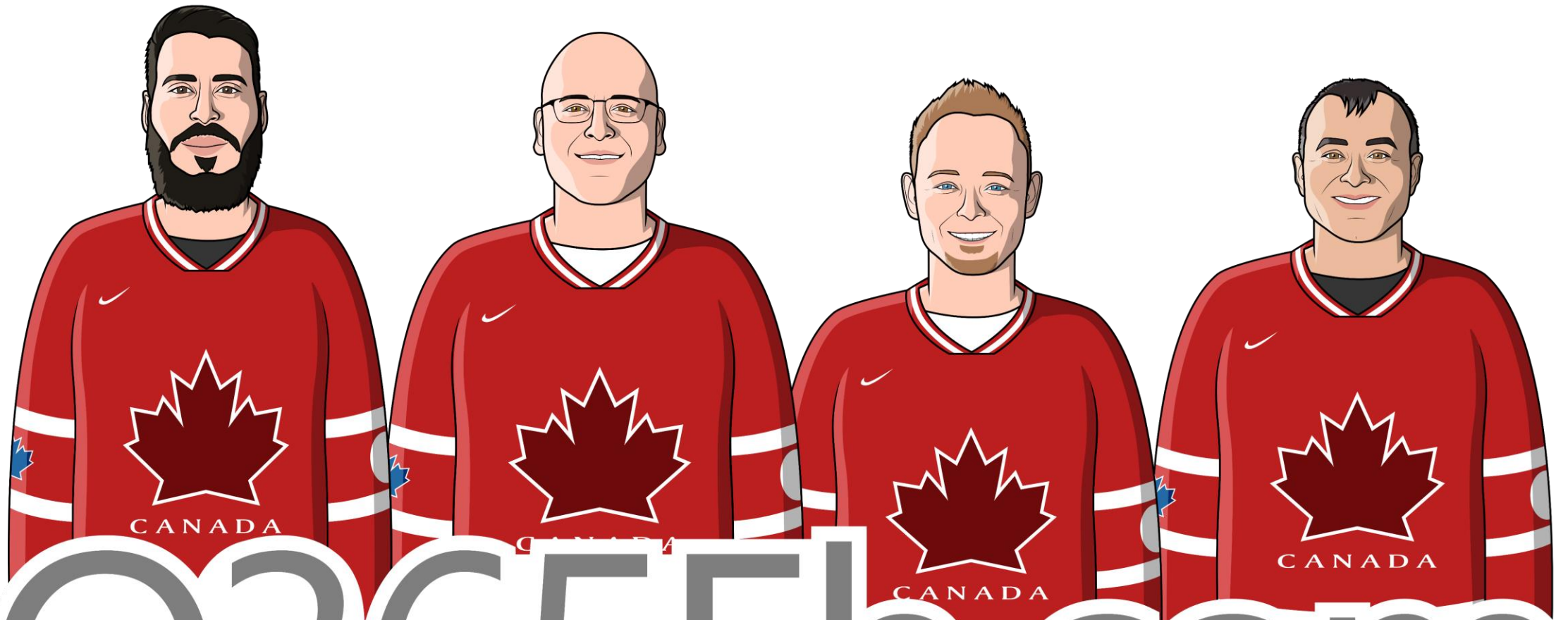




Notes from the field

Intune managed Microsoft Teams Rooms (MTR) on Windows
&
Microsoft Teams Pro Management Portal (PMP)

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0365Eh.com

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TeamsBoss.com

- ▶ Number Inventory (CP, OC, DR)
- ▶ Moves, Adds, Changes & Deletes
- ▶ Teams Policy Profiles
- ▶ Bulk Management
- ▶ Call Logs & Detail Records Collector
- ▶ Visual Call Flows (AA, CQ, User)
- ▶ Workflow API

Projects

- ▶ MTR Resource Account Management (Workflow)
- ▶ MTR Usage Reporting
- ▶ Teams Emergency Call Email/SMS Notifications
- ▶ AA & CQ Delegated Management
- ▶ Webex Teams/Spaces to MS Teams Migrator
- ▶ SBC-as-a-Service
- ▶ Enterprise, Carrier & MSP Custom Solutions

Moving MTRW to Intune

Scenario: Enterprise customer struggling with legacy device management, looking to move towards cloud first, remove reliance on Active Directory and On-Premises services.

Investigation

- ▶ Tools being used (AD, SCCM, Vendor Tools, RDP, Scripts)
 - ▶ GPO Result
 - ▶ SCCM Task Lists
 - ▶ Startup/Shutdown/Login/Logoff Scripts
 - ▶ SkypeSettings.xml
 - ▶ Installed Programs
 - ▶ Firewall Rules
- ▶ Operational Workflow
 - ▶ Provisioning
 - ▶ Management
 - ▶ Maintenance
 - ▶ Support Tickets/Issues



Breakdown

- ▶ Imaging
- ▶ Enrollment
- ▶ MTR Pro Management Agent
- ▶ Local Administrators
- ▶ Remote Desktop
- ▶ Language
- ▶ SkypeSettings.xml

Breakdown: Imaging

- ▶ Vendor vs. [CreateSrsMedia.ps1](#)
- ▶ Auto updating typically ~48 hours
- ▶ Windows Configuration Designer
 - ▶ Package sets computer name
 - ▶ Bulk Token Expiry 180 days
 - ▶ Package transport (USB Key)

Breakdown: Enrollment

- ▶ Hybrid to AAD Join
 - ▶ Delete from AD & Sync
 - ▶ Reimage (capture license key!)

```
(Get-WmiObject -query 'select * from SoftwareLicensingService').OA3xOriginalProductKey
```
 - ▶ AAD Join
- ▶ Intune & AAD Devices
 - ▶ Scope Tags (RBAC)
 - ▶ Corporate-Owned (hardware hash import into Devices | Windows | Windows Enrollment | Windows Autopilot devices)

```
Install-Script -Name Get-WindowsAutopilotInfo  
Get-WindowsAutopilotInfo -GroupTag <grouptag> [-OutFile] [-Online] [-AssignedComputerName]
```
 - ▶ Group Tags
 - ▶ Group Membership

```
(device.devicePhysicalIds -any _ -eq "[OrderID]:<grouptag>")
```
 - ▶ Shared Mode (clear primary user)

Breakdown: Pro Management Agent

- ▶ <https://aka.ms/serviceportalagentmsi>

Home > Apps | Windows > Windows | Windows apps > Microsoft Managed Rooms | Properties >

Edit application

Windows MSI line-of-business app

App information Review + save

Select file to update * ⓘ ManagedRoomsInstaller.msi

Name * ⓘ

Description * ⓘ

[Edit Description](#)

Publisher * ⓘ

App install context ⓘ User Device

Ignore app version ⓘ Yes No

Command-line arguments

Category ⓘ

Show this as a featured app in the Company Portal ⓘ Yes No

Breakdown: Local Administrators

[Home](#) > [Endpoint security | Account protection](#) > [MTR - Local Administrators](#) >




Edit profile - MTR - Local Administrators ...

Settings catalog

1 Configuration settings **2** Review + save

^ Local Users And Groups

+ Add  Delete

<input type="checkbox"/> Local group <small>i</small>	Group and user action <small>i</small>	User selection type <small>i</small>	Selected users/groups
<input type="checkbox"/> Administrators 	Add (Update) 	Users/Groups 	Users selected: 1

Breakdown: Remote Desktop

Home > Devices | Configuration profiles >

Endpoint protection

Windows 10 and later

store ⓘ

Global port Microsoft Defender Firewall rules from the local store ⓘ Not configured

Microsoft Defender Firewall rules from the local store ⓘ Not configured

Ipssec rules from the local store ⓘ Not configured

Firewall rules

Create Microsoft Defender Firewall rules. One Endpoint Protection profile may contain up to 150 rules.

[Add](#)

RULE ↑↓

RDP via Intune ...

- Microsoft Defender SmartScreen
- Windows Encryption
- Microsoft Defender Exploit Guard
- Microsoft Defender Application Control
- Microsoft Defender Credential Guard
- Microsoft Defender Security Center
- Local device security options
- Xbox services
- User Rights

[Previous](#) [Next](#)

Edit Rule

Name * ⓘ RDP via Intune

Description ⓘ Enter a description...

Direction ⓘ Inbound

Action ⓘ Allow

Network type ⓘ 3 selected

Application settings

Application(s) targeted with this rule

Application(s) ⓘ All

IP address settings

Specify the local and remote addresses to which this rule applies

Local addresses ⓘ Any address

Remote addresses ⓘ Any address

Port and protocol settings

Specify the local and remote ports to which this rule applies

Protocol ⓘ TCP

Local ports ⓘ Specified ports

Ports * 3389

Remote ports ⓘ All ports

[Save](#) [Cancel](#)

Breakdown: Remote Desktop cont.

Home > Devices | Configuration profiles > MTR - Allow RDP | Properties >

Edit Profile

Administrative Templates


1 Configuration settings 2 Review + save

- All Settings
- Computer Configuration
- User Configuration

All Settings

All Settings

allow users to connect

Setting name	↑↓	State	↑↓	Setting type	↑↓	Path	↑↓
 Allow users to connect remotely by using Remote Desktop Services		Enabled		Device		\Windows Components\Remote Desktop Services\Remote Desktop Session Host\Connections	

Sign in with AzureAD\UPN and add to RDP file:
enablecredsspport:i:0
authentication level:i:2

Breakdown: Language

The screenshot shows the Windows PowerShell script properties for 'MTR - Set French'. The breadcrumb path is 'Home > Devices | Windows > Windows | PowerShell scripts > MTR - Set French'. The title is 'MTR - Set French | Properties' with a subtitle 'Windows 10 and later'. There is a search bar and a left navigation pane with 'Overview', 'Manage', 'Properties' (selected), and 'Monitor'. The main content area shows 'Basics Edit' and 'Script settings Edit'. The 'Script settings' table is as follows:

Property	Value
Name	MTR - Set French
Description	-
PowerShell script	Set-French.ps1
Run this script using the logged on credentials	No
Enforce script signature check	No
Run script in 64 bit PowerShell Host	Yes

Set-French.ps1 (reboot required)

Install-Language fr-CA -CopyToSettings

Set-SystemPreferredUILanguage fr-CA

Set-WinSystemLocale fr-CA

c:\Rigel\x64\scripts\provisioning\scriptlaunch.ps1 ApplyCurrentRegionAndLanguage.ps1

Breakdown: SkypeSettings.xml

- ▶ Custom background: [ThemingTemplateMicrosoftTeamsRooms_v2.1.psd](#)
- ▶ SkypeSettings.xml : <https://learn.microsoft.com/en-us/microsoftteams/rooms/xml-config-file>

```
<SkypeSettings>
  <Theming>
    <ThemeName>Custom</ThemeName>
    <CustomThemeImageUrl>wallpaper.jpg</CustomThemeImageUrl>
    <CustomThemeColor>
      <RedComponent>1</RedComponent>
      <GreenComponent>120</GreenComponent>
      <BlueComponent>199</BlueComponent>
    </CustomThemeColor>
  </Theming>
</SkypeSettings>
```

Breakdown: Package SkypeSettings.xml

- ▶ wallpaper.jpg & SkypeSettings.xml
- ▶ Deploy.bat

```
mkdir "C:\Users\Skype\AppData\Local\Packages\Microsoft.SkypeRoomSystem_8wekyb3d8bbwe\LocalState\"
```

```
xcopy ".\SkypeSettings.xml" "C:\Users\Skype\AppData\Local\Packages\Microsoft.SkypeRoomSystem_8wekyb3d8bbwe\LocalState\" /E /Y
```

```
xcopy ".\wallpaper.jpg" "C:\Users\Skype\AppData\Local\Packages\Microsoft.SkypeRoomSystem_8wekyb3d8bbwe\LocalState\" /E /Y
```

- ▶ Deploy – Remove.bat

```
Del C:\Users\Skype\AppData\Local\Packages\Microsoft.SkypeRoomSystem_8wekyb3d8bbwe\LocalState\SkypeSettings.xml
```

```
Del C:\Users\Skype\AppData\Local\Packages\Microsoft.SkypeRoomSystem_8wekyb3d8bbwe\LocalState\wallpaper.jpg
```

- ▶ Microsoft Win32 Content Prep Tool: <https://github.com/Microsoft/Microsoft-Win32-Content-Prep-Tool>

```
IntuneWinAppUtil.exe -c "C:\MTRCustomBackground" -s Deploy.bat -o c:\output
```

Breakdown: Package SkypeSettings.xml cont.

Home > Apps | Windows > Windows | Windows apps > MTR - Custom Background | Properties >

Edit application ...

Windows app (Win32)

App information Program Requirements Detection rules Review + save

Select file to update * ⓘ

Deploy.intunewin

Name * ⓘ

MTR - Custom Background

App information Program Requirements Detection rules Review + save

Specify the commands to install and uninstall this app:

Install command * ⓘ

Deploy.bat

Uninstall command * ⓘ

Deploy - Remove.bat

Install behavior ⓘ

System User

Device restart behavior ⓘ

No specific action

Detection rule

Create a rule that indicates the presence of the app.

Rule type ⓘ

File

Path * ⓘ

C:\Users\Skype\AppData\Local\Packages\Microsoft.SkypeR...

File or folder * ⓘ

wallpaper.jpg

Detection method * ⓘ

File or folder exists

Associated with a 32-bit app on 64-bit clients ⓘ

Yes

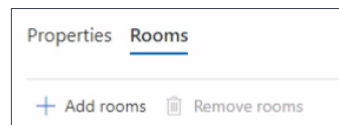
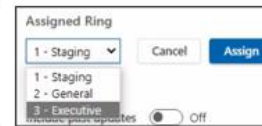
No

Operationalize with PMP

Scenario: Moving to Microsoft Teams Room Pro licensing and maximize value.

Workflow

- ▶ Setup
 - ▶ Rings
 - ▶ Groups
 - ▶ Notifications / ServiceNow
 - ▶ Roles
- ▶ Add Room(s) – All manual steps...
 - ▶ MTR Pro Management Agent
 - ▶ Enroll Room
 - ▶ Assign Ring
 - ▶ Group Assignment



Update Rings

- **Deferment Period:** Once an update starts with the first ring, the deferment period is the delay in days before the update is initiated on this ring.
- **Rollout Duration:** Once the update commences on this ring, this is the time to deploy in this ring. For example, if the duration is 5 days, it will deploy over 5 days to the rooms in this ring once the update starts on this ring.
- **Test Period:** The number of days to test/validate the update in a ring once applied to the ring. The test period starts after the rollout is completed, and once complete, the update moves to the next ring.
- **Completion Time:** The “Completion time” column indicates the total number of days (rollout duration + test period) for this ring to complete.

Ring Name	Description	Deferment Period	Rollout Duration	Test Period	Completion Time
Staging	Test environment	0 Days	2 Days	5 Days	7 Days
General	All devices environment	7 Days	14 Days	5 Days	26 Days
Executive	Executive devices	26 Days	28 Days	5 Days	59 Days

Note: Updates cannot exceed 60 days to complete all rings.

Automate AAD Join: <https://aadinternals.com/post/bprt>

```
Get-AADIntAccessTokenForAADGraph -Resource urn:ms-drs:enterpriseregistration.windows.net -SaveToCache  
Join-AADIntDeviceToAzureAD -DeviceName "My computer"
```

Automate Intune Shared Mode: <https://jannikreinhard.com/2021/10/09/remove-the-primary-user-from-intune-devices-with-powershell-switch-to-shared-device/>

```
Get-Win10IntuneManagedDevices  
Delete-IntuneDevicePrimaryUser
```



Thanks!

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