

Speaker: Derek Gauer

Co-Speaker: Ted Martin



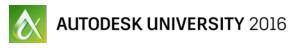
Class summary

- You don't have to be an Information Technology specialist to deploy Autodesk software the easy way.
- Autodesk software installs can take sufficient effort to deploy to multiple computers. This class will
 explore the creation of deployment packages and push technology. This can greatly reduce the amount
 effort to deploy Autodesk software.
- Streamline the deployment of Autodesk software and add-ons using Microsoft System Center Configuration Manager 2012 r2 © (SCCM) and script technology. When deploying Autodesk products to two or a thousand computers, you can use these techniques with SCCM. You can also use this same workflow for other similar IT software management tools to deploy Autodesk products.
- We will briefly explore the creation of Autodesk packages using the out of the box tools in Autodesk products. We will run through how to create an SCCM software package, and deploying the Autodesk build to a collection of computers. We will also explore how to deploy third party or Autodesk add-ons to the same collection of computers using scripts and SCCM. SCCM has powerful reporting tools to monitor the software deployment status during and/or after the deployment.



Outline of course

- Introduction of presenters, Design Technology and our experiences deploying Autodesk Software (Design Technology Group at IBI Group)
- Creation of Autodesk packages for 2016/2017 design suites
- 3. Creation of batch files to install Autodesk or third party applications
- 4. SCCM package creation for Autodesk products and add-ons.
- 5. Deploying your programs
- 6. Checking the status of the deployment
- 7. Running a report





IT18200: Deploying Autodesk software the easy way

Who are we?

Derek Gauer IBI Group Toronto, Ontario, Canada

Design Technology Group Global Portfolio Manager, Software, Hardware, Support and IT Liaison

Derek Gauer has more than 25 years of CAD management experience, and he has worked at IBI Group for the past 23 years. Mr. Gauer specializes in CAD management, road design (including horizontal and vertical alignment), quantity calculations, and contract document preparation. Mr. Gauer's current position is the global manager for the hardware, software, and support in the Design Technology Group. His experience of CAD, Building Information Modeling (BIM), and IT has enabled him to integrate over 20 new firms into the IBI Group of companies. He supports over 1,500 users spread across 65 offices in ten countries. His role includes investigating and implementing training methodologies and researching new advancements in software. Mr. Gauer has extensive knowledge of AutoCAD AutoCAD Map 3d, AutoCAD Civil 3D, Revit, 3ds Max, and InfraWorks 360 software. Mr. Gauer is a member of the Autodesk User Group International (AUGI), Groundbreakers AutoCAD Civil 3D User Group, and the Ontario Revit User Group.

Email dgauer@ibigroup.com





IT18200: Deploying Autodesk software the easy way

Who are we?

Ted Martin IBI Group Waterloo, Ontario, Canada

Design Technology Group Global Portfolio Manager, Software, Hardware, Support and IT Liaison

Mr. Martin one of the few full time support staff tasked with global CAD support. Mr. Martin has almost 22 Years of experience with Autodesk product and consulting services. He has a background in Civil and had a brief stint as a mechanical / manufacturing designer prior to joining IBI.

Mr Martin was hired by Cumming Cockburn Limited in 2002 to help rebuild a local presents in Waterloo Ontario Canada and managed CAD and IT operations. In 2004 IBI acquired CCL and he began helping with integrations shortly after that. Since Mr Martin has been a CAD team lead on integrations, this offered lots of opportunities to see customization and work flow in a multitude of applications. Currently he supports over 65 offices and 1,500 users worldwide

Email tmartin@ibigroup.com





Polling question

Question 1: How many of you do manual installs?

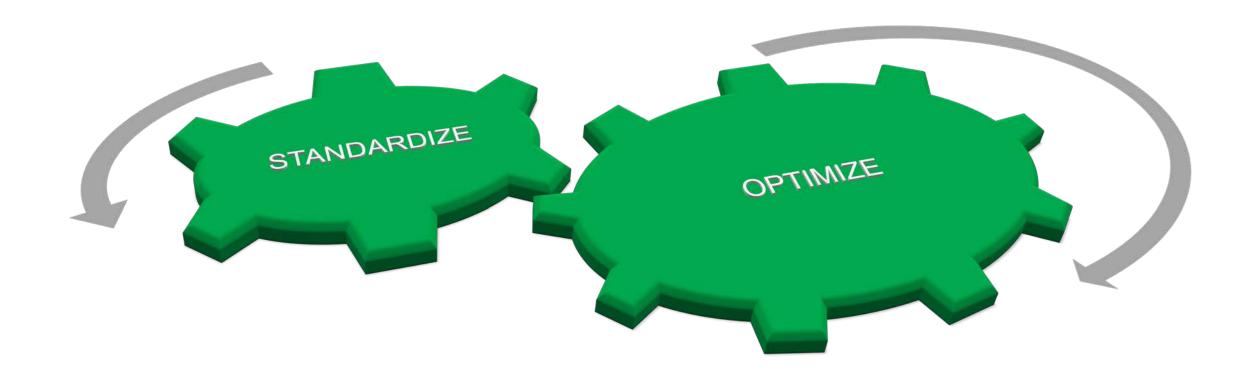
Question 2: How many of you automate the installs?



What is a Design Technology group?

Design Technology is a group of former CAD Designers, CAD managers, BIM managers working for the alignment of the overall corporate goals. The Design Technology group or (DT) need to work very closely with the IT group.

Our goals are to:





What is unique about Design Technology (DT)?

- DT works at a user level to resolve all issues related to project deliverables, workflow or software issues.
- DT makes decisions based on calculated evaluations that IT may not have the expertise or time to assess.
- DT controls licensing management and ensures the company is compliant with all design technology license agreements.
- DT tests and evaluates hardware for its functionality within the area of design, maintaining a fiscal balance between cost and performance.
- DT is a specialized subset of IT that marries management ideology, IT technology and most importantly, user sensitivities.



Why not just leave the deploying of software to your IT department?

- IT maybe good at installing some software, but DT has a working knowledge of software and the design requirements for projects.
- DT can test the applications and coordinate the best products and addons to deploy globally and locally.
- IT may be too busy to deploy critical design software during project ramp up. New versions of Revit may be required on projects that are outside a corporate standard. DT can download, build and deploy with short notice.
- DT proactively monitors patches and hotfixes and can set up pushes resolving critical issues ahead of any impact for users.



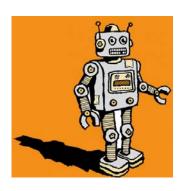
Why not just leave the deploying of software to IT?

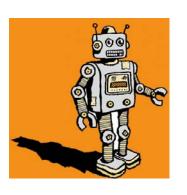
- Real world example
 - Recent example from our company: we needed to deploy the performance fix for Civil 3d 2014 and 2016 to over 400 computers in many offices and countries. We were able to do this efficiently and quickly using SCCM.

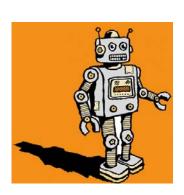


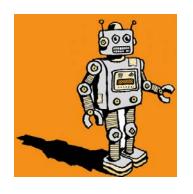
Why use Microsoft System Center Configuration Manager 2012 r2© (SCCM)

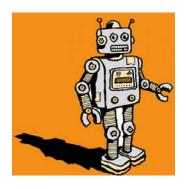
- Faster (about twice as fast to install applications)
- You can push to one or thousands of computers, it is like your own personal robot to do installs



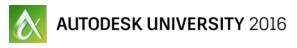








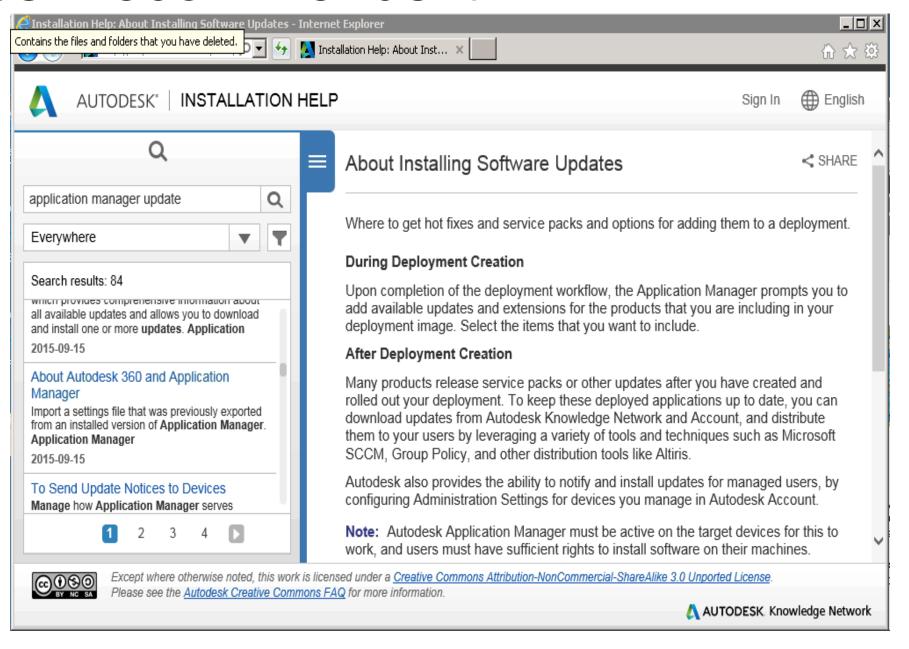
- You can uninstall applications
- You can run reports





Why use Microsoft System Center Configuration Manager 2012 r2© (SCCM)

Autodesk recommends it.





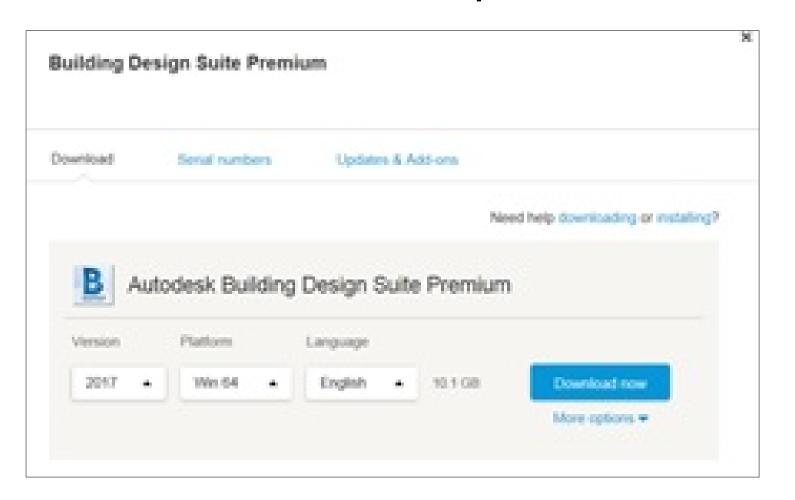


Login into your subscription account.

https://accounts.autodesk.com/Logon

Download your products.

Go to all products & services and select the products to download.

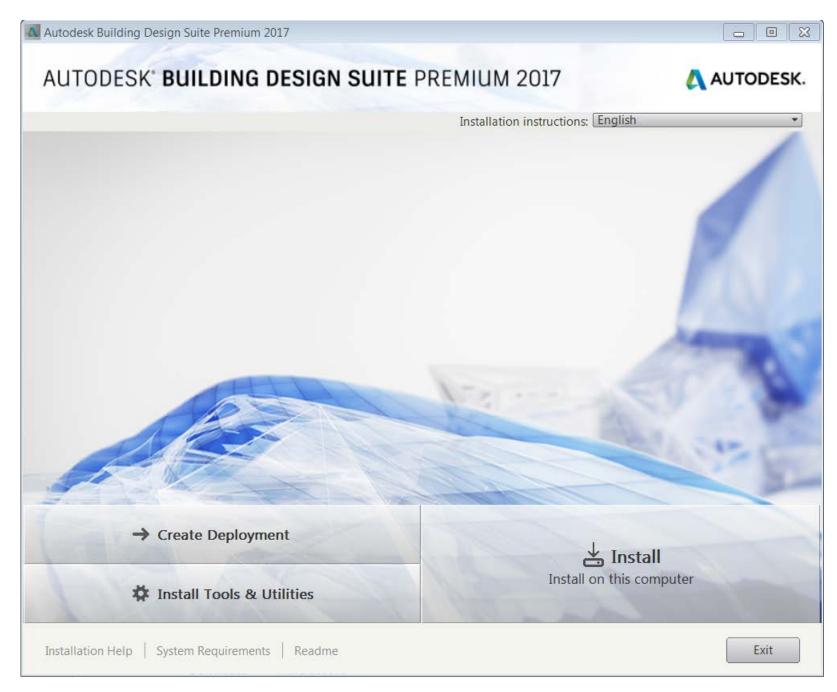






Start creating a deployment

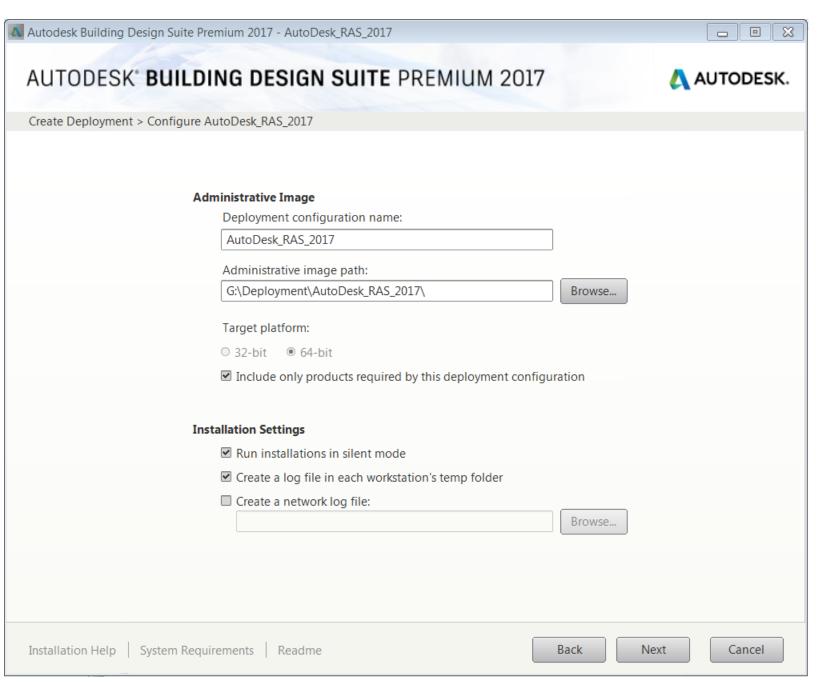
Double click on the downloaded file and start creating the package





Configure deployment

Type in your deployment configure name and administrative path.
Use a Universal Naming
Convention (UNC) or mapped drive for the server location. For example
\server1\deployments\Autodesk_
BDSP_2017

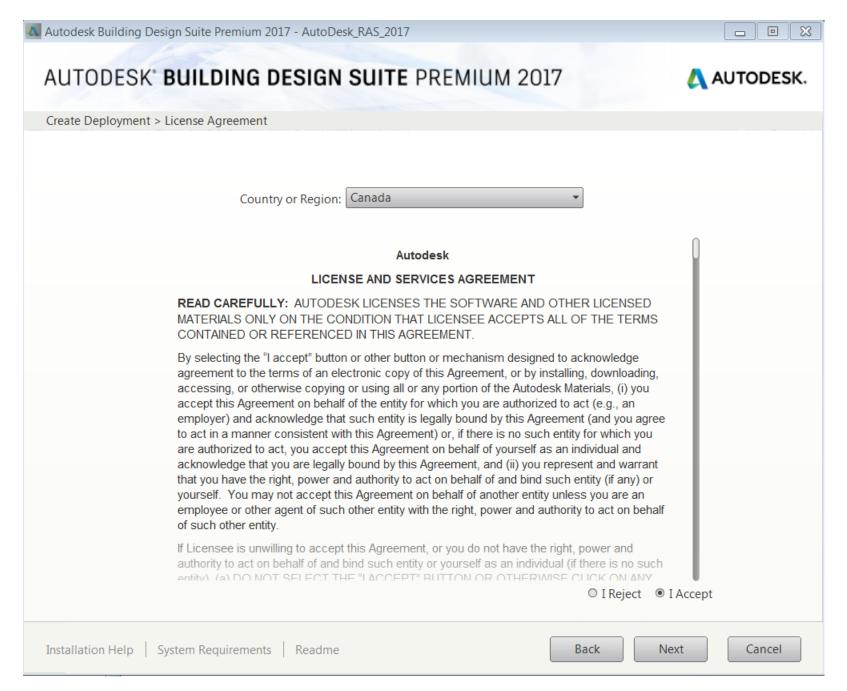






License agreement

Select your Country or Region. Read your license and services agreement. Click next

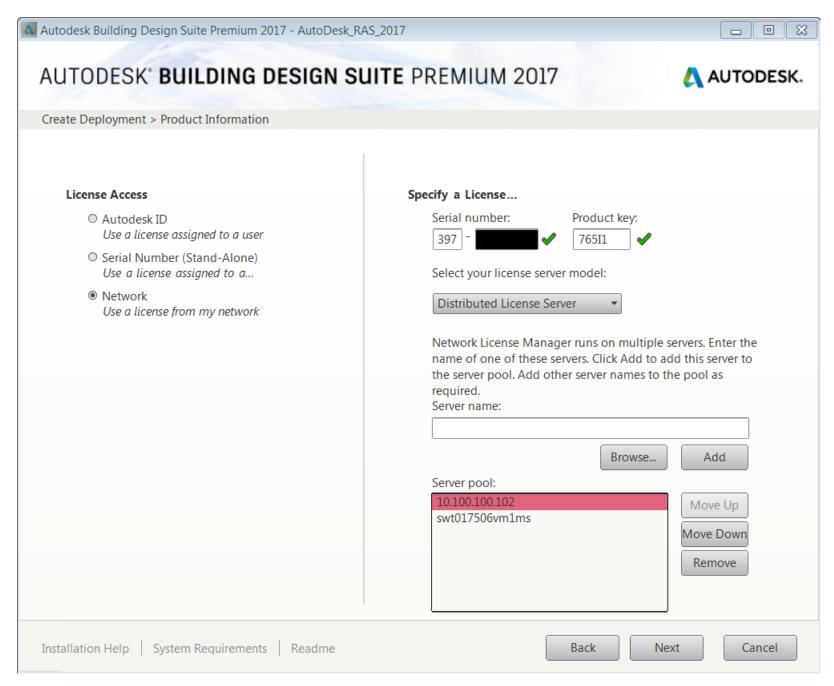




Product Information

Select license access type. Enter you license info and product key.

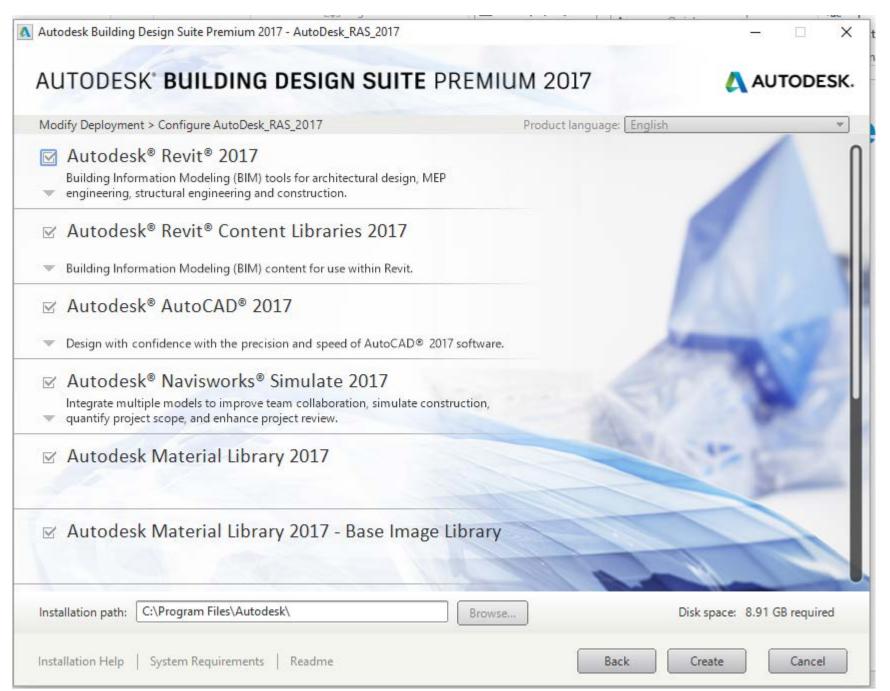
Add your required servers if it is a network license.





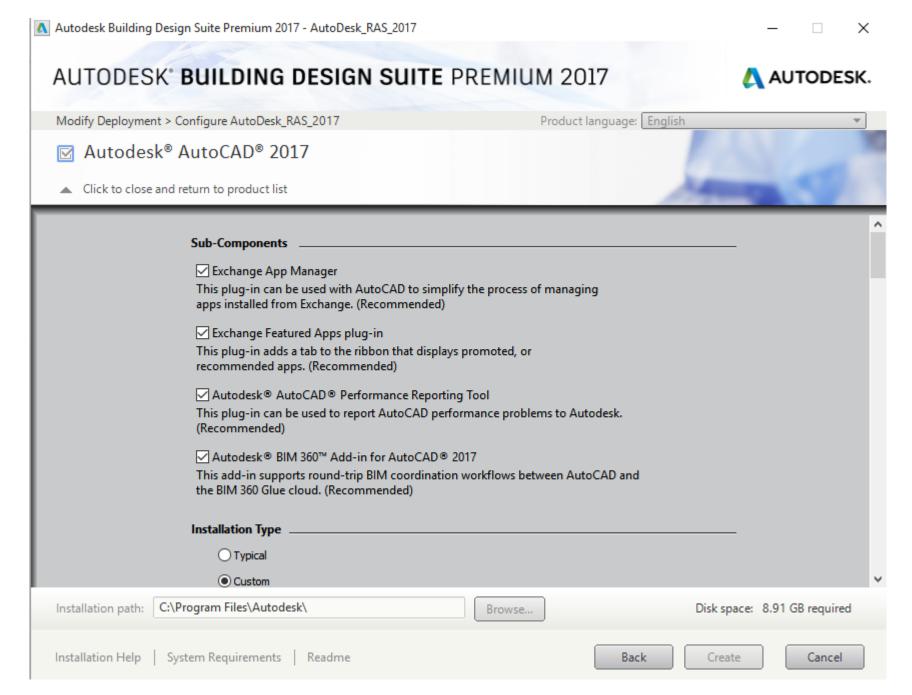
Modify deployment

Select and configure your products to be installed





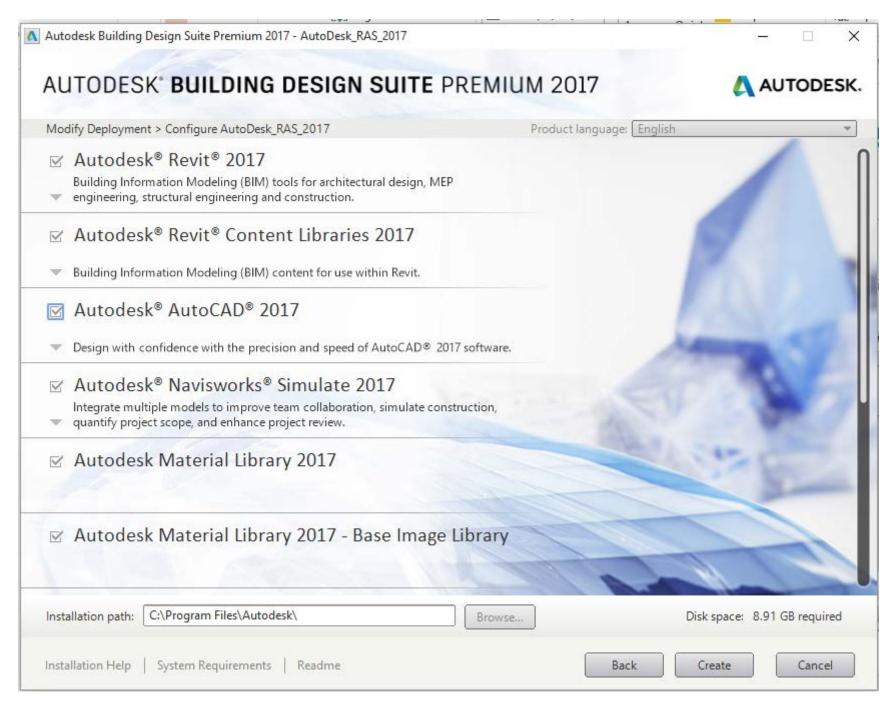
Configure AutoCAD





Create the deployment

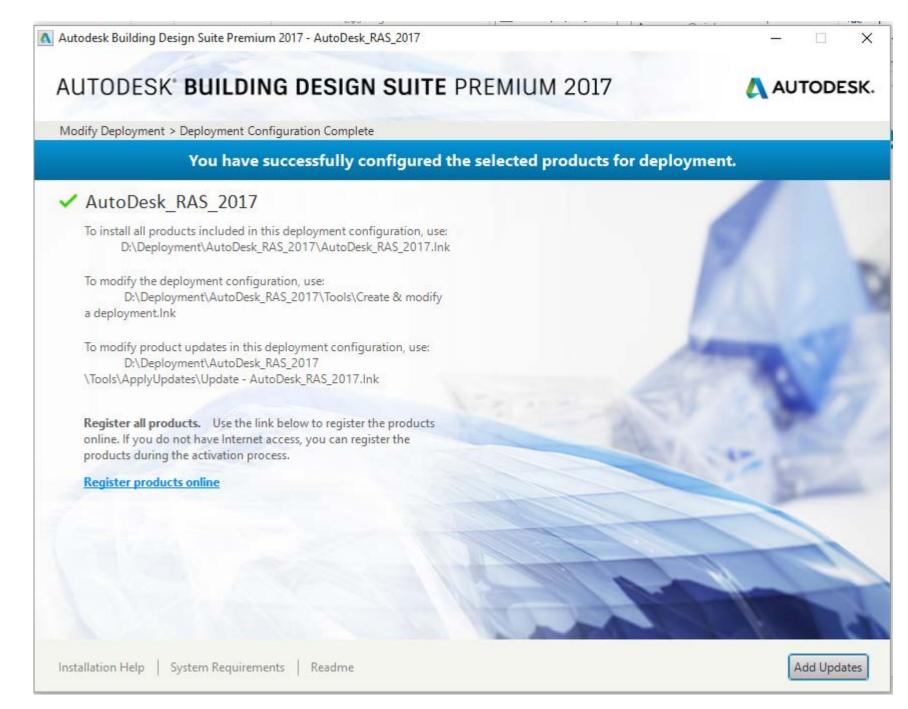
Click create to build your deployment.







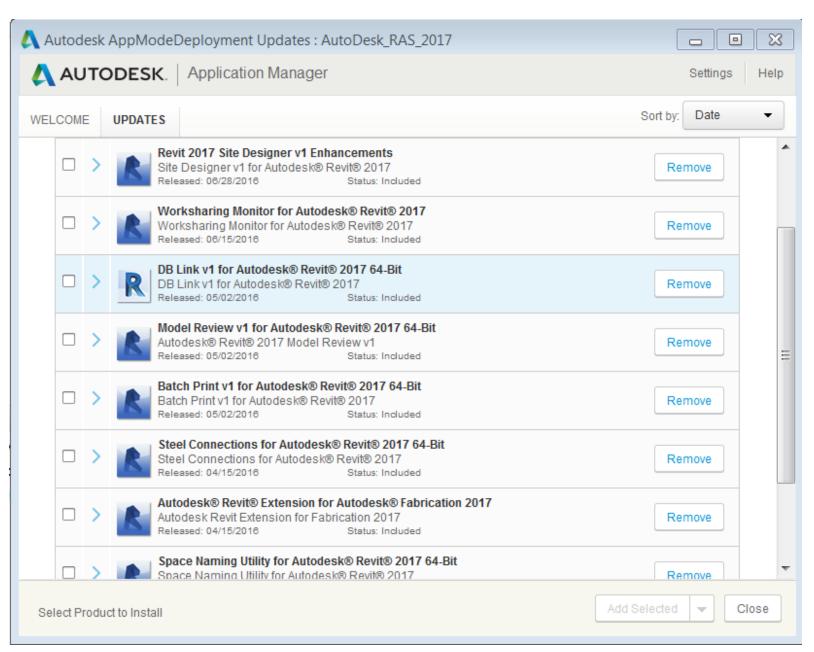
Deployment is finished.





Add updates as required.

Updates can be added later using a command script.



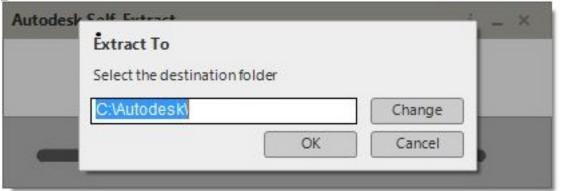




 You can create simple batch files in notepad to deploy add-ons, third party apps, service packs and customization.

Download the add-on and extract to c drive or server

location.

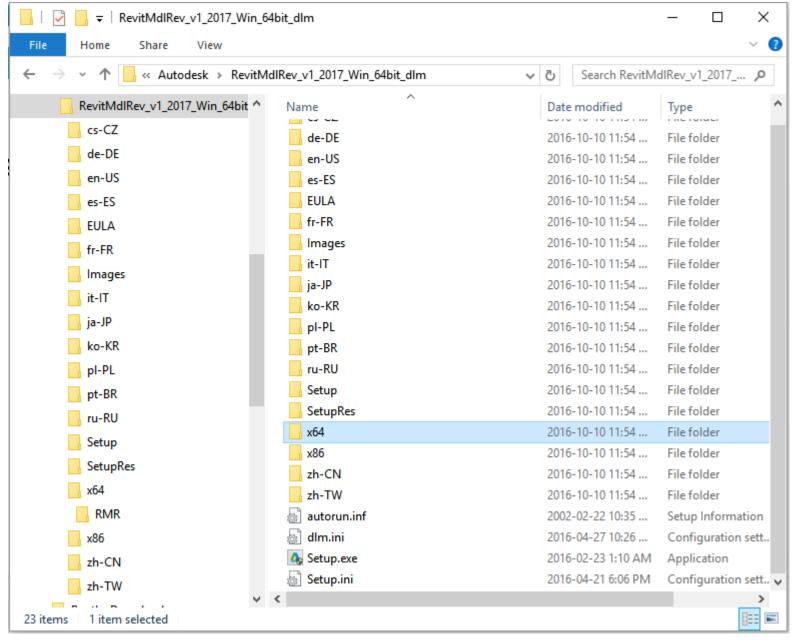


This example is Autodesk Revit model Review 2017.



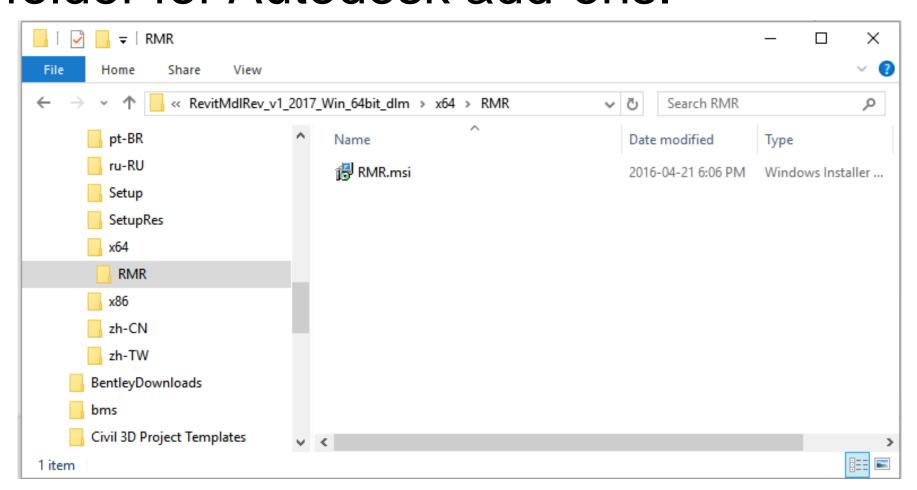


 Review setup files and find msi files.





 Typically msi files for add-ons are located in the x64 folder for Autodesk add-ons.





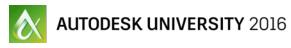
- Create your Command or batch files in Notepad or notepad plus. Make sure you extension is either .cmd or .bat.
- Example 1 Batch file created in notepad to install Revit add-on

```
msiexec /i "\\server1\deployments\AutoDesk_BDSP_2017\Revit_Addon\RevitMdlRev_v1_2017_ Win_64bit_dlm\x64\RMR.msi" /qn
```





AU 2016_IT18200_Revit-addon_sample.cmd





- Example 2 Batch file created in notepad to install Civil 3d addon
- Extract C3D_2016_PROD_PACK_1_ENGLISH_64.exe to folder \\Img\x64\Components\ with WinRAR or 7-Zip
- msiexec /i "\server1\deployments\C3D_2016_PROD_PACK_1_ENGLISH_64\Autodesk_AutoCAD_C3D_2016_Productivity_Pack1.msi" /qn



AU 2016_IT18200_Civil3d-addon_sample.cmd





Commonly used MSIEXEC command line switches:

Switch Effect

/qn Performs the install/patch with no user interface (silent install).

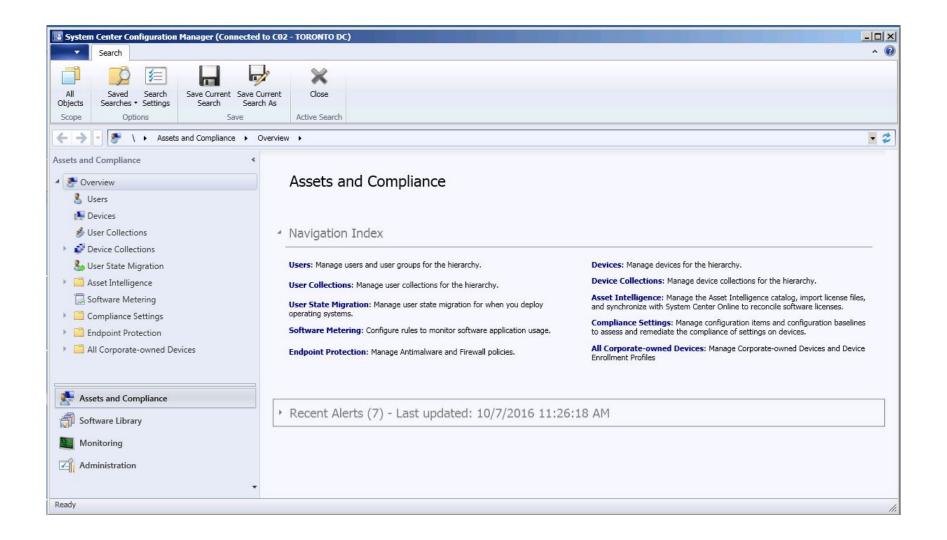
/qb Quiet with a file installation progress bar during installation/service pack update.

/qr Quiet with a progress thermometer on the standard wizard dialog (no questions)



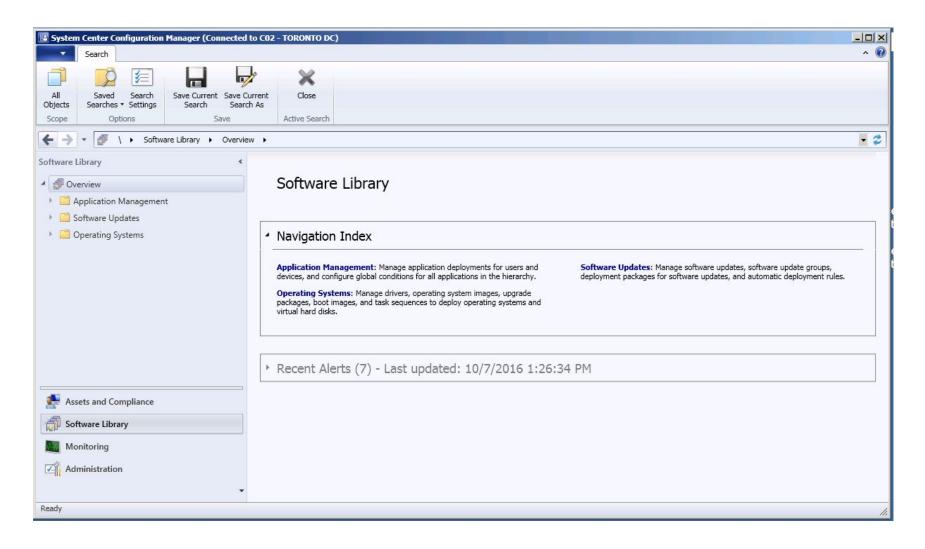


SCCM packages creation Run SCCM console from workstation or server



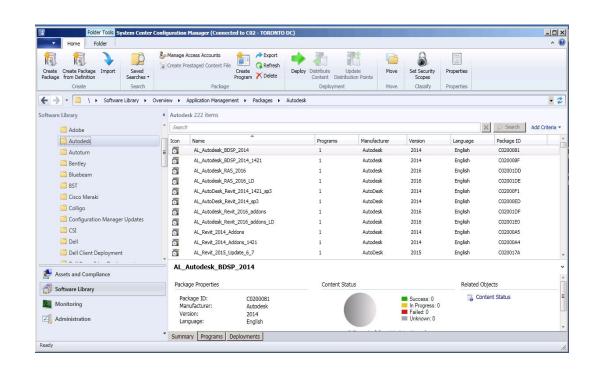


SCCM packages creation Open Software Library

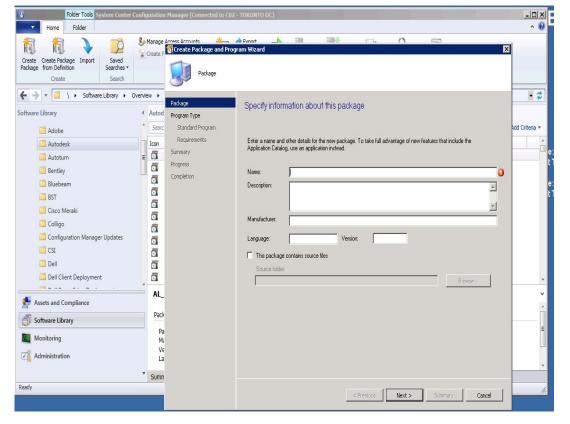




Create Autodesk folder and select folder



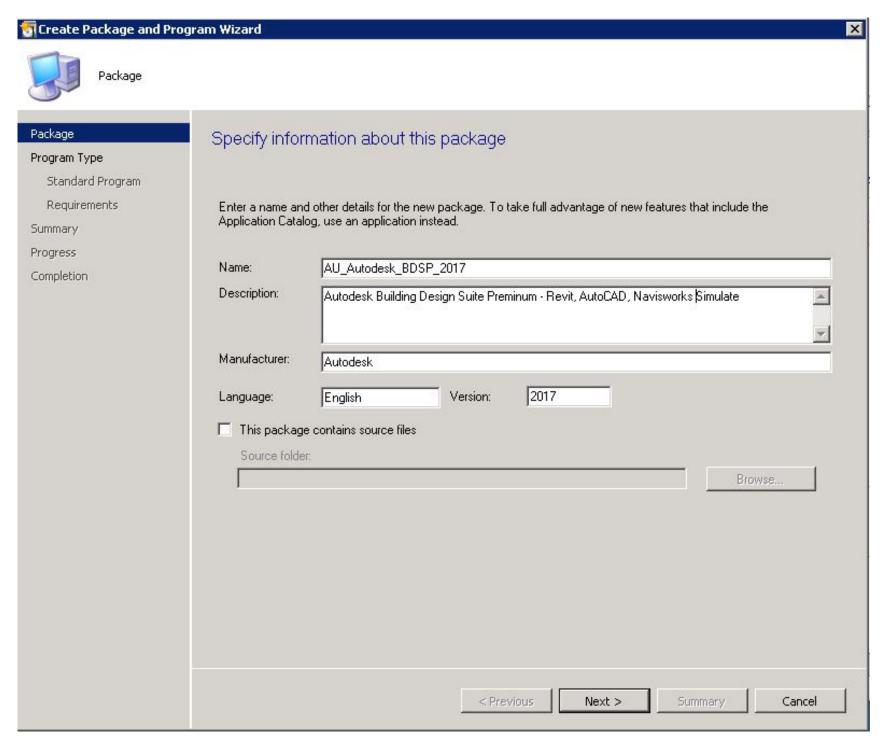
Click create package



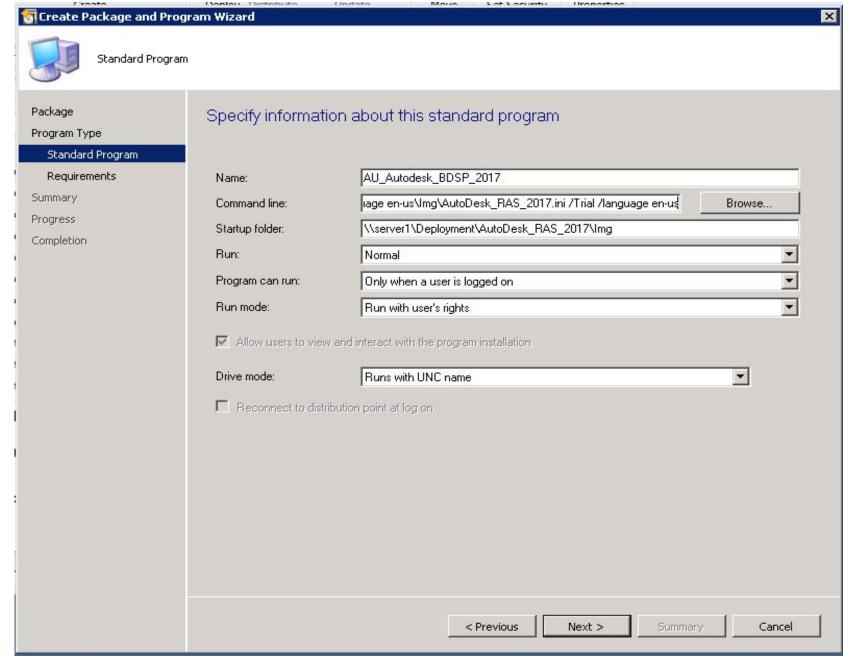




Specify the information about the package



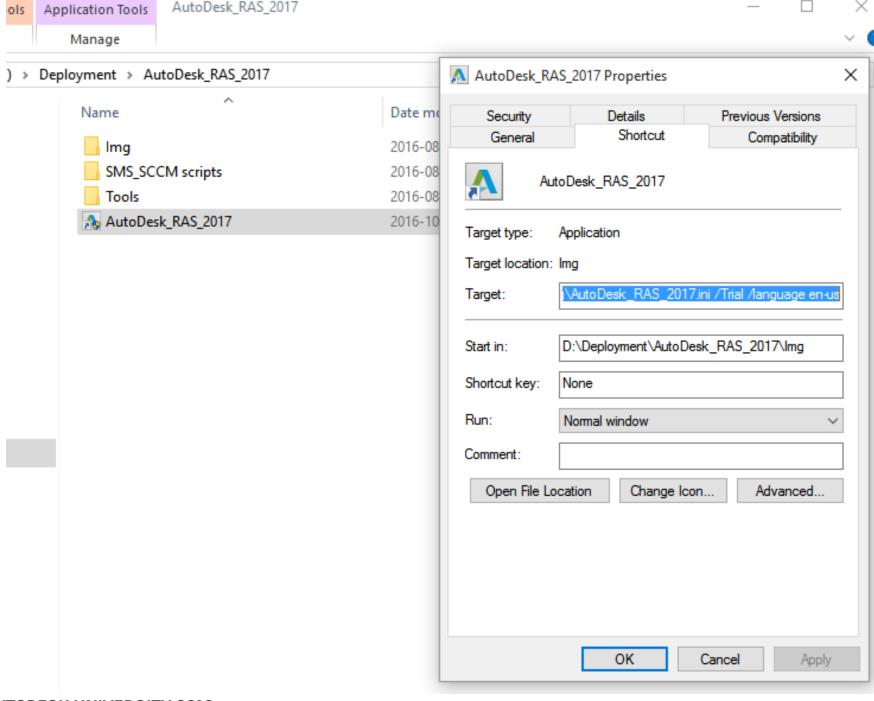




Input the information about this standard program.

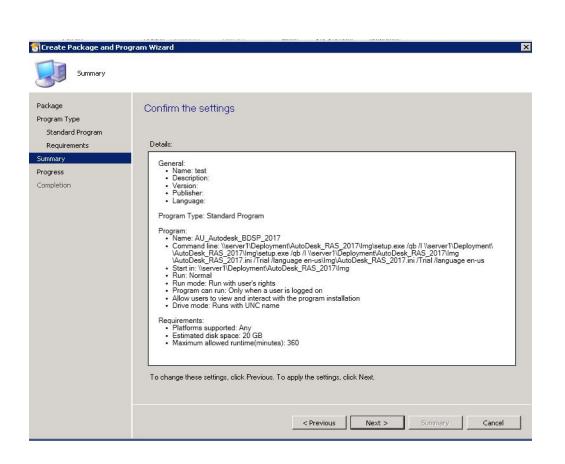
Since Autodesk software are generally deployed silently to multiple computers at the same time, the software needs to run silent (Hidden). Whether or not a user is logged on, and with administrator rights.

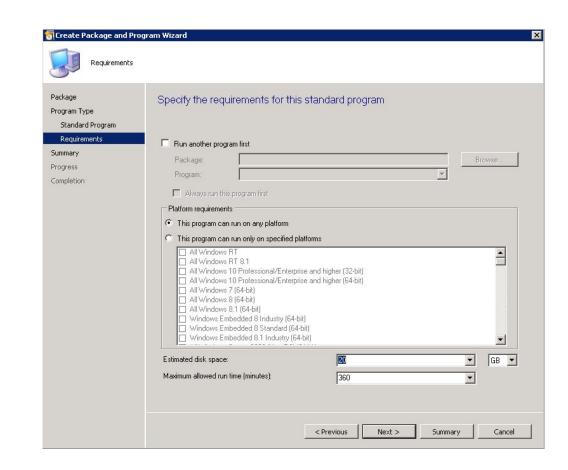




Copy command switching and startup folder from the Autodesk deployment shortcut

Specify the requirements for this standard program

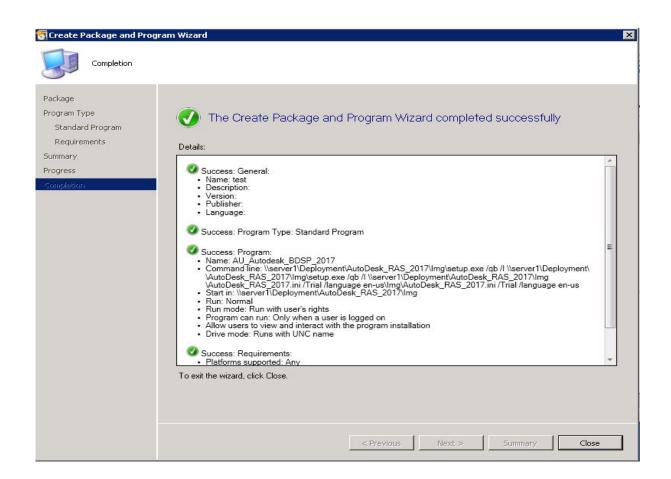




Confirm the settings and click next.

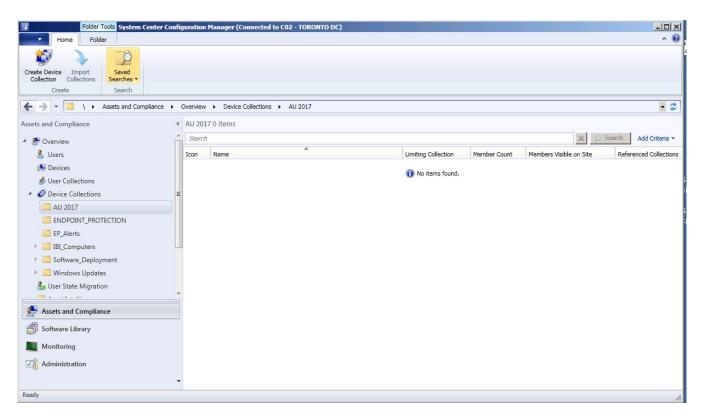


Click close and the package and program wizard is completed.





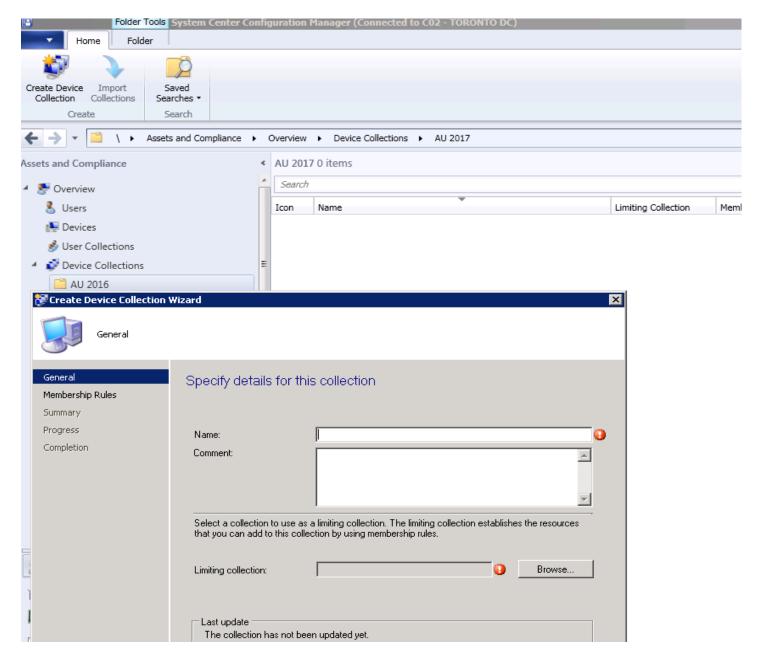
SCCM packages creation Create new device collection



Navigate to Assets and compliance-Overview-Device collection – Software deployment – Au 2017



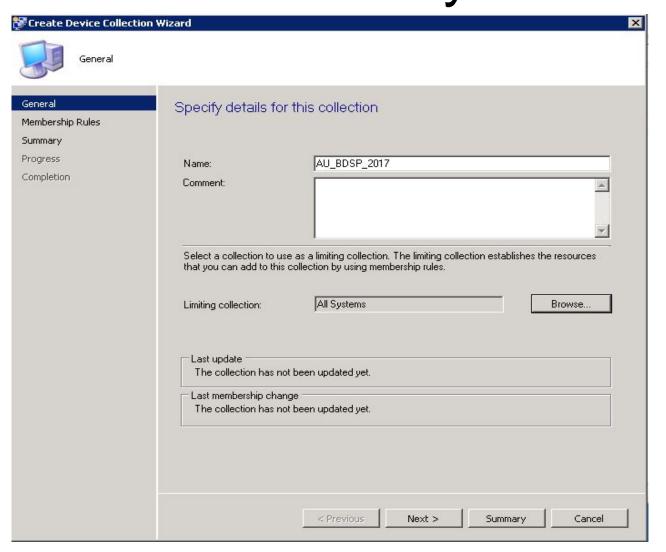
SCCM packages creation Create new device collection

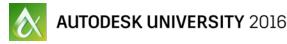




Create new device collection

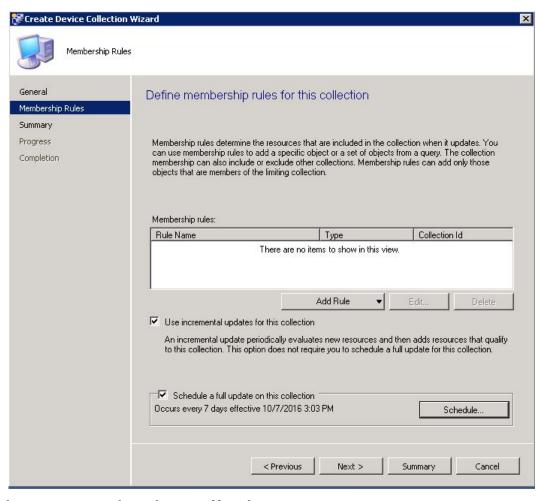
Specify details for this collection – Limit collection as necessary.







Define membership rules for the collection. Add direct rule or query rules

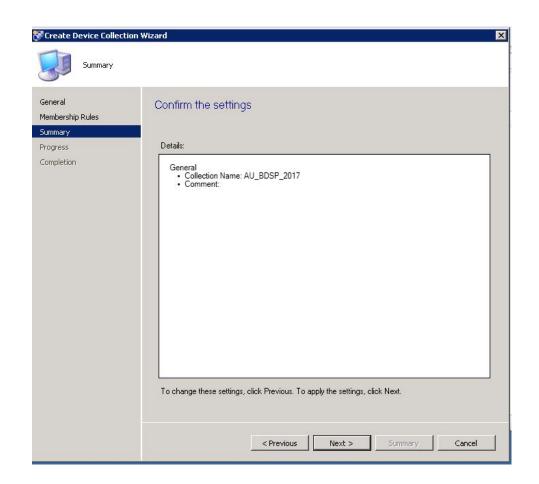


Example query rule to find computers with Revit 2014, so newer products can be installed Query Language – Query Statement select

SMS_R_SYSTEM.ResourceID,SMS_R_SYSTEM.ResourceType,SMS_R_SYSTEM.Name,SMS_R_SYSTEM.SMSUniqueIdentifier,SMS_R_SYSTEM.ResourceDomainORWorkgroup,SMS_R_SYSTEM.Client from SMS_R_System inner join SMS_G_System_INSTALLED_SOFTWARE on SMS_G_System_INSTALLED_SOFTWARE.ResourceId = SMS_R_System.ResourceId where SMS_G_System_INSTALLED_SOFTWARE.ARPDisplayName like "Revit 2014%"

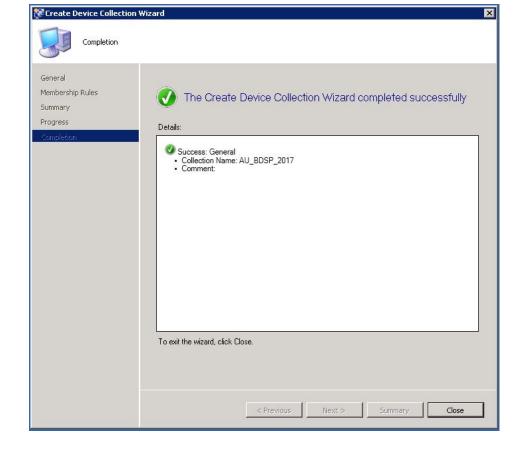






Confirm the settings – click next.

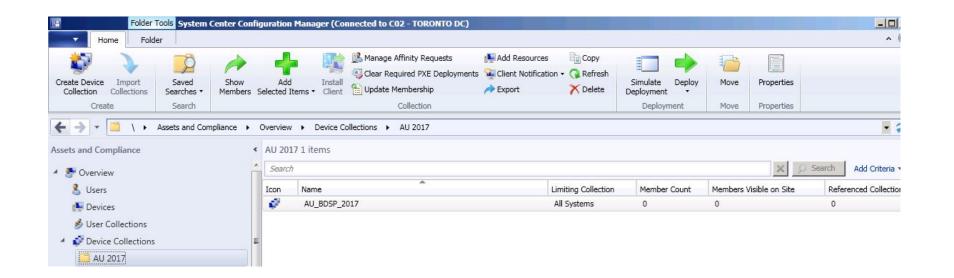
Collection is complete.





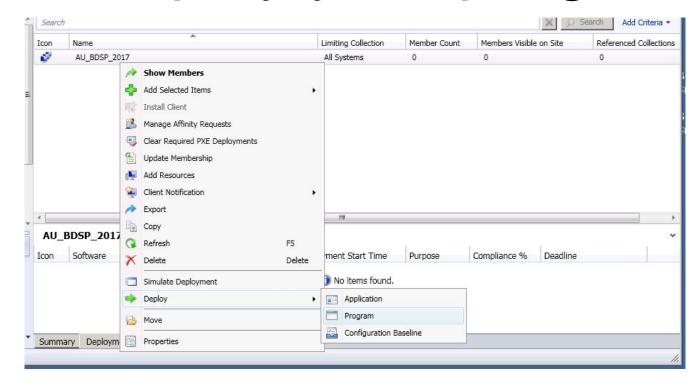


Collection is now displayed



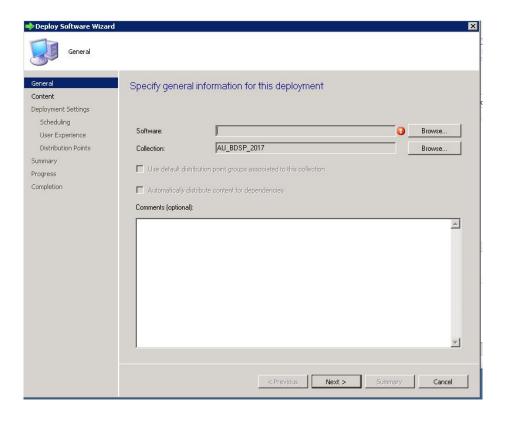


SCCM packages creation Deploy your program



Specify general information for this deployment

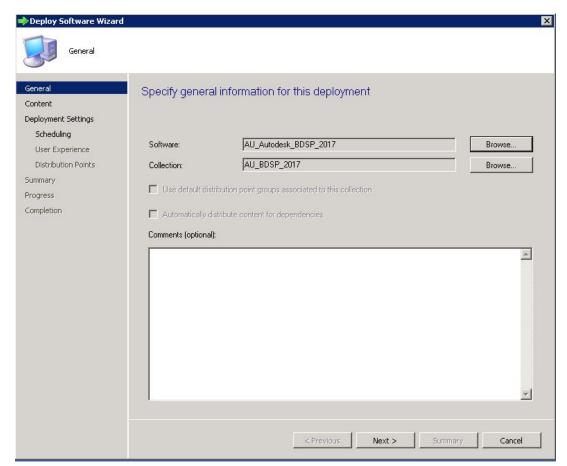
Deploy your program – right click on the deployment

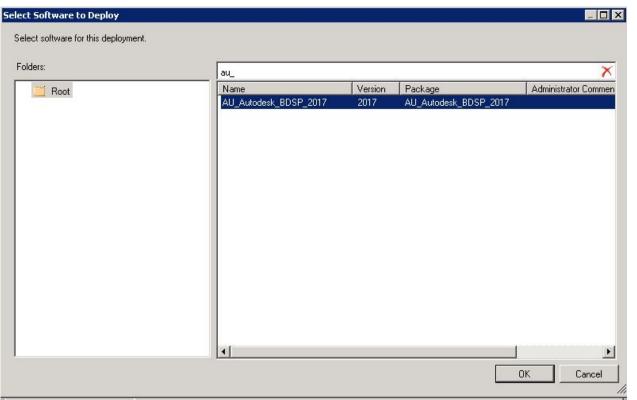






Select software to deploy

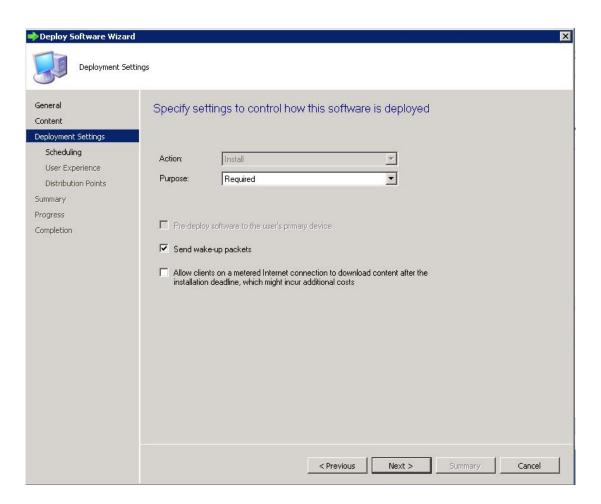


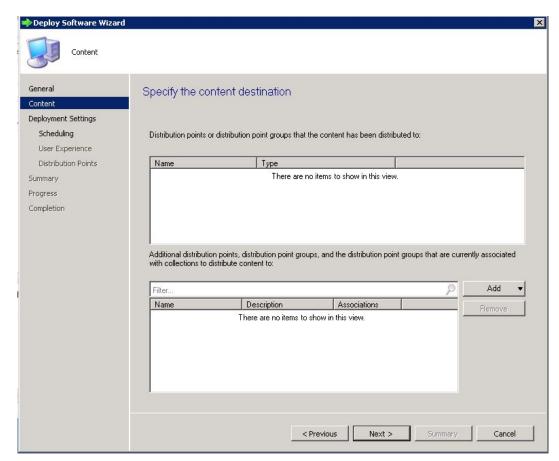


Specify general information for this deployment



Specify the content destination or click next

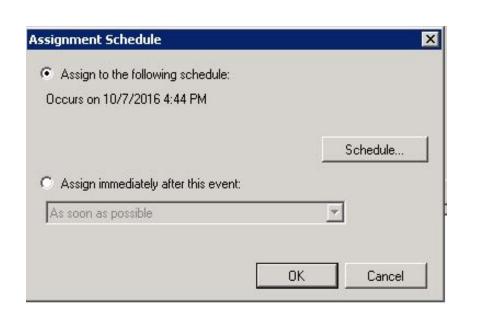


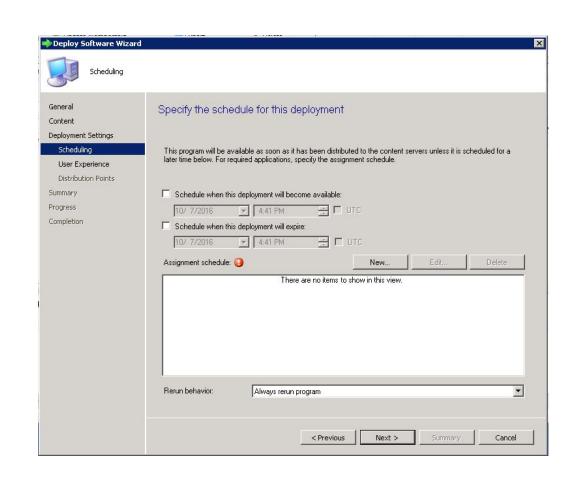


Specify settings to control how this software is deployed.



Specify the schedule for this deployment.

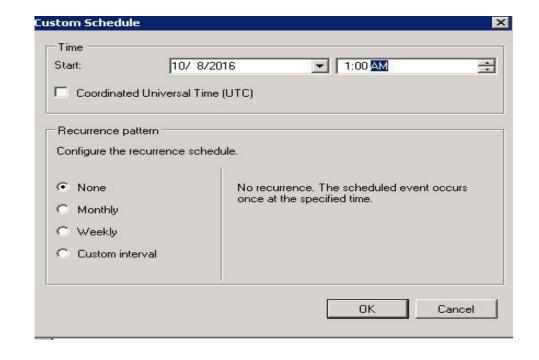


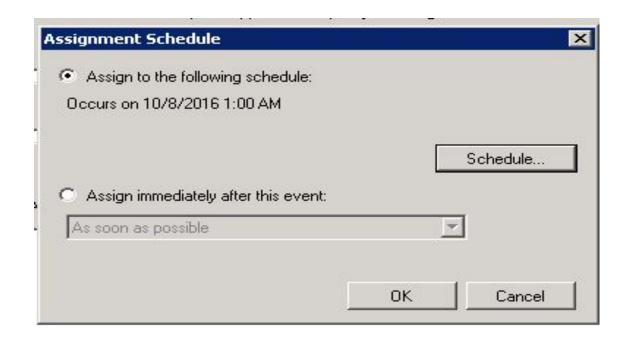


Assignment Schedule



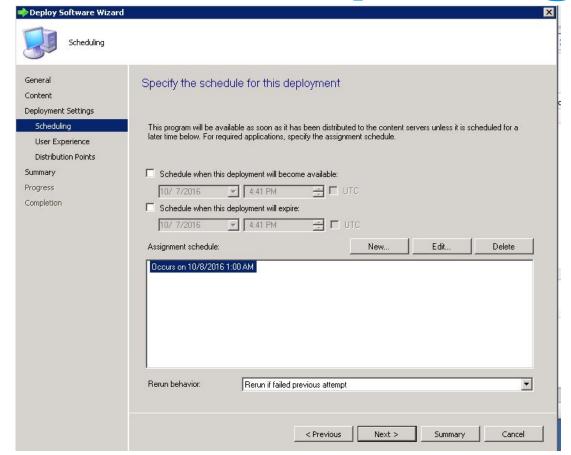
Create custom schedule





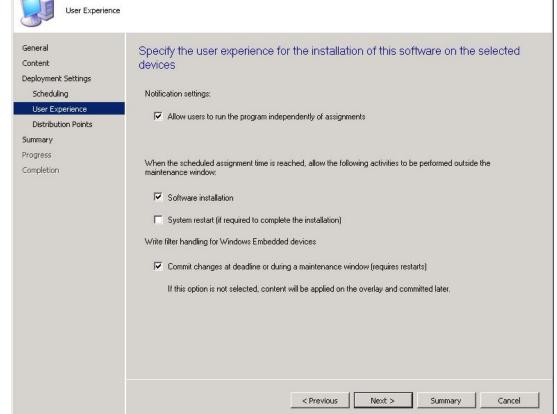
Assignment Schedule – Click ok



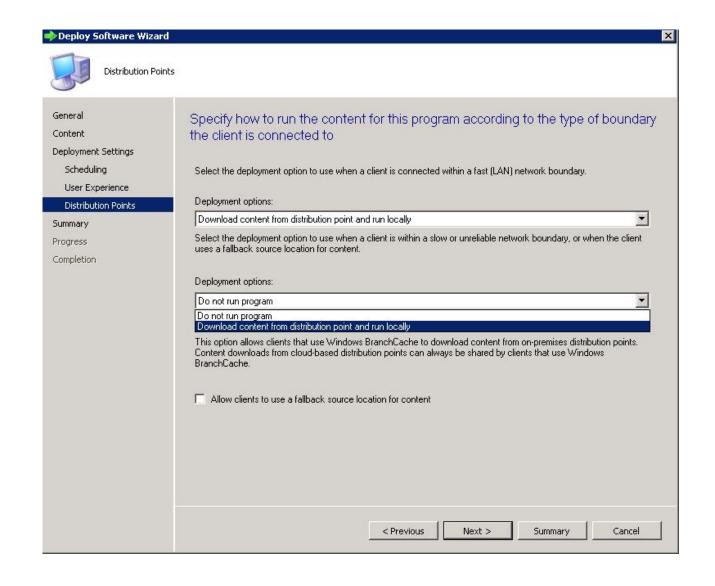


Specify the schedule for this deployment is complete – Click next

User Experience- Select the user experience for the installation of this software on the selected devices.

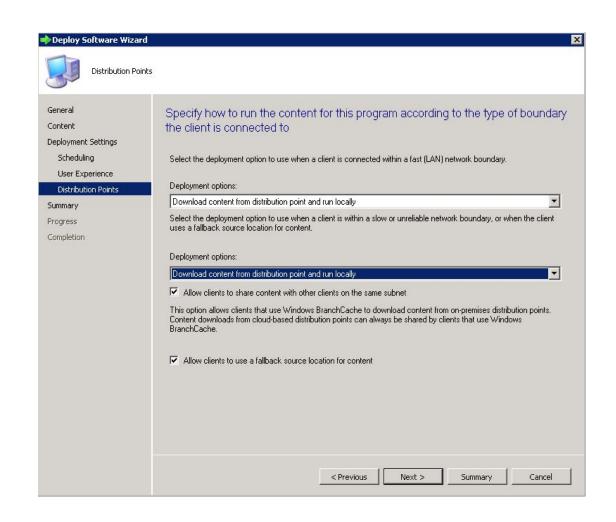






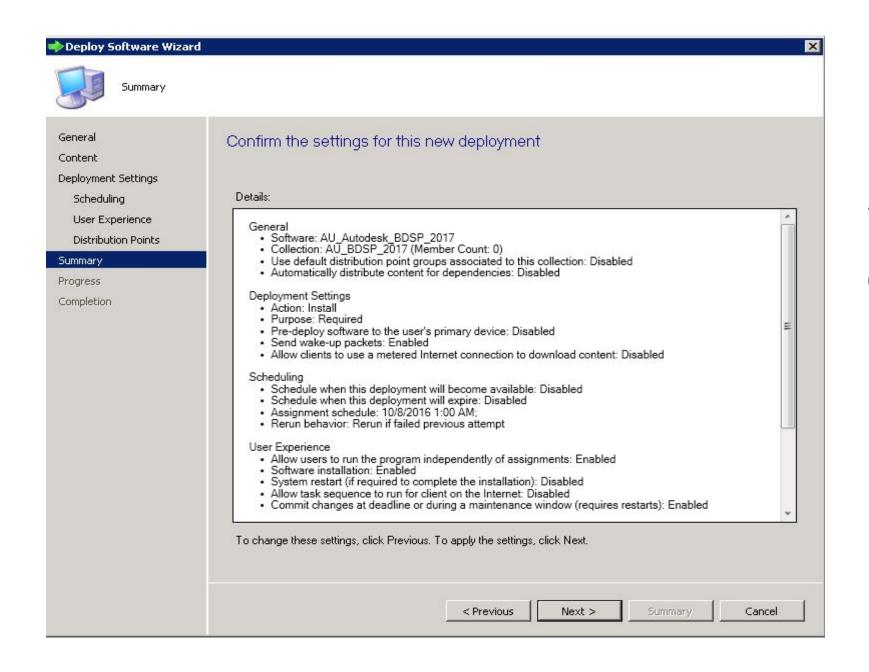
Specify how to run the content for this program according to type of boundary the client is connected to.





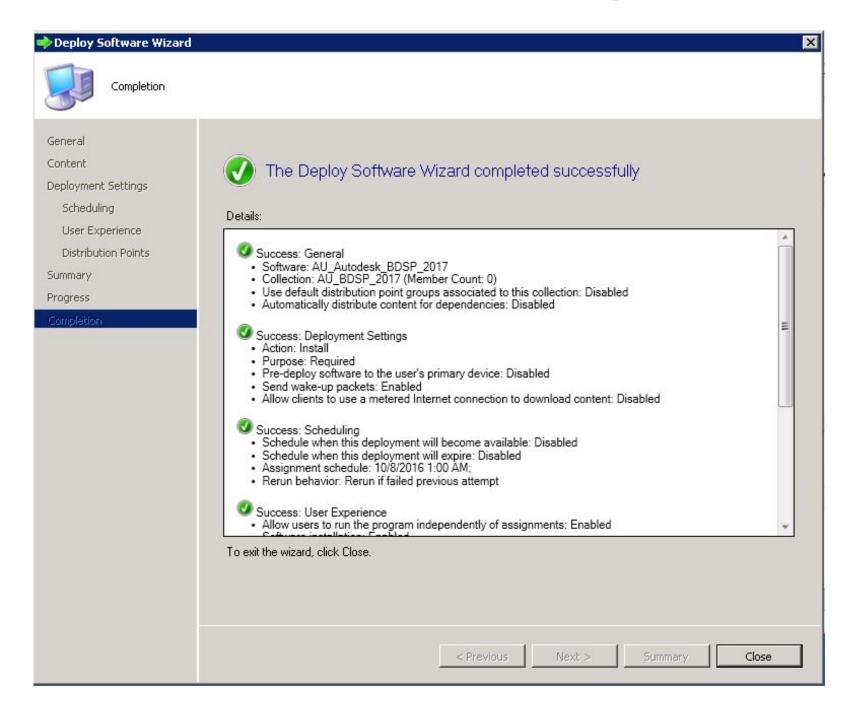
User experience – Select the user experience for the installation of this software on the selected devices. Click next





Summary – Confirm the settings for this new deployment – click next.





Completion – The deployment software wizard competed successfully. Click close

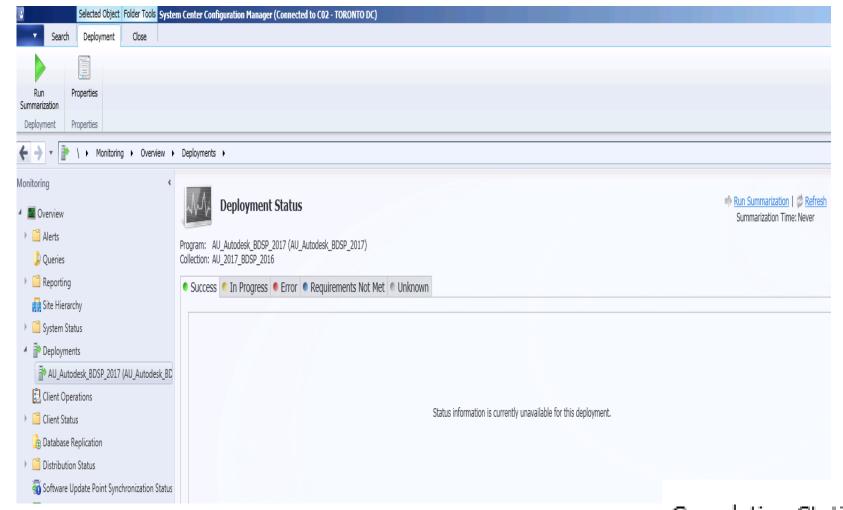


Software Center				_	_ >
				IBI GROUP -	IT Departmen
Available Software	Installation Status	Installed Software	Options		
SHOW All	▼ ✓ Show optio	nal software		SEARCH	۶
				Find additional applications from the Appli	ication Catalog
NAME	ТҮРЕ	PUBLISHER	AVAILABLE AFTER	STATUS	
		NI.	- Name Count		

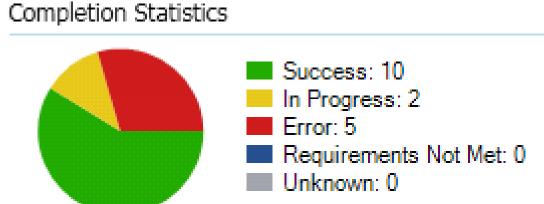
On the workstation, you will see the available software if you selected user experiences correctly.



Check the status of the deployment

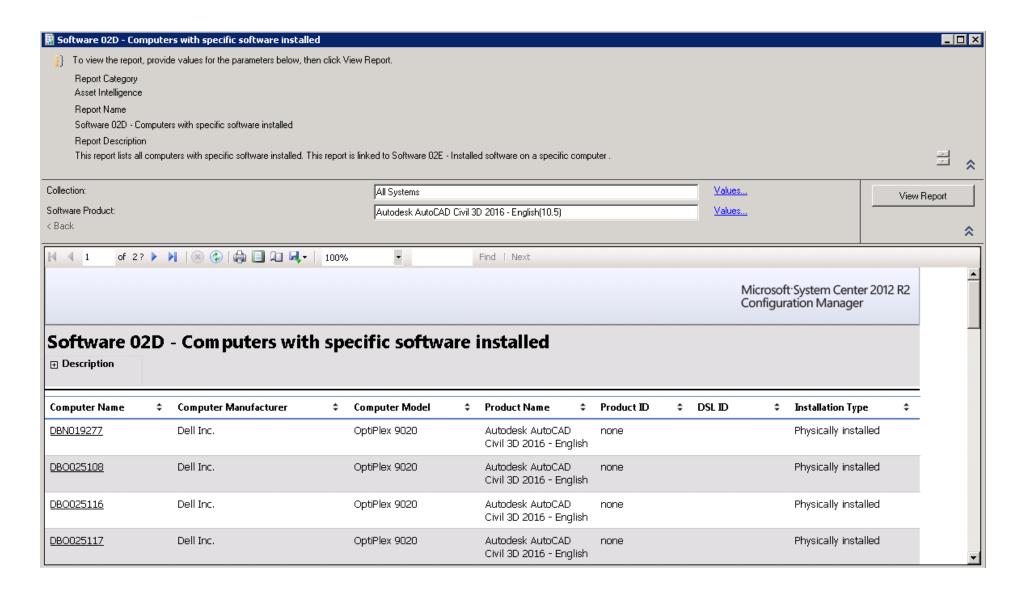


Monitor overview of deployment — Deployment Status





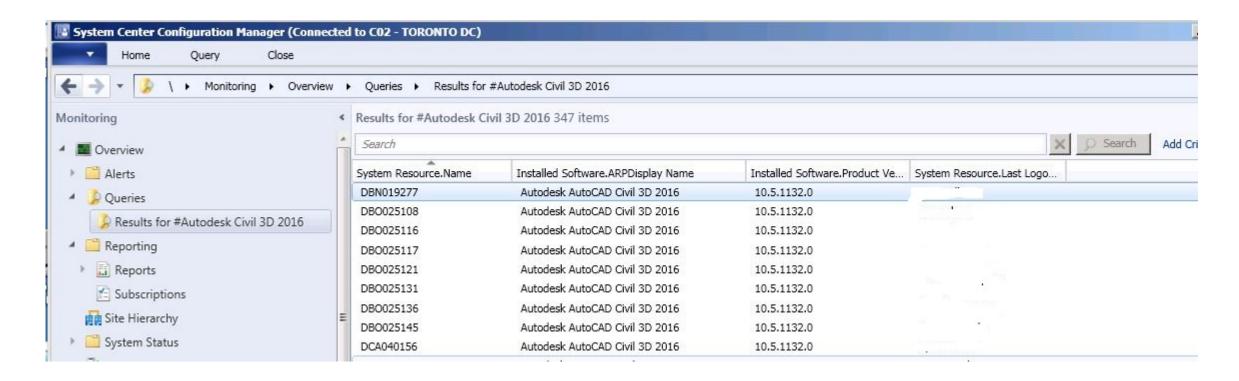
Run reports and queries



Reports can be run from: Monitoring – Overview -Reporting- reports Reports can be customized



Run reports and queries



Queries can be run from: Monitoring – Overview – Queries

Queries are very customizable.





SCCM other advantages

- Deploy from distribution points
- Run reports and queries
- Monitoring
- Alerts
- Compliance
- Deploy other windows software



The end





How did I do?

- Your class feedback is critical. Fill out a class survey now.
- Use the AU mobile app or fill out a class survey online.
- Give feedback after each session.
- AU speakers will get feedback in real-time.
- Your feedback results in better classes and a better AU experience.









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