Secure Host Baseline
Windows 10 Migration

21 April 2016
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Panel Member Introductions

Terri Parks, NSA

Ed Zick, DoD CIO

Ray Perry, AFECMO

Rick Munck, AFECMO

Chris McKinney, DISA RME

Mike Hayes, DISA ID
Overview

- **Task:** DoD CIO priority to migrate IT systems running MS Windows operating systems to Win10 by 31 January 2017; tasked DISA to lead rollout

- **Methodology:** Services implement DoD Win10 Secure Host Baseline as a security hardened, STIG compliant “build from” capability
  - Leveraging refined NSA and Air Force standard desktop process
  - New paradigm for continuous updates and patching; will be available on Information Assurance Support Environment (IASE) portal
  - Will include commonly used and mandated applications (i.e., Google Chrome)

- **Benefits:** Win10 security enhancements, fewer configurations, improved interoperability, enterprise licensing, apps rationalization
Background

- Apr 2009 efforts began with Standard Desktop Configuration (SDC)/DoD Server Core Configuration (DSCC) “images”
- Oct 2010 CENTCOM Unified Golden Master (UGM) for AOR urgent needs
- Oct 2011 MilDep CIO buy-in for Unified Master Gold Disk (UMGD) concept
- Dec 2012 Request from Dep DoD CIO for Cyber Security to Create PMO
- Oct 2013 Rebranded to Secure Host Baseline (SHB) “build from”
- May 2014 released first SHB for Win 7 on DISA IASE web site
- Sept 2015 DoD CIO request for Win 10 SHB rapid rollout across DoD

Leveraged AF’s standard desktop image experience to develop current methodology
Joint Secure Host Baseline Working Group*

Lead by NSA and DISA

Partnership
- DoD CIO
- AF Enterprise Configuration Management Office (AFECMO)

Lead Integrators
- **Government**
  - NSA
  - DISA
  - DoD CIO
  - AFECMO
  - OSD
  - USMC
- **Industry**
  - Microsoft
  - Apple
  - Red Hat
  - Other vendors

*Formerly call the Joint Consensus Working Group*
DoD joint initiative and validation

- Security Technical Implementation Guides (STIG) worked thru Security Settings Reviews (SSR)
- Hardened baselines
  - Windows
  - Apple
  - Linux
  - Various applications
- Inheritance and reciprocity
- .mil

AFECMO

- Tasked by NSA/Joint SHB WG to develop Windows baselines
- On-going effort since 2009 with several “published” OS baselines
- Funded by NSA to develop for the DoD
Solution Overview

Optional Organization Specific Customizations

SHB Framework and Customization Guidance

Org Branding

Applications

Patches & Updates

Drivers

MDT

MDT

MDT

MDT

Deploy

Capture

Custom Image File (WIM)

Reference Machine
Download Framework, Deployment Share, and Maintenance Packages

Install SHB Solution on a “Lab Machine” (non-production)

Add Customizations (Optional) such as Drivers, Custom Apps, Branding, etc.

Open Framework

Plan Deployment Method

Start Maintenance Cycle

Login to DISA IASE Website

Option 1: Deploy Using Enterprise Infrastructure (SCCM, etc)

Option 2: Deploy Using Bootable Media

End-to-End Process
Key Objectives:
• Improve Endpoint Security
• Enhance Interoperability
• Increase Efficiencies

Challenges
- Third-party driver compatibility issues
- VDI compatibility with Credential Guard
- Hardware upgrades (legacy systems)

Legend
- Complete
- On Schedule
- At Risk

31 Jan 2017 Migration Complete

Fall – Redstone Release (SHB 10.2)

22 Mar – USCC TASKORD Released
3 Mar – Win10 SHB Posted on IASE Portal
29 Feb – DEPSECDEF Action Memo Released
12 Jan – Briefed DSAWG
20 Nov – DoD CIO Memo Released
9 Nov – Briefed Ent Sec Solutions Group (ESSG)
4 Nov – Briefed Ent Arch Engineering Panel (EAEP)
1 Oct – Briefed JIE EXCOM

UNCLASSIFIED
• Prior to deploying Windows 10, site HBSS ecosystem must be prepared to support Windows 10. SHB requires specific modules and patches that have been updated to support the DoD Windows 10 SHB framework.

• Site Administrators will have to verify the applicable modules and patches are configured in the local ePO for deployment to new Windows 10 clients. Failure to use the correct versions of modules and patches will result in a catastrophic failure at the endpoint.

• The HBSS Windows 10 information is located on the DISA IASE web portal under the Windows 10 SHB section:

• DISA and USAF team have coordinate a Software Forge site where administrators can collaborate on both the Windows 10 (USAF) and HBSS (DISA) aspects of the SHB deployment.
## Win10 SHB Applications – “First Release”

<table>
<thead>
<tr>
<th>Application</th>
<th>Install Default</th>
</tr>
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<tbody>
<tr>
<td>AppLocker Whitelist Starter Policy</td>
<td>Mandatory</td>
</tr>
<tr>
<td>Group Policy</td>
<td>Mandatory</td>
</tr>
<tr>
<td>Image Branding</td>
<td>Mandatory</td>
</tr>
<tr>
<td>McAfee VirusScan Enterprise</td>
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</tr>
<tr>
<td>Microsoft NetBanner</td>
<td>Mandatory</td>
</tr>
<tr>
<td>NIPRNet DoD Root Certificates</td>
<td>Mandatory</td>
</tr>
<tr>
<td>Windows 10 Enterprise (CBB)</td>
<td>Mandatory</td>
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All apps (both mandatory and optional) have STIGs or meet NSA security specs; common DoD-wide apps

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</tr>
<tr>
<td>Adobe Acrobat Reader</td>
<td>Optional</td>
</tr>
<tr>
<td>Adobe Flash Player Plugin-based browser</td>
<td>Optional</td>
</tr>
<tr>
<td>Adobe Shockwave Player</td>
<td>Optional</td>
</tr>
<tr>
<td>Axway Desktop Validator</td>
<td>Optional</td>
</tr>
<tr>
<td>DoD Trusted Sites List</td>
<td>Optional</td>
</tr>
<tr>
<td>Google Chrome</td>
<td>Optional</td>
</tr>
<tr>
<td>Local Security Policies</td>
<td>Optional</td>
</tr>
<tr>
<td>Microsoft Office Professional (x86)</td>
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</tr>
<tr>
<td>Oracle Java Runtime Engine</td>
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**Future potential** to sunset existing duplicative security tools
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