
USAF Implementation of FDCC

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USAF Background

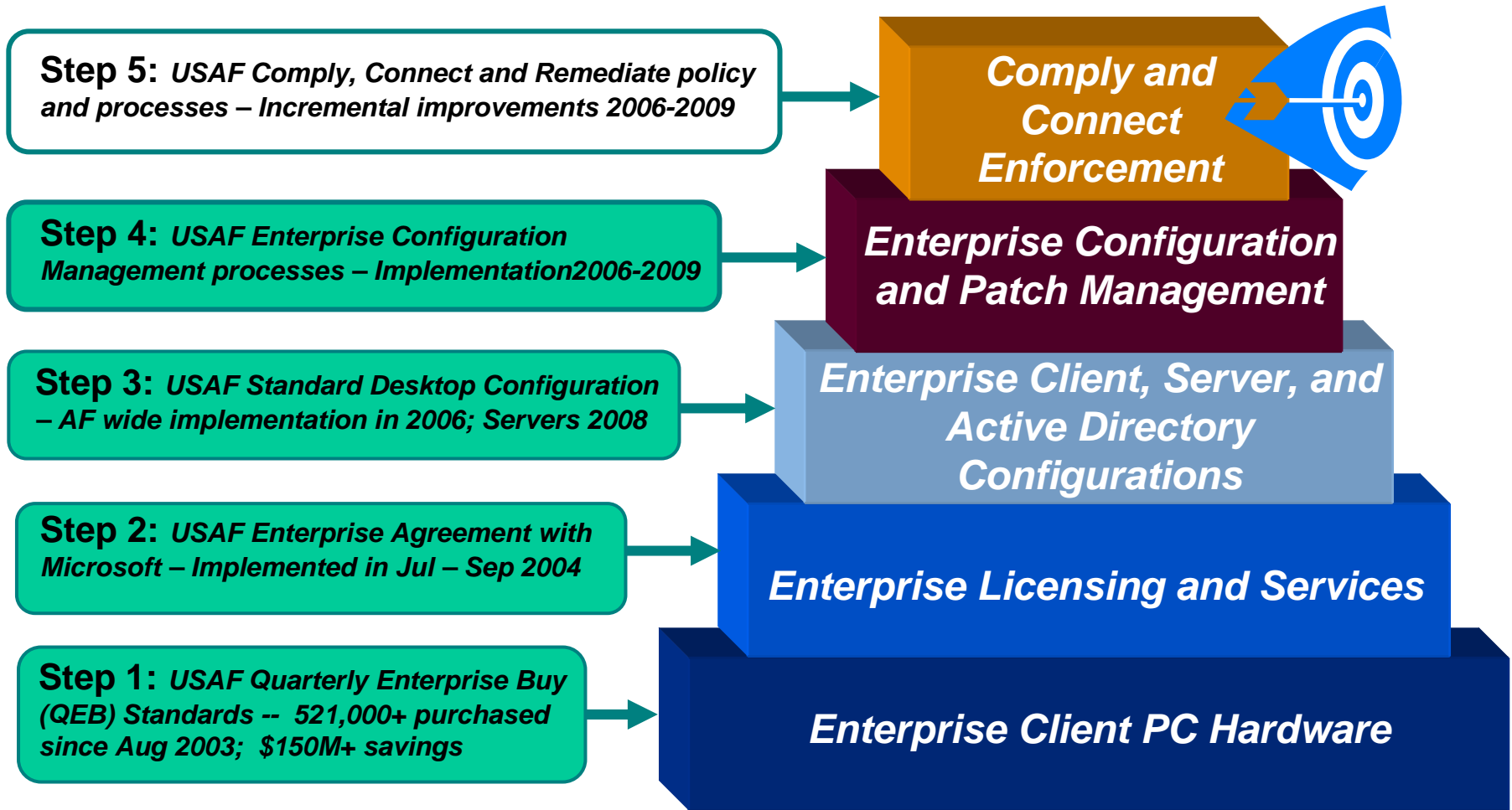
■ **Status in Nov 2005**

- **Many Hardware/Software Baselines**
- **Programs/bases built configurations**
- **Average user could install software**
- **No USAF level configuration manager**
- **100+ days to install security patches**
- **Slow adoption of new technology**
- **Variety of systems management tools**

■ **2006-2008 Desired Outcomes**

- ☑ **One AF Standard Configuration**
- ☑ **AF Level Configuration Mgt**
- ☑ **Limit system admin privileges**
- ☑ **AF level configuration manager**
- ☑ **Rapid Patch Mgt Process**
- ☑ **Plan for early adoption decision**
- ☑ **AF standard toolset with procedures**

Security & Capability Roadmap

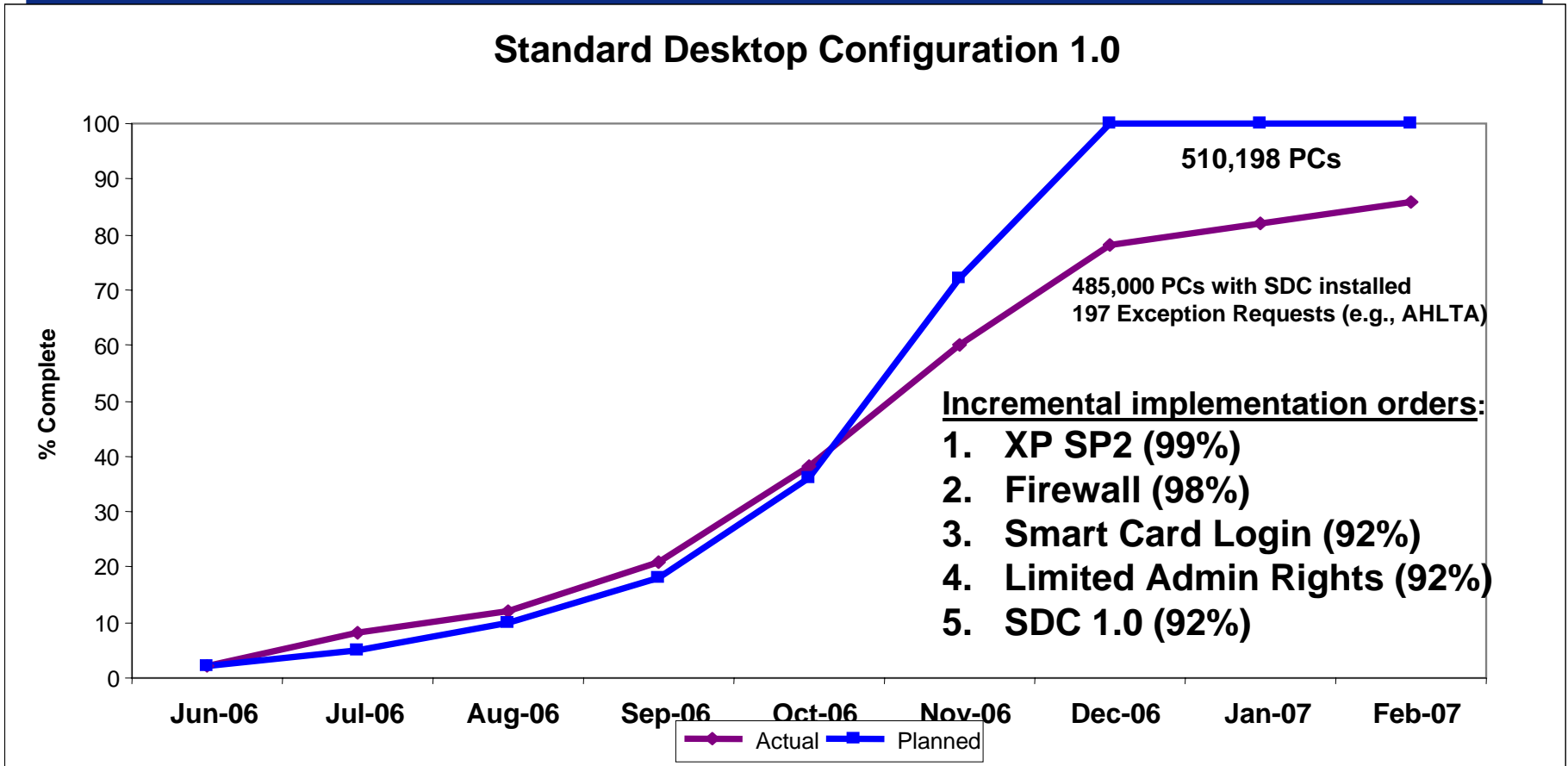


Standard Desktop Configuration (SDC Version 1.x and 2.x)

- **Two Enterprise Wide Versions**
 - SDC v1 - Windows XP, Office 2003, Internet Explorer 7
 - SDC v2 - Windows Vista, Office 2007, Internet Explorer 7
 - Both versions have only a few differences from the FDCC
- **Security, performance, feature, compatibility & usability configuration settings**
 - Developed by NSA, DISA, DHS, NIST, Microsoft, and Air Force in Feb 2005
 - Included Army, Navy, Marines, and DIA for Vista/Office 2007
- **Pre-configured, pre-installed, and pre-tested configurations and procedures with help desk support**
- **Configuration re-enforced by automated policies**
- **Will migrate to DoD FDCC**

Consistent capability for users/developers...enterprise configuration management

SDC v1 AF Wide Deployment Result (XP/Office 2003/Internet Explorer 6)



2006 Goal: 100% by 31 Dec 06; last 8% now the challenge

USAF SDC 2.0

(Vista/Office 2007/IE 7) Plan

- ☑ **Nov 06 - Establish USAF baseline configuration**
- ☑ **Jan 07 - Build initial USAF test configuration**
- ☑ **Feb 07 - Configuration Testing/Validation**
- ☑ **Feb 07 - Hardware Testing**
- ☑ **Mar 07 - Test XP with IE7 at 8 lead bases (SDC 1.3)**
- ☑ **Apr 07 - DoD Standard Desktop Configuration Way Ahead**
- ☑ **Apr 07 - Test software applications for compatibility**
- ☑ **May 07 - Test XP with Office 2007 at 8 lead bases for (SDC 1.5)**
- ☑ **Jul 07 - Test Vista, Office 2007, IE 7 at 8 lead bases (SDC 2.0)**
- **Mar 08 - Earliest timeframe for approved USAF use**

Toughest Challenges

- **Removing local admin rights from normal users**
 - Restricts installing software from CD or Internet
 - Restricts disabling of security settings
 - Restricts deviations from the enterprise standard
 - Restricts a worm/virus from inheriting admin access
- **Testing DoD and Air Force applications to assure they function properly and without a user having local admin rights**
 - Caused most of incompatibility problems
 - Generated 197 Exceptions requests
- **“Simple and Easy” process to install across the Air Force**

Conclusions

- A “Window” of opportunity to implement enterprise configuration management the first time for those that choose to use Vista
- Reduces infrastructure acquisition and sustainment costs; yet more effective and secure for everyone
- Uses operational configurations that can be verified and with SCAP content and tools
- A critical step to enable automated compliance checking and remediation
- Proven jump start materials provided by DoD, OMB, NIST, and Microsoft
- A potential model to be applied to other operating systems and infrastructure software

Questions?

