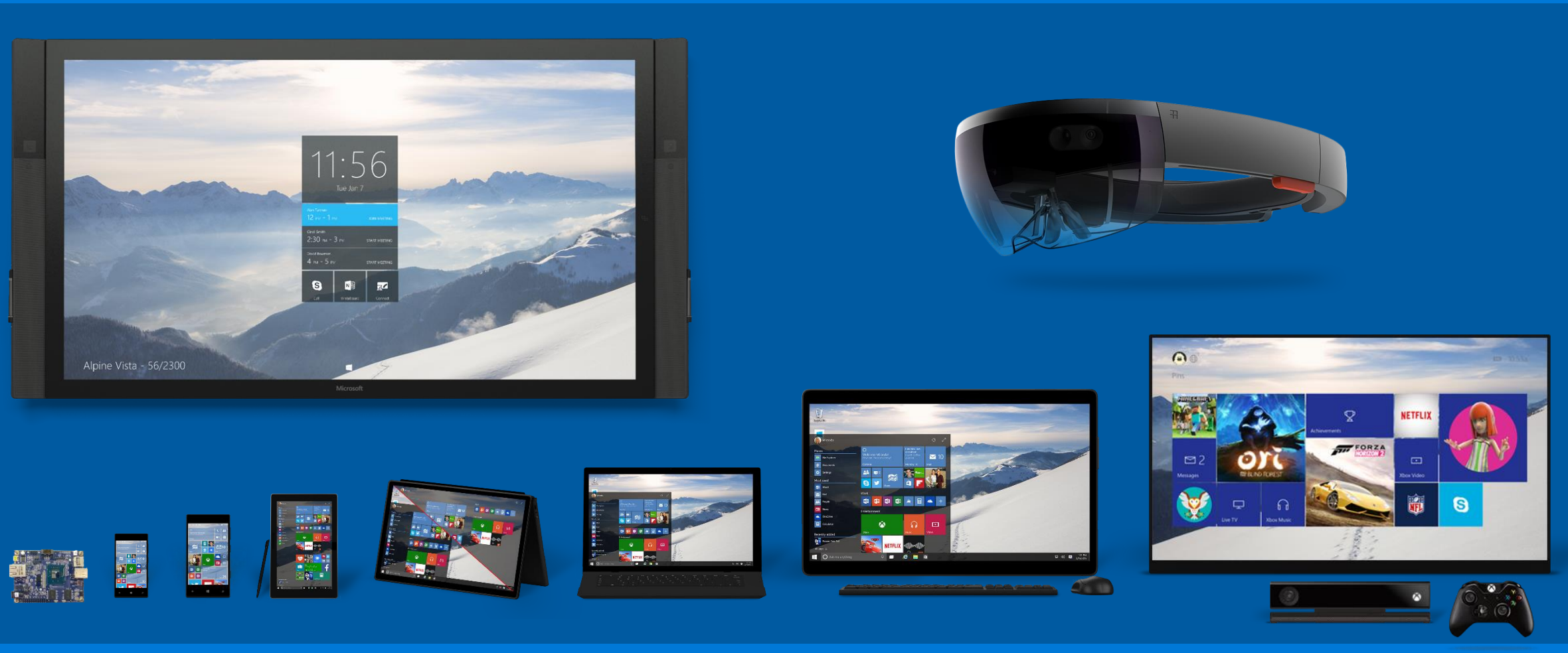
Windows 10

Windows 10 Enterprise

Steven Lau
Account Technology Strategist
Microsoft Hong Kong Limited

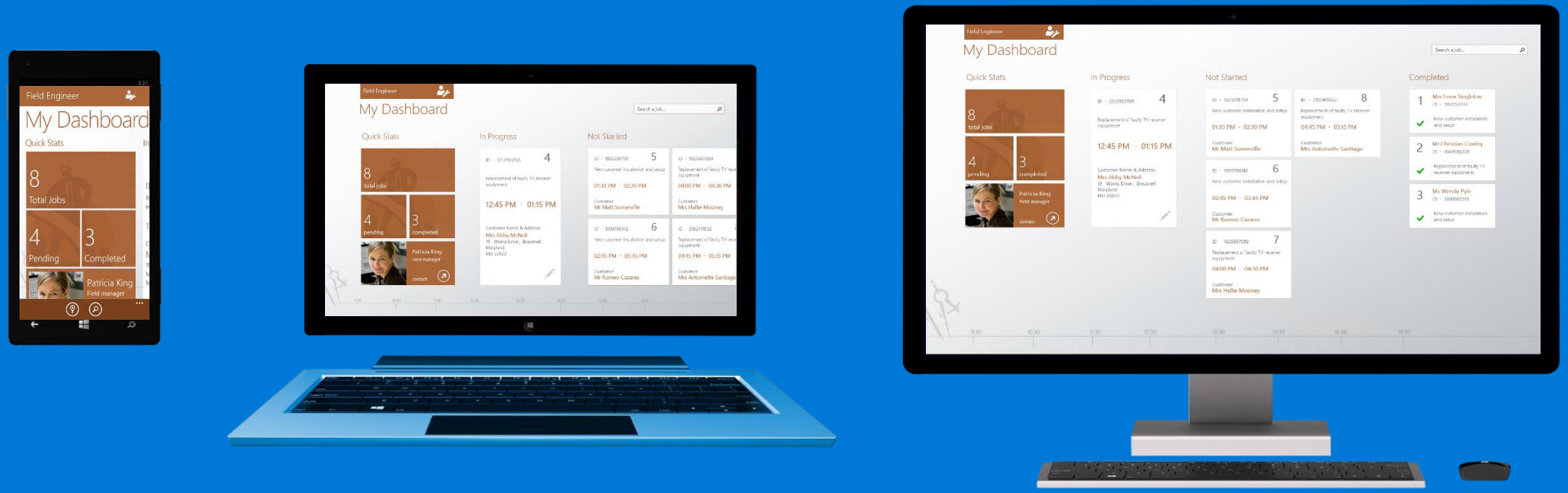
Microsoft

Windows 10



One converged platform

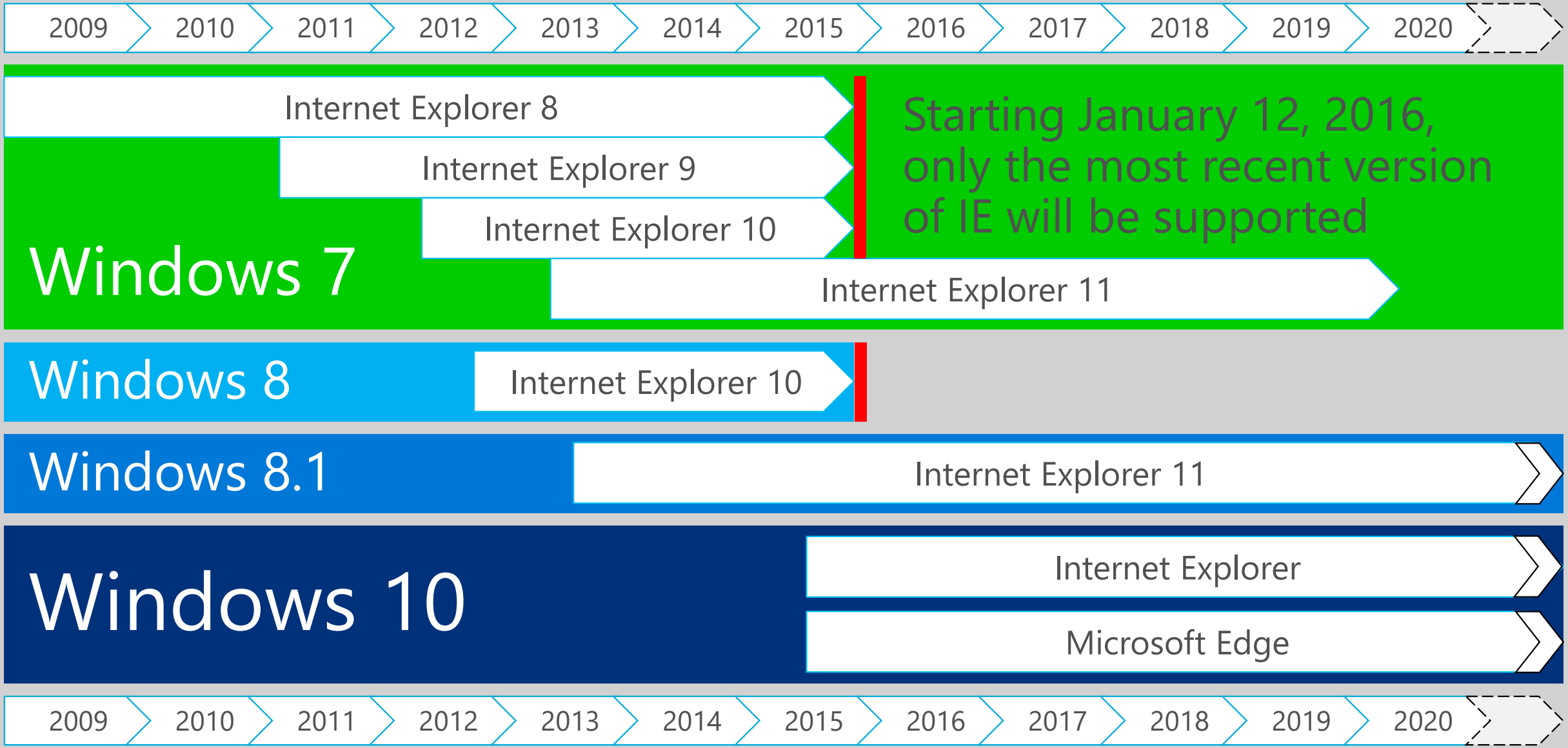
Universal apps



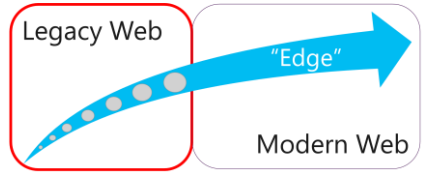
Desktop features placemat

	Home	Pro	Enterprise
Existing Differentiated Features in Win7 /Win8.1			
Domain Join and Group Policy Management		✓	✓
Existing Win7 / Win 8.1 Enterprise features			✓
Windows 10: Management and Deployment			
Side-loading of LOB apps	✓	✓	✓
MDM Enablement	✓	✓	✓
Azure AD Join		✓	✓
The Business Store		✓	✓
Private Catalog		✓	✓
Granular UX Control and Lockdown			✓
Windows 10: Security			
Microsoft Passport	✓	✓	✓
Enterprise Data Protection		✓	✓
Hardware–based Hyper-V isolation (VSM) scenarios			✓
Device Guard			✓
Windows 10: Windows as a Service, Support & Entitlements			
Windows Update for Business & Current Branch for Business		✓	✓
Access to Long Term Servicing Branch			✓

Windows Browser Roadmap



Enterprise Mode Eases Upgrades



Provides backward compatibility for web apps designed for older versions of Internet Explorer

Supports IE10/IE9/IE8/IE7/IE6 modes

Works with Windows 7, Windows 8.1, Windows 10

Reduces web app testing and remediation

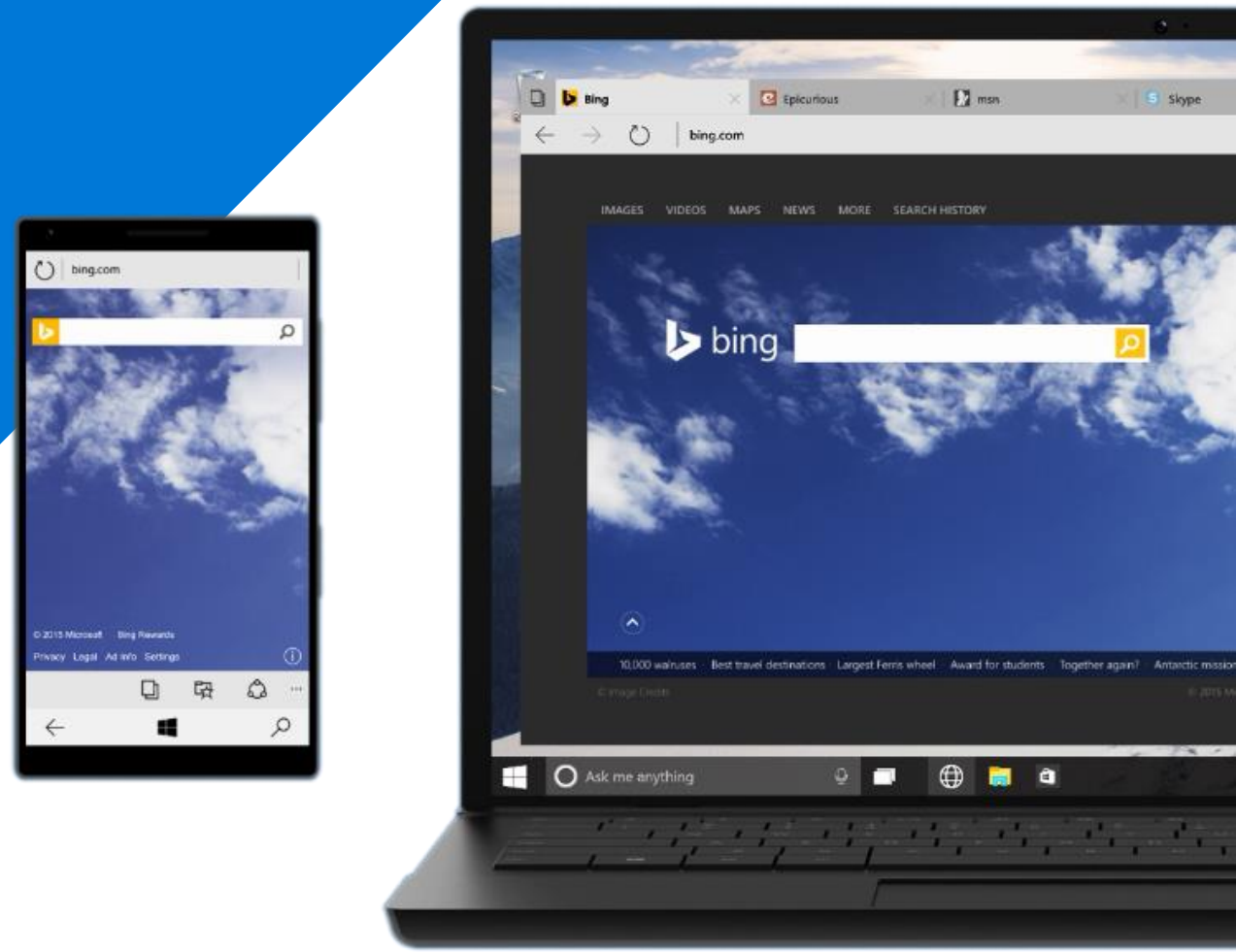
Microsoft Edge – The New Browser

Built for the modern web

Only browser with built-in note-taking and sharing

Best browser for reading, optimized for your device and distraction-free

Only browser with Cortana, to get more done on the web



Features not supported in Microsoft Edge

- Active X Control
- Silverlight
- Java
- VBScript

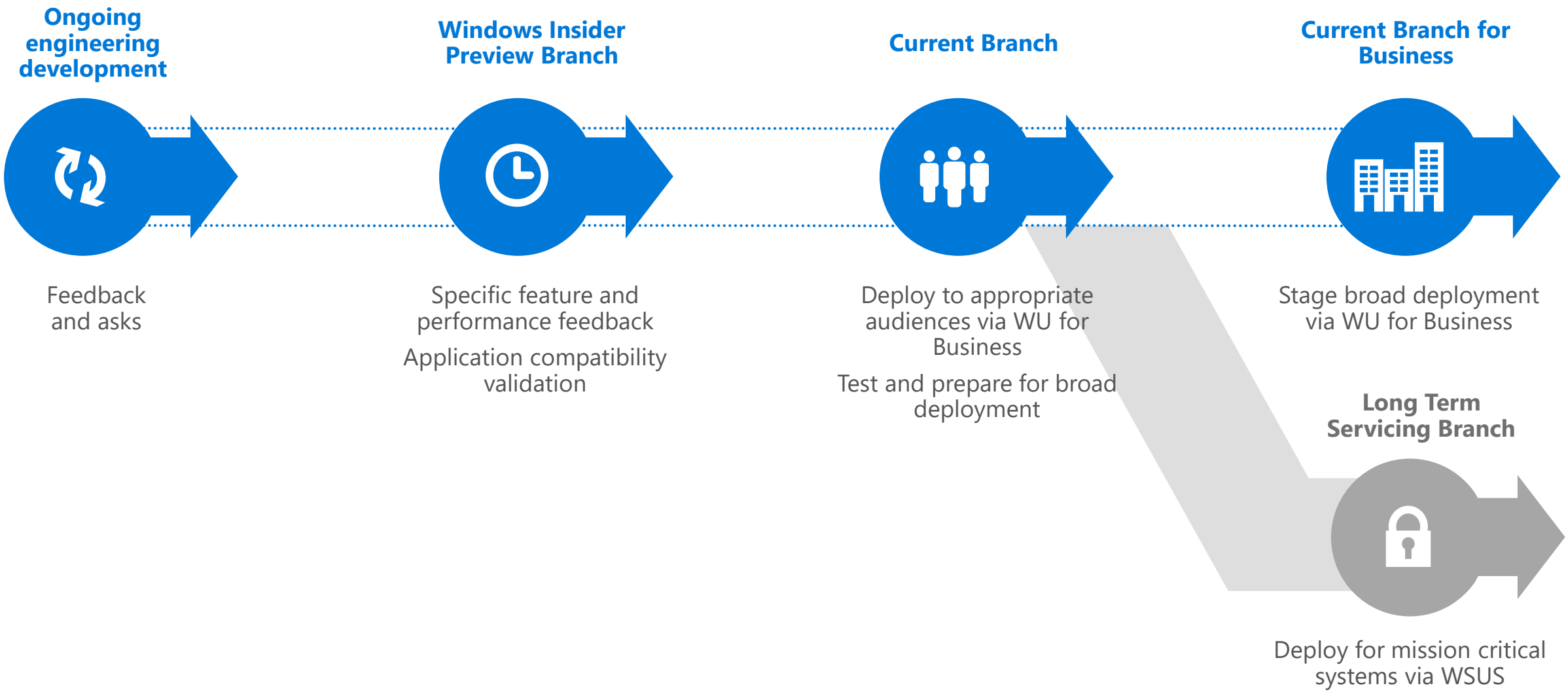
- *Replaced by HTML5 and JavaScript*
- *Adobe Flash remain supported*

“Get Current” Upgrade Plan

Segment	Current OS	Upgrade To	RTW	RTW + 1 year
 Consumer	Windows 8/8.1 Windows 7 HB/HP/Ult	Windows 10 Home	Free*	Paid FPP / VL Upgrades
 Commercial	Windows 8/8.1 Pro Windows 7 Pro	Windows 10 Pro		

* OEM/Retail SKUs will upgrade through Windows Update. VL SKUs will upgrade through Windows Update, key will become the Store key, mirroring the consumer scenario.

Customer journey



Flexible Enterprise Adoption Options

Capabilities	Current Branch for Business (CBB)	Long Term Servicing Branch (LTSB)
Recommended Enterprise use scenario	General information worker systems; salesforce, etc.	Special systems: Air Traffic Control; Hospital ER, etc.
Value of the latest features as they are released	✓	
Several months to consume feature updates	✓	
Modern and compatibility web browsing choices	✓	Compatibility
Support for Universal Office and 1st party Universal apps	✓	
Support for Win 32 Office	✓	✓
Ongoing security updates for the lifetime of the branch	✓	✓
Config. Manager 2012 support	Upgrade to Config Manager vNext	✓
No feature upgrade required to stay supported		✓

Windows 10 Enterprise with Software Assurance

Exclusive Enterprise features

- Granular UX control and lockdown
- Enterprise Credential Protection
- Telemetry control via GP/MDM
- Device Guard
- DirectAccess
- Windows to Go
- AppLocker
- BranchCache

Virtualize, Manage, Restore with MDOP

- Microsoft User Experience Virtualization (UE-V)
- Microsoft Application Virtualization (App-V)
- Microsoft BitLocker Administration & Monitoring (MBAM)
- Microsoft Advanced Group Policy Management (AGPM)
- Microsoft Diagnostics and Recovery Toolset (DaRT)

Now included with SA

Flexibility in how you deploy and use Windows

- Access to Long Term Servicing Branch (10 years of support)

Choice of and ability to mix:

- Current Branch
- Current Branch for Business
- Long Term Servicing Branch

Version rights, foundational benefits and support

- Version rights for future and past LTSBs
- Windows To Go Rights
- Virtualization rights
- 24x7 and extended hotfix support
- Training vouchers and e-learning
- Technet benefits

Access to ongoing exclusive Enterprise features

New

Windows 10: Enterprise Data Protection

Microsoft

DATA PROTECTON IN A CLOUD & MOBILE WORLD

REQUIRES

Protection everywhere (at rest, in transit, across devices, storage location…*everywhere*)

Enable wipe and other management fundamentals

Supported by all the apps you use, fully integrated experience

INTRODUCING

Enterprise Data Protection

A DIFFERENT APPROACH

Protects data at rest, and wherever it rests or may roam to

Seamless integration into the platform, No mode switching and use any app

Corporate vs personal data identifiable wherever it rests on the device

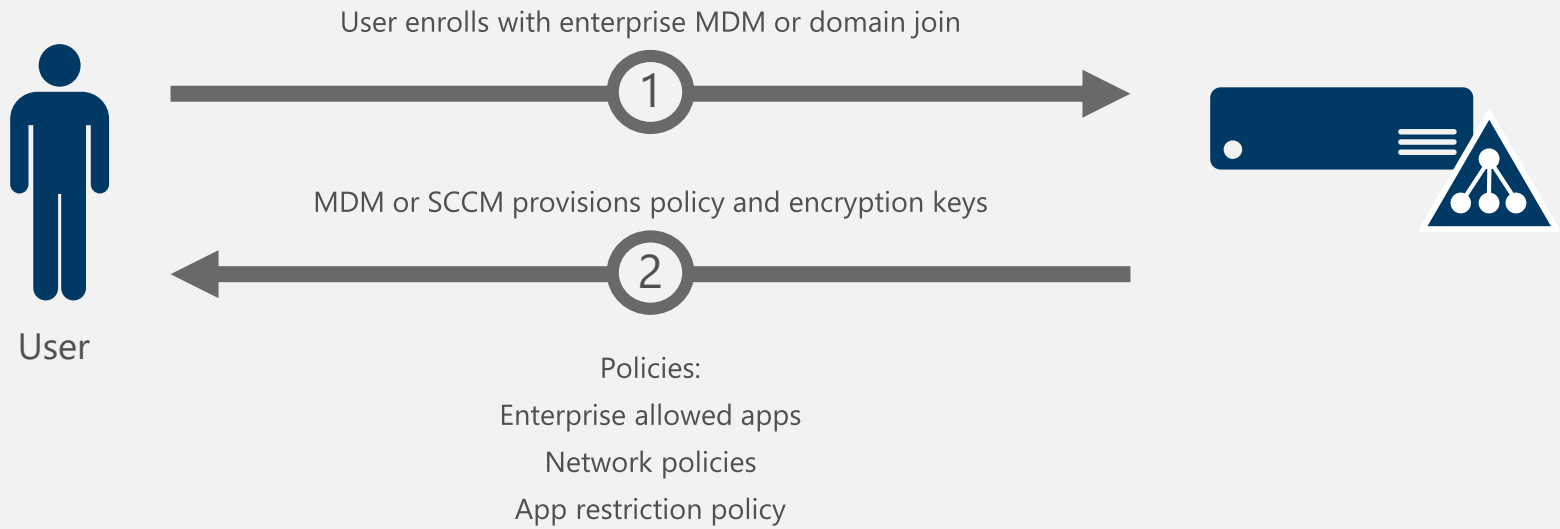
Prevents unauthorized apps from accessing business data

IT has fully control of keys and data and can remote wipe data on demand

Common experience across all Windows devices with cross platform support

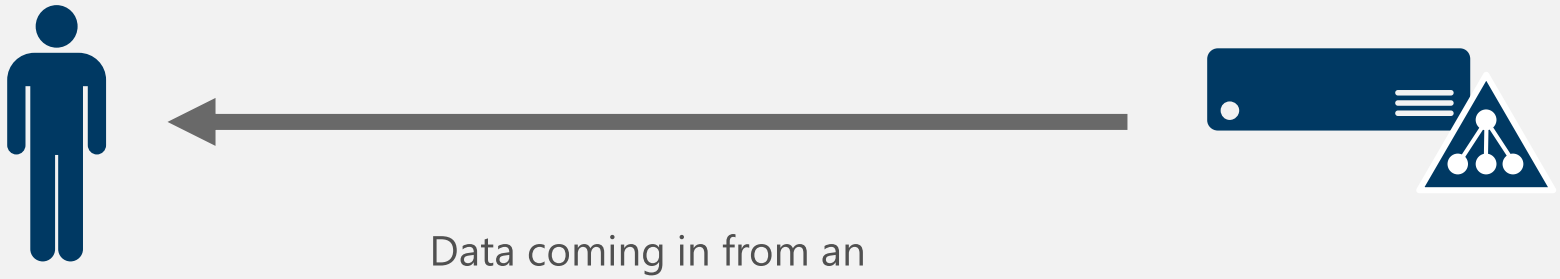
Enterprise Data Protection

PROVISIONING: KEYS AND POLICIES



Enterprise Data Protection

DATA INGRESS



Data coming in from an enterprise network location is encrypted on device

Examples: OneDrive For Business, Corporate Exchange mail, file, etc.

Enterprise Data Protection

DATA GENESIS

User

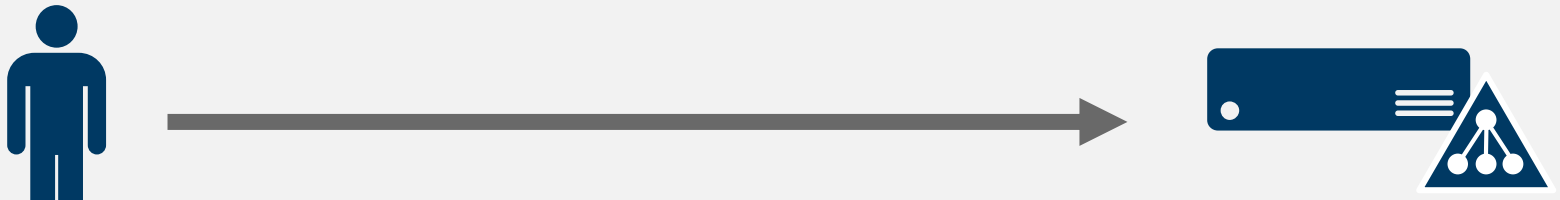
Users can save to enterprise folders, encryption will be automatically applies.

Users are given an option to save data as personal or corporate

IT admin can configure which apps should automatically protect data

Enterprise Data Protection

DATA EGRESS



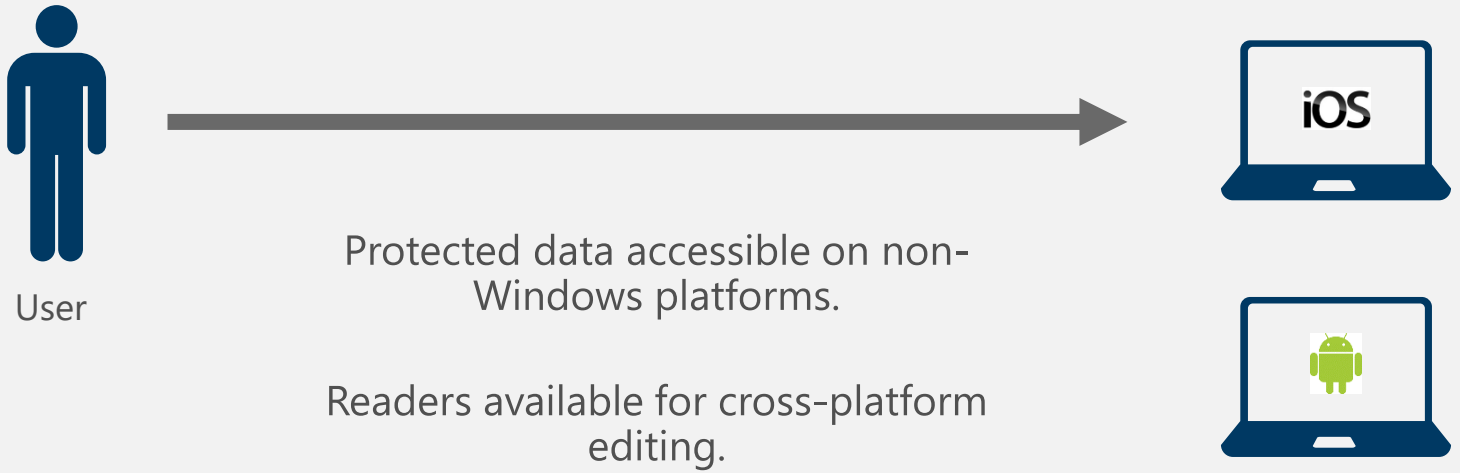
Enlightened applications will be able to maintain protection on egress

Policy based app restrictions can block app access to data, meaning it can't egress

Network policy enables the blocking of data moving to non-corporate locations

Enterprise Data Protection

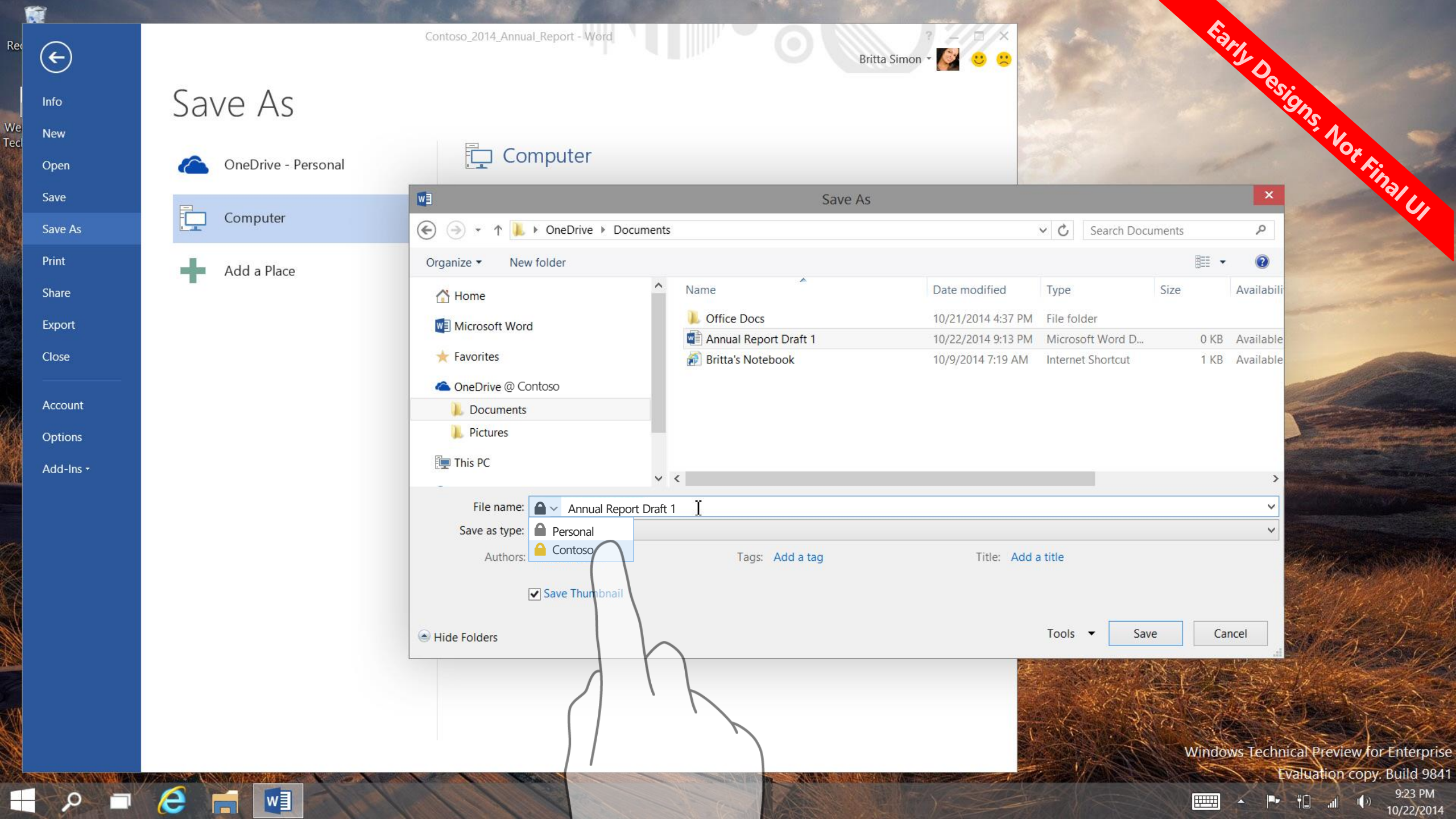
CROSS PLATFORM DATA SHARING



Protected data accessible on non-Windows platforms.

Readers available for cross-platform editing.

Public API for 3rd party adoption.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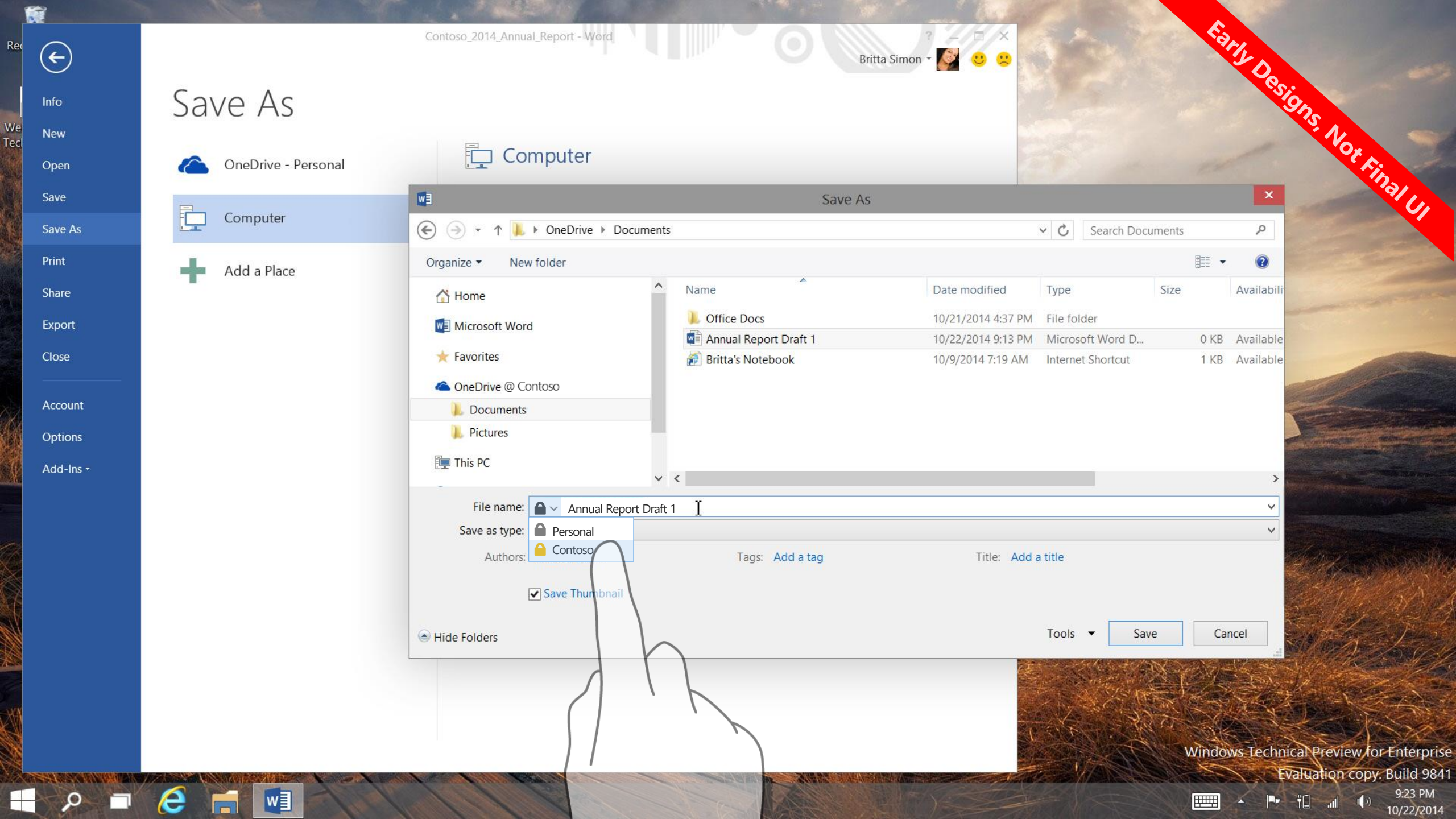
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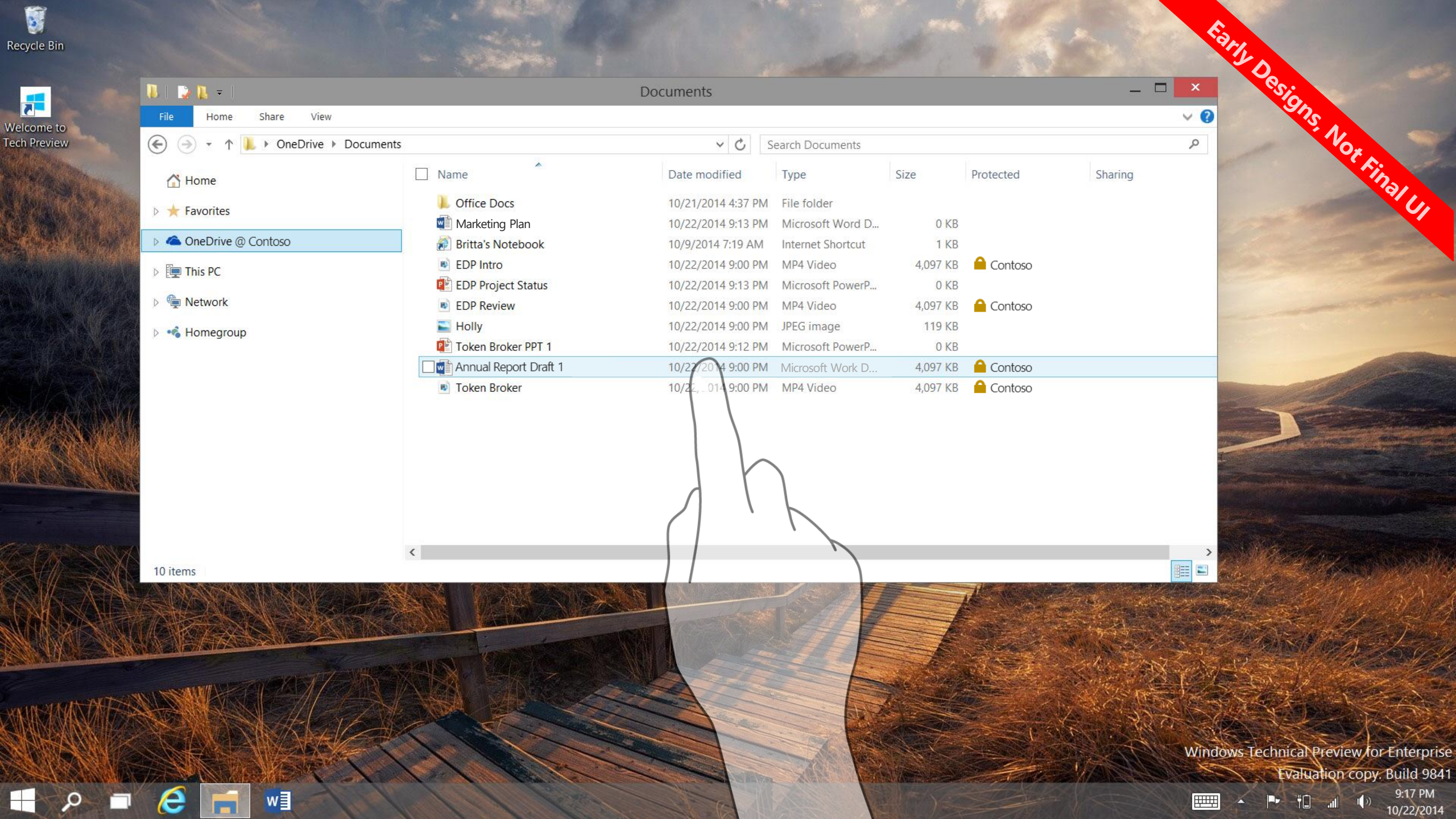
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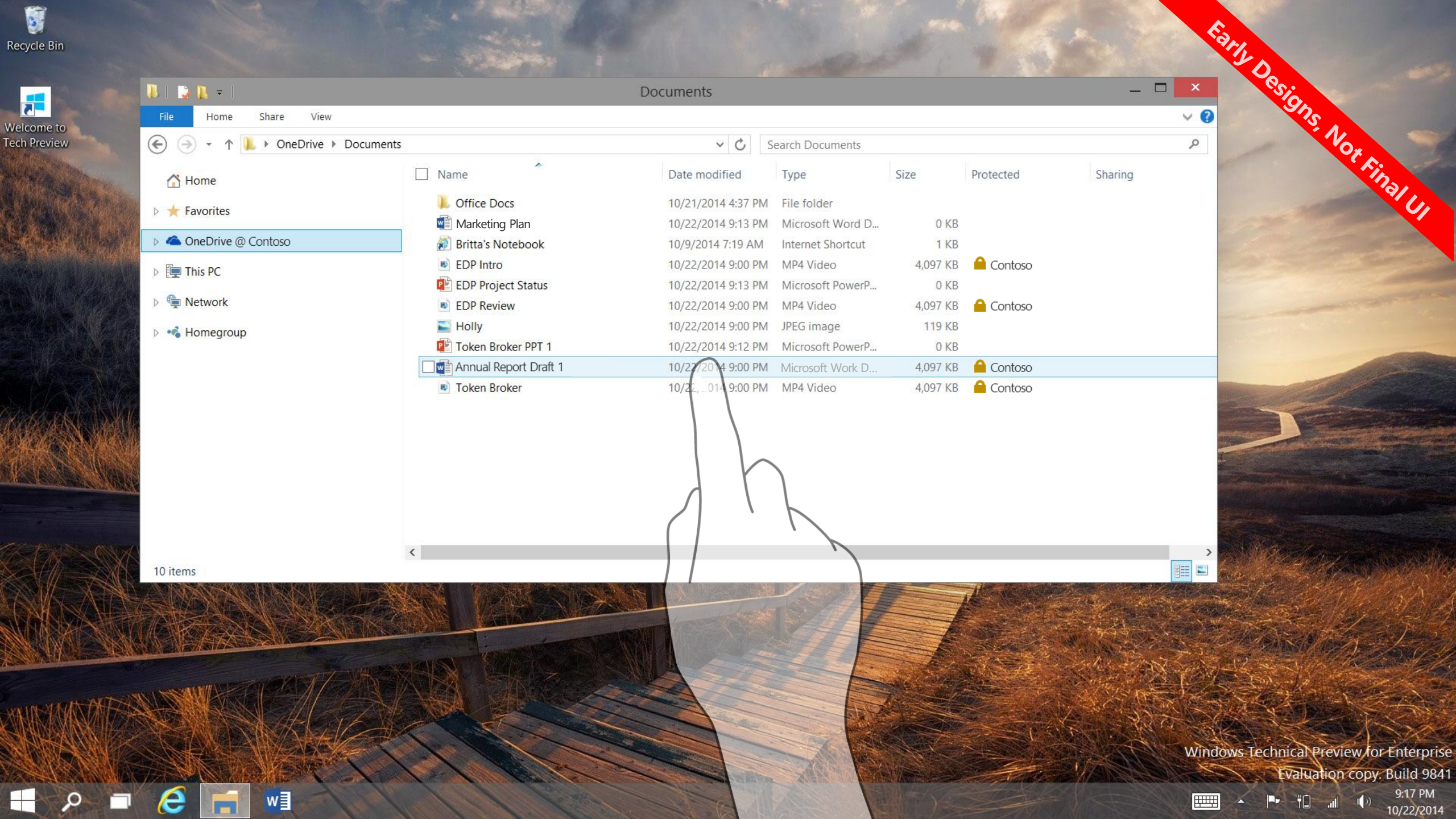
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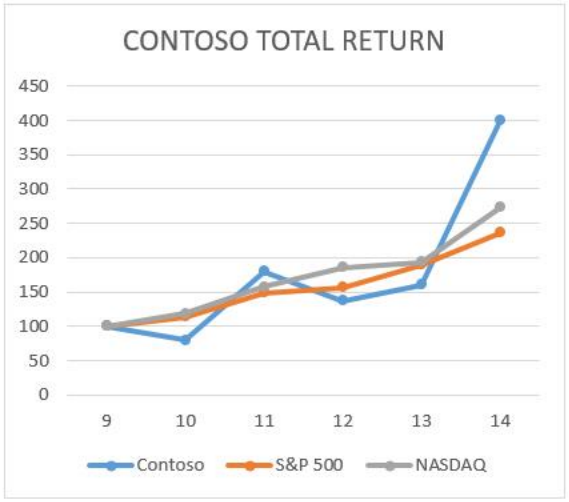

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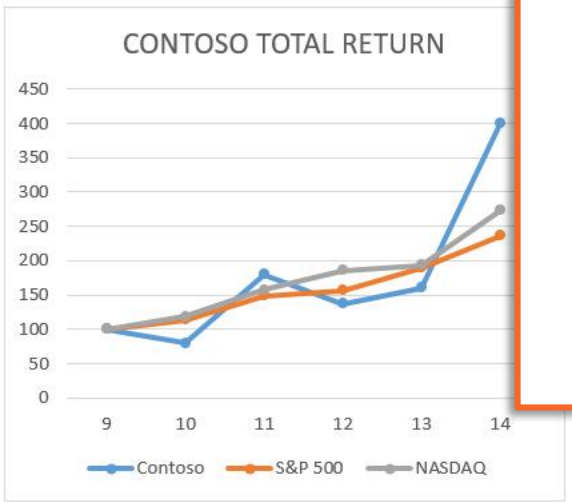

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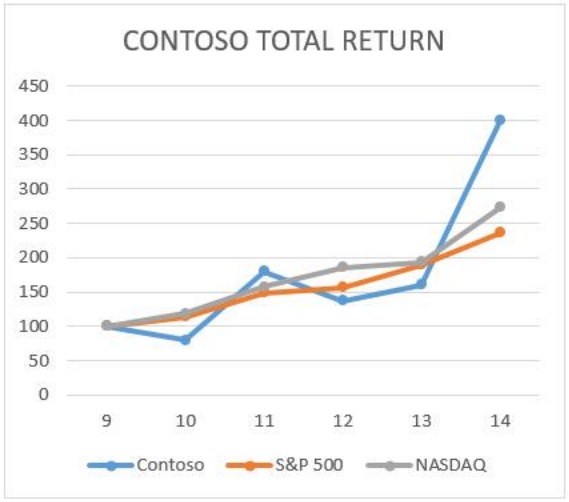

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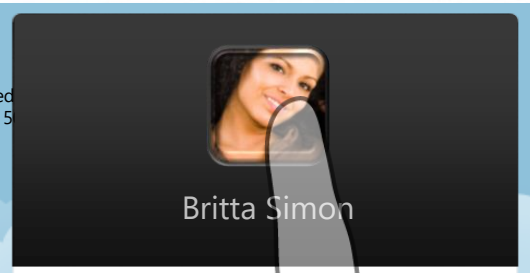

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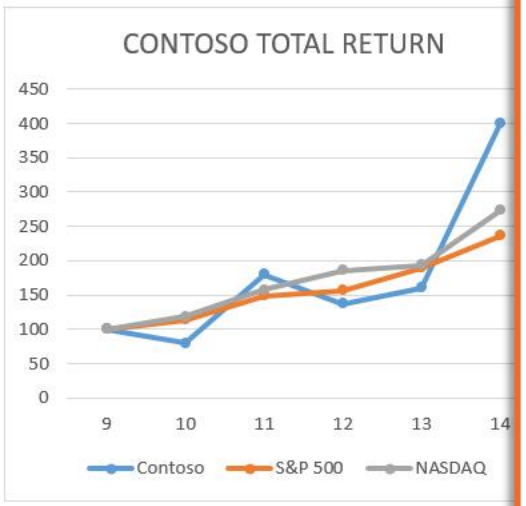

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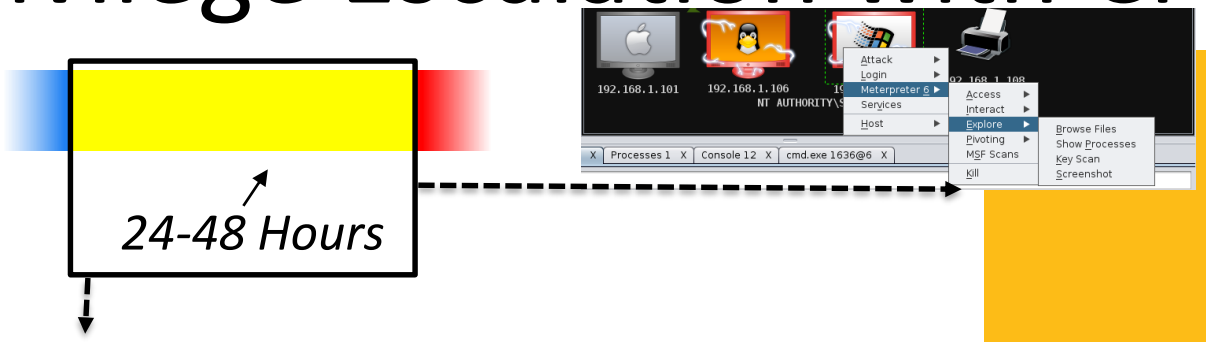
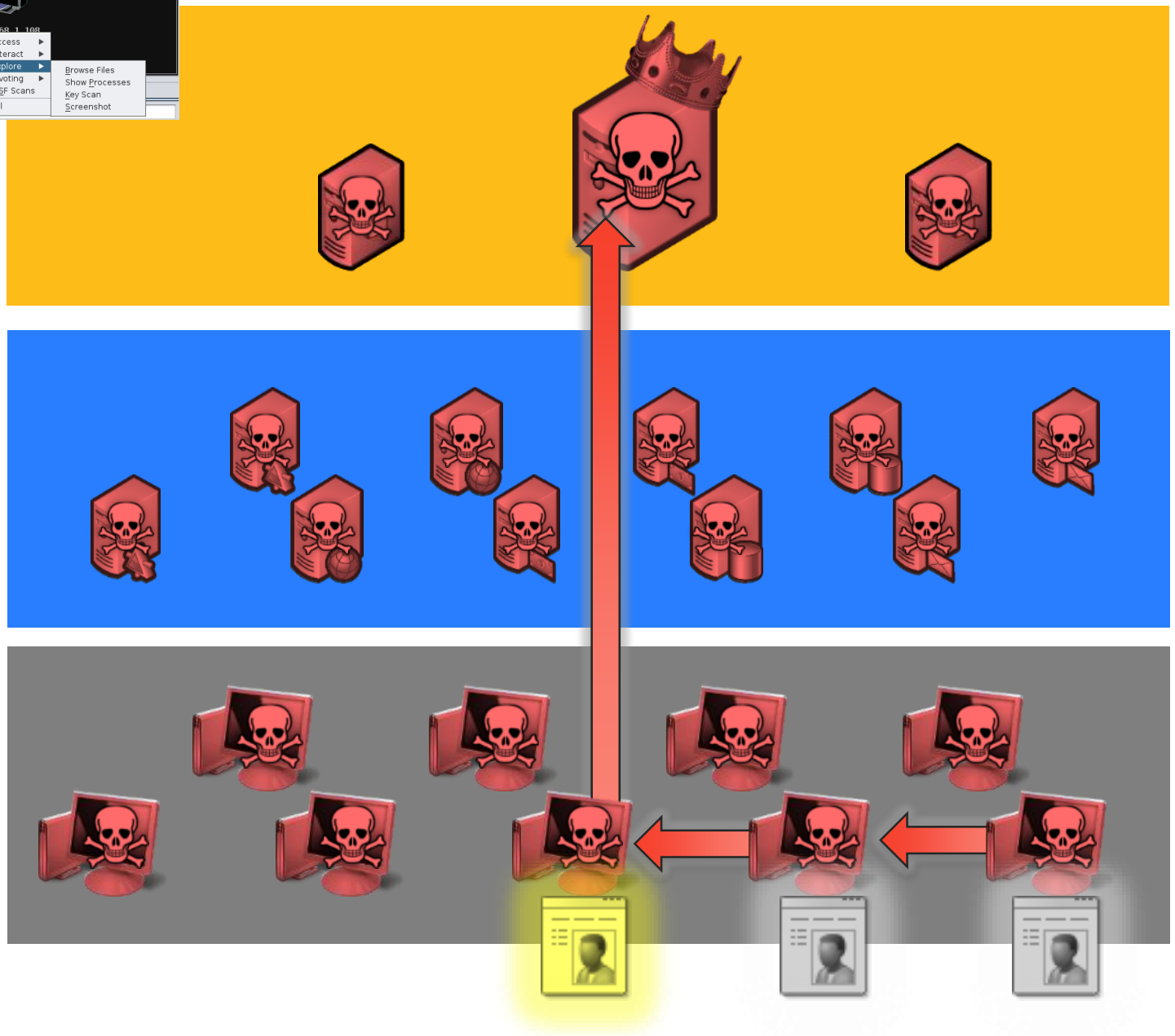
Windows 10 – Credential Guard

Privilege Escalation with Credential Theft (Typical)

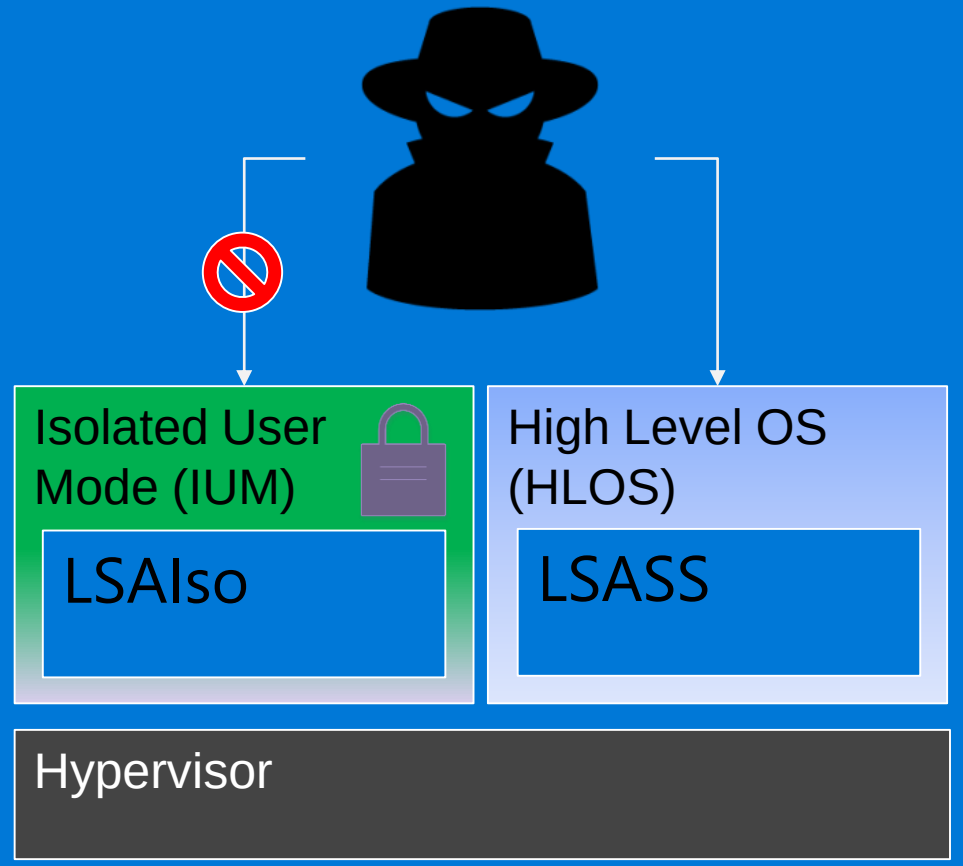


1. Get in with Phishing Attack (or other)
2. Steal Credentials
3. Compromise more hosts & credentials (searching for Domain Admin)
4. Get Domain Admin credentials
5. Execute Attacker Mission (steal data, destroy systems, etc.)



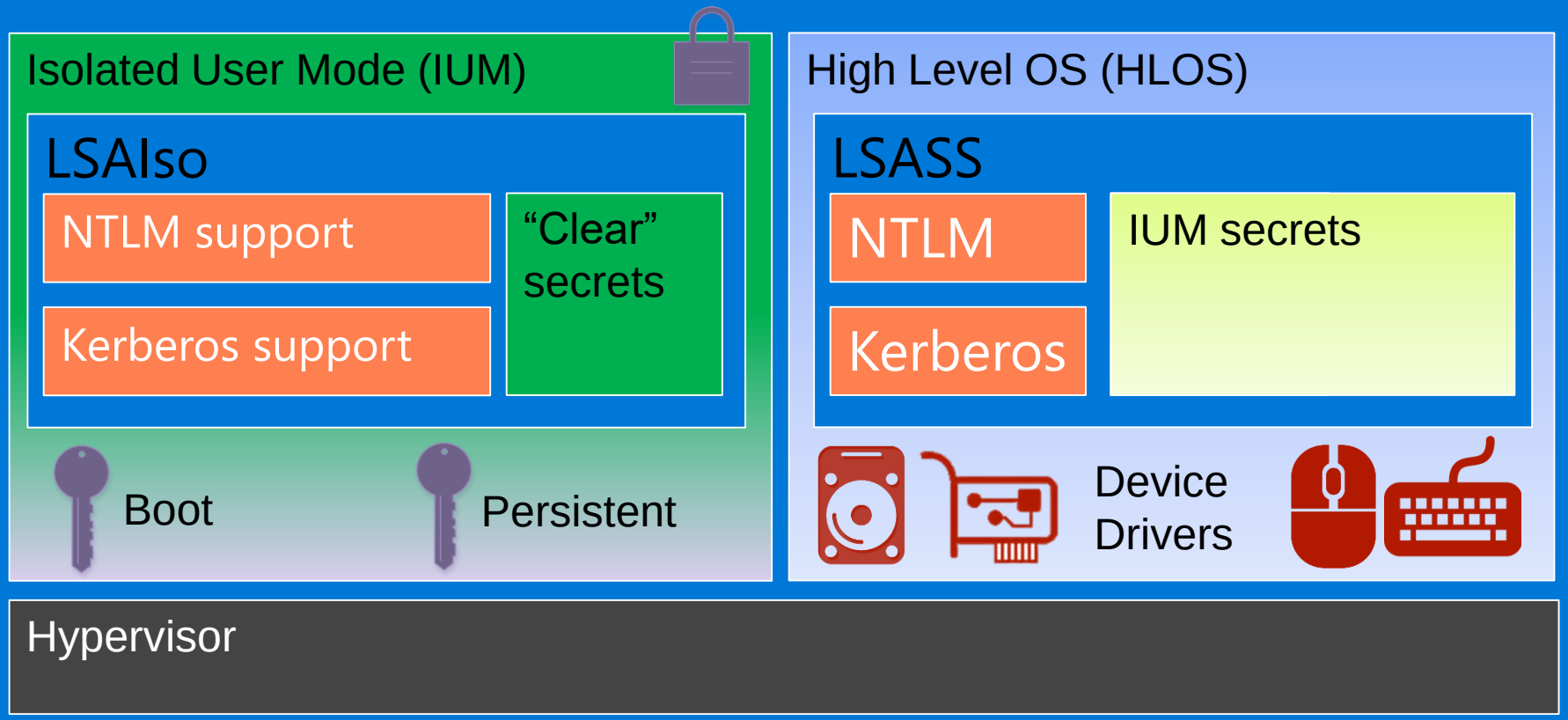
Isolated User Mode (IUM)

- Move LSASS function to VSM
  - Limited function OS
  - Strict signing - doesn't host device drivers
  - Provides strong isolation boundary
  - Building block for all security promises



High Level Architecture

- Move “clear” secrets to IUM “oracle”
  - Answers questions, but does not divulge secrets



Note: MS-CHAPv2 and NTLMv1 are *blocked*

Local Group Policy Editor

File Action View Help

Local Computer Policy
- Computer Configuration
  - Software Settings
  - Windows Settings
    - Name Resolution Policy
    - Scripts (Startup/Shutdown)
    - Deployed Printers
    - Security Settings
    - Policy-based QoS
  - Administrative Templates
    - Control Panel
    - Network
    - Printers
    - Server
    - Start Menu and Taskbar
    - System
      - Access-Denied Assistance
      - Audit Process Creation
      - Credentials Delegation
      - Device Guard
      - Device Installation
      - Device Redirection
      - Disk NV Cache
      - Disk Quotas
      - Distributed COM
      - Driver Installation
      - Early Launch Antimalware
      - Enhanced Storage Access
      - File Classification Infrastructure
      - File Share Shadow Copy Provider
      - Filesystem
      - Folder Redirection
      - Group Policy
      - Internet Communication Management
      - iSCSI
      - KDC
      - Kerberos
      - Locale Services
      - Logon
      - Mitigation Options
      - Net Logon
      - Power Management

Device Guard

Turn On Virtualization Based Security

Edit policy setting

Requirements:
At least Windows 10 Server, Windows 10 or Windows 10 RT

Description:
Specifies whether Virtualization Based Security is enabled.

Virtualization Based Security uses the Windows Hypervisor to provide support for security services. Virtualization Based Security requires Secure Boot, and can optionally be enabled with the use of DMA Protections. DMA protections require hardware support and will only be enabled on correctly configured devices.

Virtualization Based Protection of Code Integrity

This setting enables virtualization based protection of Kernel Mode Code Integrity. When this is enabled kernel mode memory protections are enforced and the Code Integrity validation path is protected by the virtualization based security feature.

Warning: All drivers on the system must be compatible with this feature or the system may crash. Ensure that this policy setting is only deployed to computers which are known to be compatible.

Credential Guard

This setting lets you decide

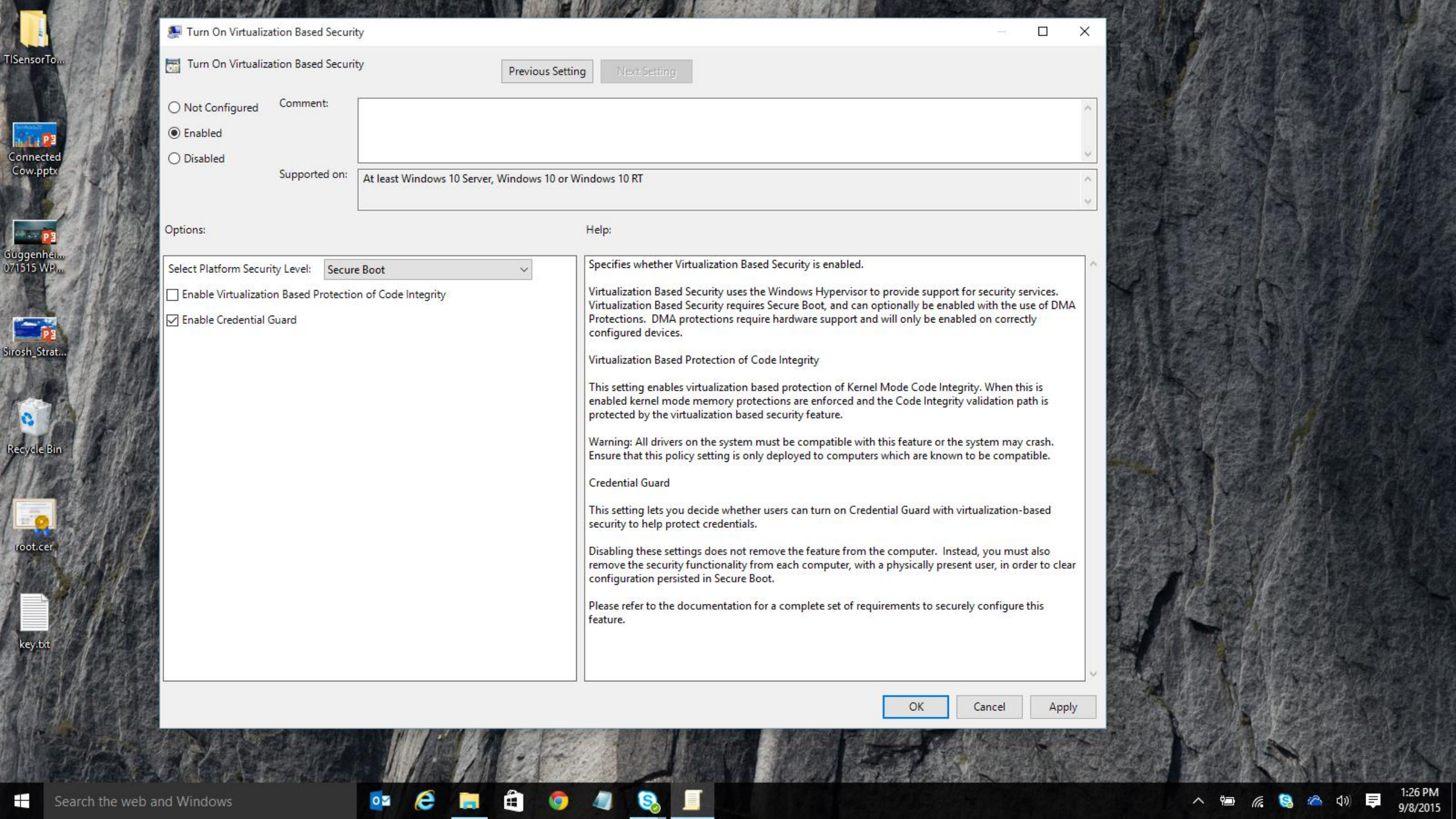
Setting	State	Comment
Deploy Code Integrity Policy	Not configured	No
Turn On Virtualization Based Security	Not configured	No

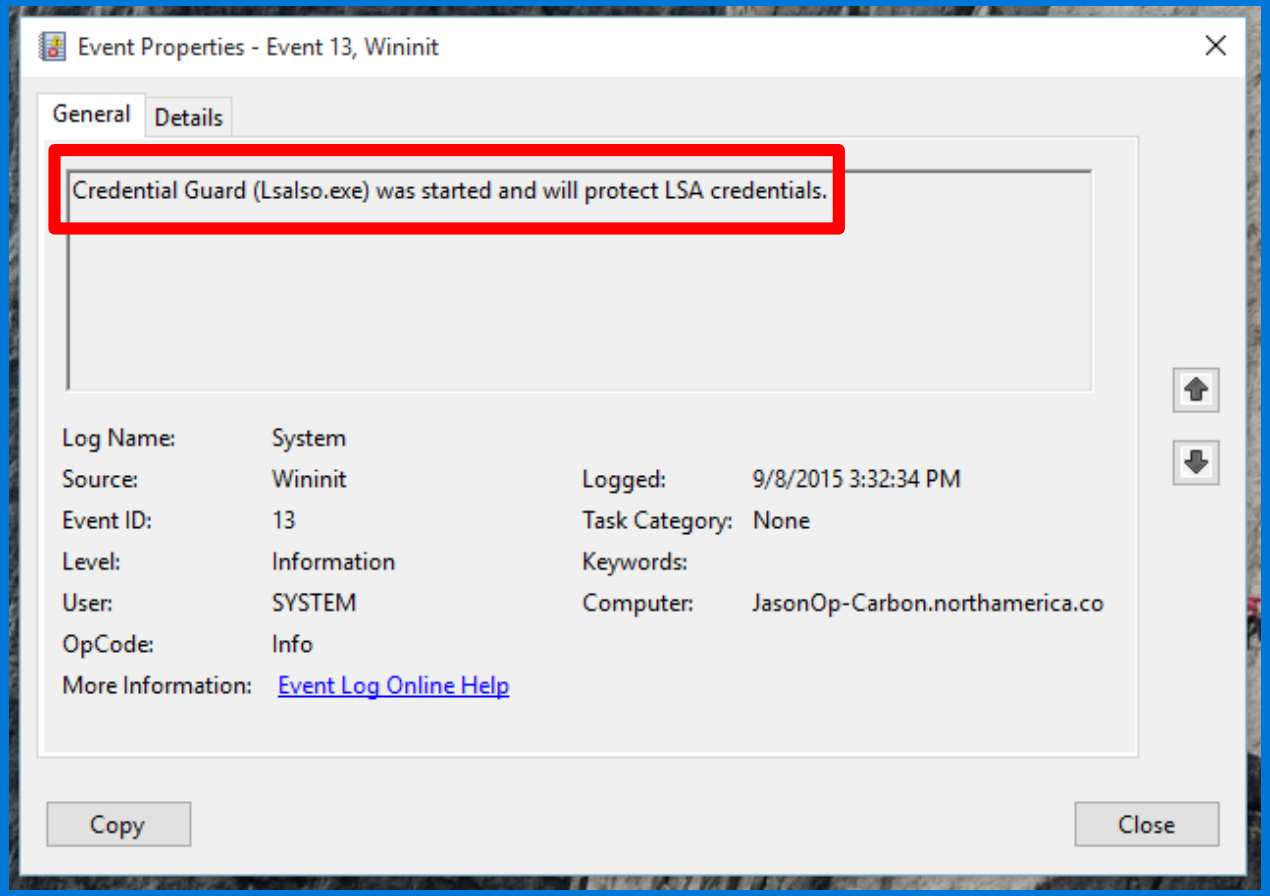
Extended Standard

2 setting(s)

Search the web and Windows

1:25 PM
9/8/2015


Turn On Virtualization Based Security
Turn On Virtualization Based Security
Previous Setting
Next Setting
Not Configured
Enabled
Disabled
Comment:
Supported on:
At least Windows 10 Server, Windows 10 or Windows 10 RT
Options:
Help:
Select Platform Security Level:
Secure Boot
Enable Virtualization Based Protection of Code Integrity
Enable Credential Guard
Specifies whether Virtualization Based Security is enabled.
Virtualization Based Security uses the Windows Hypervisor to provide support for security services. Virtualization Based Security requires Secure Boot, and can optionally be enabled with the use of DMA Protections. DMA protections require hardware support and will only be enabled on correctly configured devices.
Virtualization Based Protection of Code Integrity
This setting enables virtualization based protection of Kernel Mode Code Integrity. When this is enabled kernel mode memory protections are enforced and the Code Integrity validation path is protected by the virtualization based security feature.
Warning: All drivers on the system must be compatible with this feature or the system may crash. Ensure that this policy setting is only deployed to computers which are known to be compatible.
Credential Guard
This setting lets you decide whether users can turn on Credential Guard with virtualization-based security to help protect credentials.
Disabling these settings does not remove the feature from the computer. Instead, you must also remove the security functionality from each computer, with a physically present user, in order to clear configuration persisted in Secure Boot.
Please refer to the documentation for a complete set of requirements to securely configure this feature.
OK
Cancel
Apply
TISensorTo...
Connected Cow.pptx
Guggenhei... 071515 WP...
Sirosh_Strat...
Recycle Bin
root.cer
key.txt
Search the web and Windows
1:26 PM
9/8/2015



System Information

File Edit View Help

- System Summary
- Hardware Resources
- Components
- Software Environment

Item	Value
SMBIOS Version	2.7
Embedded Controller Version	1.02
BIOS Mode	UEFI
BaseBoard Manufacturer	LENOVO
BaseBoard Model	Not Available
BaseBoard Name	Base Board
Platform Role	Mobile
Secure Boot State	On
PCR7 Configuration	Elevation Required to View
Windows Directory	C:\WINDOWS
System Directory	C:\WINDOWS\system32
Boot Device	\Device\HarddiskVolume2
Locale	United States
Hardware Abstraction Layer	Version = "10.0.10240.16392"
User Name	NORTHAMERICA\jasonop
Time Zone	Mountain Daylight Time
Installed Physical Memory (RAM)	8.00 GB
Total Physical Memory	7.82 GB
Available Physical Memory	5.17 GB
Total Virtual Memory	9.07 GB
Available Virtual Memory	6.26 GB
Page File Space	1.25 GB
Page File	C:\pagefile.sys
Device Guard Virtualization based security	Running
Device Guard Required Security Properties	Base Virtualization Support, Secure Boot
Device Guard Available Security Properties	Base Virtualization Support, Secure Boot
Device Guard Security Services Configured	Credential Guard
Device Guard Security Services Running	Credential Guard

Find what: Find Close Find

Search selected category only Search category names only

Windows 10 – Device Guard

Device Guard

What is Device Guard?

- Combination of hardware + software security features
- Enables businesses to strongly control what is allowed to run
- Brings mobile-like security protections to desktop OS with support for existing line of business apps

Device Guard

The Parts to the Solution

- Hardware security
- Virtualization based security
  - Protects critical parts of the OS against admin/kernel level malware
- Configurable code integrity
- Manageability via GP, SCCM, MDM, and PowerShell

Virtualization Based Security

Provides a new trust boundary for system software

- Leverage platform virtualization to enhance platform security
- Limit access to high-value security assets from supervisor mode (CPL0) code

Provides a secure execution environment to enable:

- Protected storage and management of platform security assets
- Enhanced OS protection against attacks (including attacks from kernel-mode)
- A basis for strengthening protections of guest VM secrets from the host OS

Windows 10 services protected with virtualization based security

- LSA Credential Isolation
- vTPM (server only)
- Kernel Mode Code Integrity


Microsoft