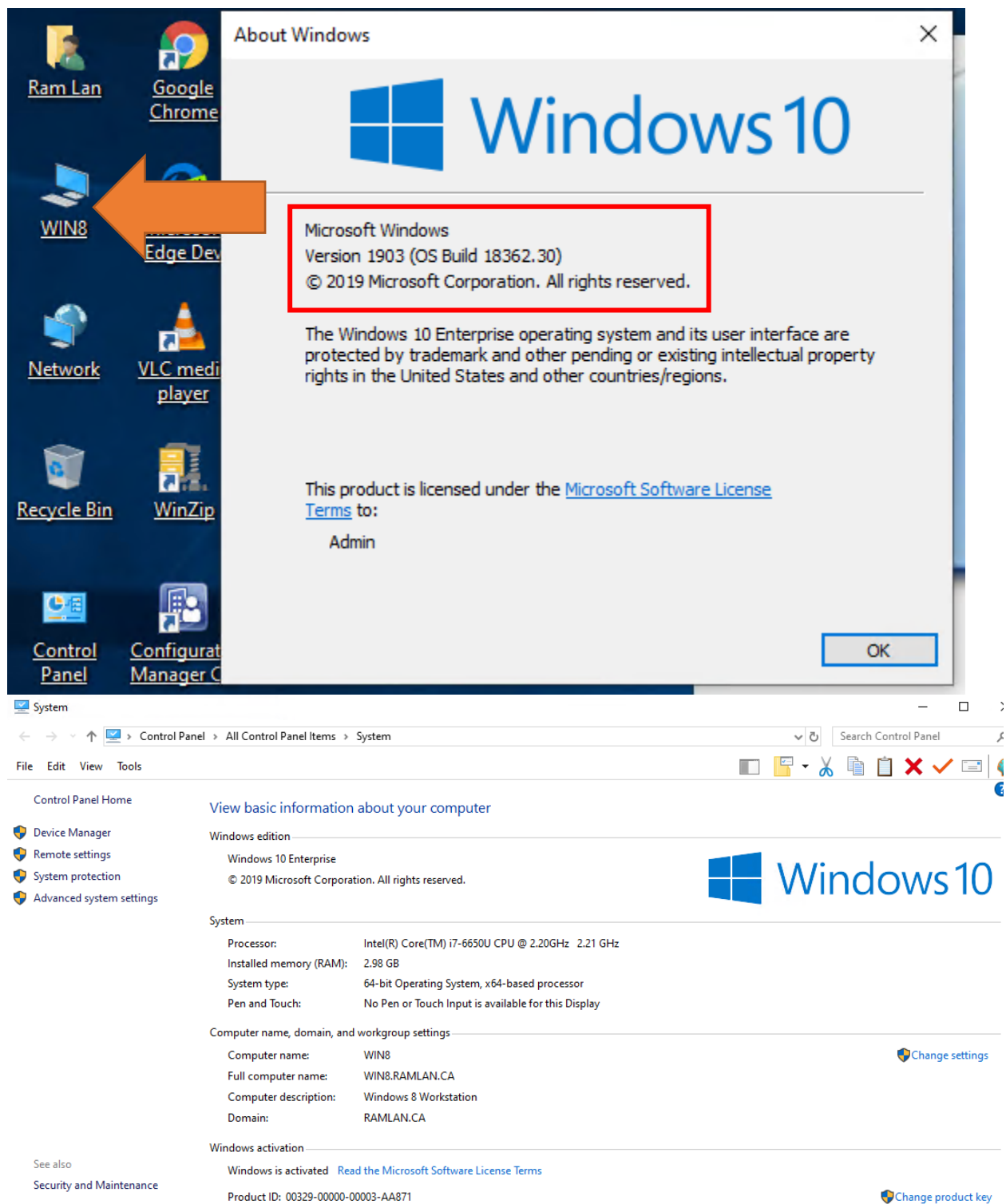
This concludes the whole process of fully automated Windows 10 IPU.

Thanks

Ram Lan
1st Nov 2019