

CLIENT X

Discovery and Readiness

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SERVICES MAY 28, 2013



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Executive Overview

This document summarizes the findings from mPower's assessment of CLIENTX's Desktop environment for Windows 7 migration and continuous support readiness. An outline of ClientX's current Operating System Deployment, (OSD) state and provides requirements to support the implementation of a new OSD process; In addition to an analysis of the current Windows 7 application compatibility and desktop support tools.

Assessment Results Summary

Software Analysis

Systems Management Data

From the Marimba environment, raw hardware and software data is extracted, then aligned and enriched (normalized) to provide consistent, intelligible and actionable information. This process increases the value of the existing environment without the need to deploy or maintain a tool, therefore minimizing any intrusion to the environment.

The data extraction is initiated by running an executable against the current Marimba database. The executable launches a guided user interface in order to execute the commands of a proper configuration file that matches the current infrastructure. The configuration file used was marimba.extractor.config. This file is supported by additional information related to the Marimba database (Data Source, Port, initial catalog, User ID, Password, Authentication type.) This is a read only execution against the database. Once the path is confirmed the extractor executes and obtains the necessary data.

Provided Files

ClientX provided us with a list of their current approved applications in addition to user demographic data in order to provide details on user specific installs.

The software analysis provides the following information:

- ◆ Current client operating systems discovered during the assessment.
- ◆ Summary of the most prevalent software applications discovered on client computers during the assessment.

Operating System Analysis

The following table shows the client operating systems that the assessment found in your environment and indicates the number of installations for each operating system.

Operating Systems Found

<i>Virtual Machines</i>	<i>465</i>
<i>Microsoft Windows 7 Enterprise</i>	<i>9</i>
<i>Microsoft Windows 7 Professional</i>	<i>81</i>
<i>Microsoft Windows Embedded for Point Of Service</i>	<i>1</i>
<i>Microsoft Windows Server 2003 R2 Enterprise Edition</i>	<i>40</i>
<i>Microsoft Windows Server 2003 R2 Enterprise x64 Edition</i>	<i>1</i>
<i>Microsoft Windows Server 2003 R2 Standard Edition</i>	<i>12</i>
<i>Microsoft Windows Server 2003 R2 Standard x64 Edition</i>	<i>1</i>
<i>Microsoft Windows Server 2003 Standard Edition</i>	<i>5</i>
<i>Microsoft Windows Server 2008 R2 Enterprise</i>	<i>137</i>

Microsoft Windows Server 2012 Datacenter	2
Microsoft Windows Server 2012 Standard	1
Microsoft Windows XP Professional	165
Microsoft® Windows Server® 2008 Enterprise	4
Microsoft® Windows Server® 2008 Standard without Hyper-V	1
Desktops	446
Microsoft Windows 7 Professional	1
Microsoft Windows XP Professional	445
Notebooks	436
Microsoft Windows 7 Enterprise	1
Microsoft Windows 7 Professional	1
Microsoft Windows 7 Ultimate	1
Microsoft Windows XP Professional	433
Servers	166
Microsoft Windows Server 2003 R2 Enterprise Edition	10
Microsoft Windows Server 2003 R2 Enterprise x64 Edition	20
Microsoft Windows Server 2003 R2 Standard Edition	27
Microsoft Windows Server 2003 R2 Standard x64 Edition	11
Microsoft Windows Server 2003 Standard Edition	12
Microsoft Windows Server 2008 R2 Enterprise	57
Microsoft Windows Server 2008 R2 Standard	28
Microsoft® Windows Server® 2008 Standard	1
Workstations	37
Linux	1
Microsoft Windows 7 Enterprise	1
Microsoft Windows 7 Ultimate N	1
Microsoft Windows XP Professional	34

Application Summary

Normalization Process

The data is first compared against current market compatibility data (updated weekly), which provides comprehensive coverage of hardware and software, all classified into an easily understood and usable taxonomy. The market data contains over 17,000,000 data points, providing the relevant market content to support informed decisions.

Secondly, an examination and analysis of all Marimba data – add/remove, executable, metering data, etc. was conducted to ensure the best information for the application rationalization and standardization decision-making process. An alignment of individual software products to packaged suites, OS components and drivers is conducted in order to provide detailed information about the hardware on which the software is running. Additionally market compatibility data information (not found in Marimba or the provided data) is added in order to provide Windows 7 compatibility, end-of-life dates, usage and licensing information data.

Compatibility

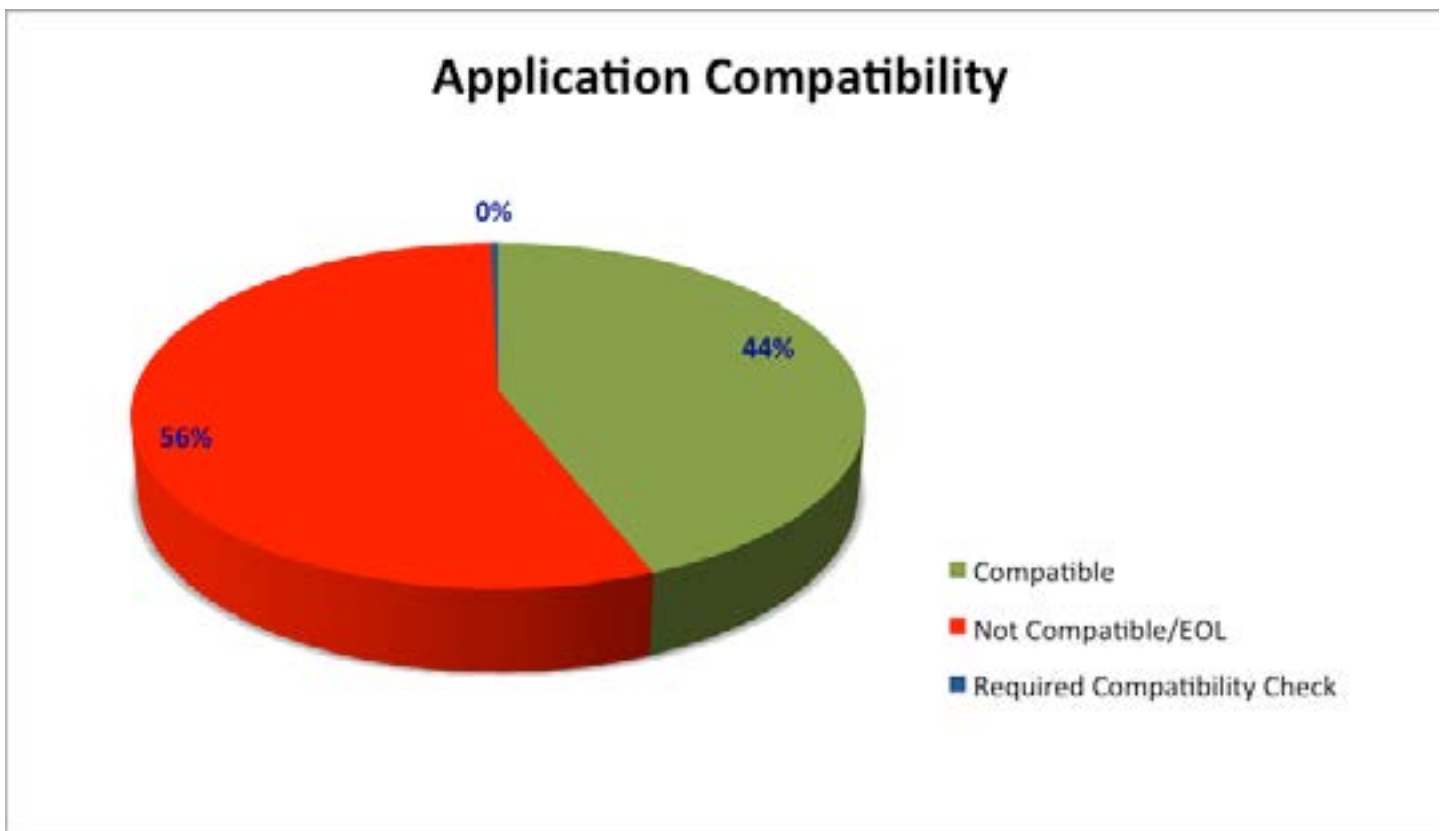
The scanned data returned a total of 460 unique applications installed. When taking into a count the multiple versions of these applications the number increases to 827 applications installed. That is 662 more applications than those listed as approved applications by the ClientX Certified application list provided. Out of the applications installed in the environment only 44% are Windows 7 compatible.

Non-Compatibility

One key finding is the number of applications installed that are Non-Compatible with Windows 7. This shows the need for the environment to be standardize to compatible versions that will allow for Windows 7 compatibility and also show an overall coherence of available certified applications. When breaking down the environment to discover Non-Compatibility, it shows that out of the 460 unique applications and their various versions, 311 are Non-Compatible applications and require an upgrade. Of these only 29 are installed in 10 or less workstations on the environment. This constitutes a major finding, as 56% of the application environment is Not-Compatible with Windows 7.

Required Compatibility Check

Out of the applications currently installed, only 3 will require of Vendor specific compatibility check.



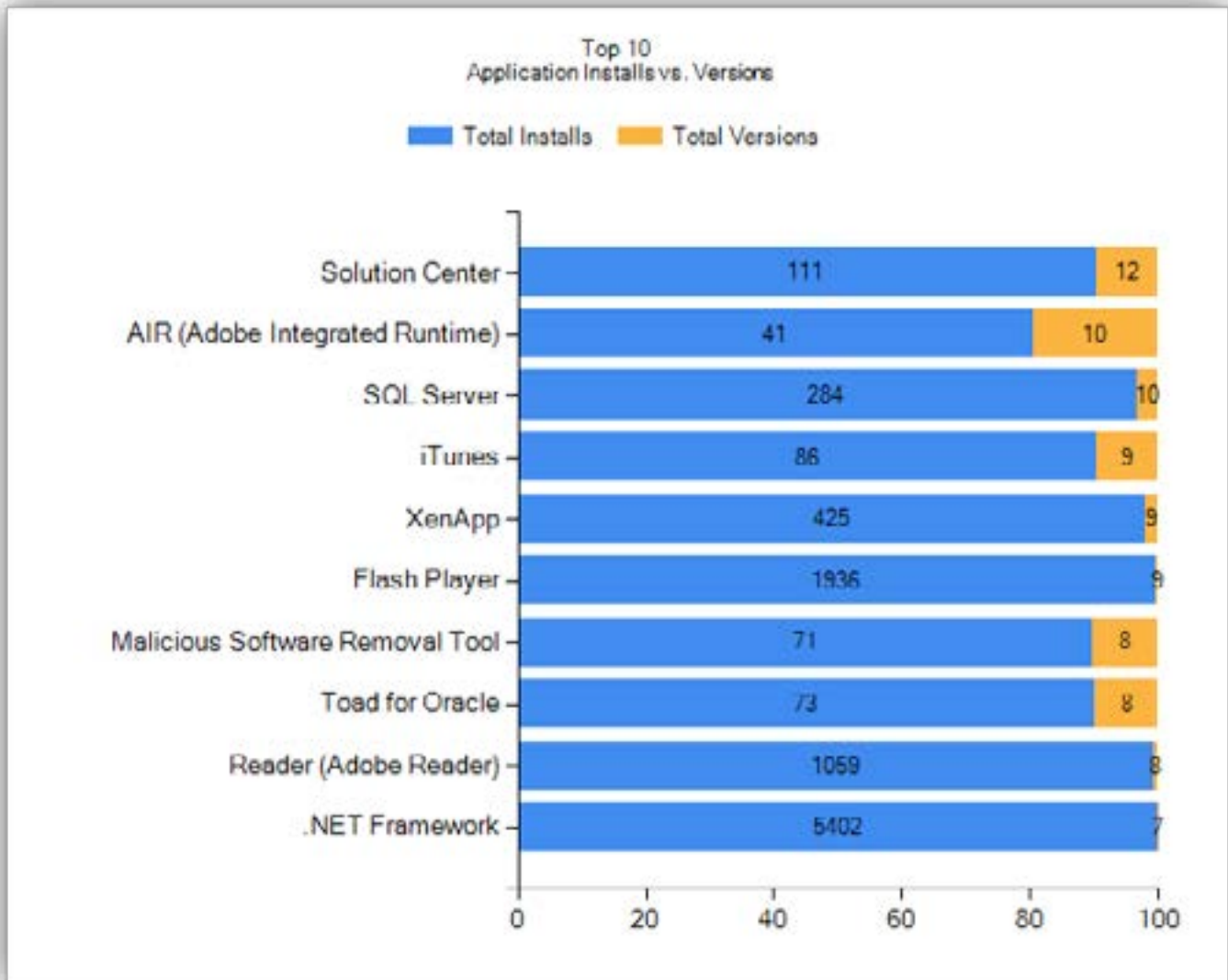
Compatibility chart based on Applications (All Versions)

Compatible		364
Not Compatible/EOL		460
Required Compatibility Check		3
Grand Total		827

NOTE: For a Detailed view of application compatibility please see the provided Microsoft Office Excel® workbook under Win 7 Compatibility Detail Pivot.

Versions

Although the number of non-compatible applications is high, the number of versions per unique application is manageable; however it needs to be standardized for purposes of compatibility and application library lifecycle and management. There are 185 applications with 2 or more versions out of the 460 unique application titles.



Number of Versions	Application Titles
12	1
10	1
9	2
7	6
6	5
5	6
4	15
3	46
2	103

The table below lists top10 Licensable software with most prevalent versions installed on the client computers.

<i>Row Labels</i>	<i>Compatible</i>	<i>Not-Compatible/EOL</i>	<i>Required Compatibility Check</i>	<i>Grand Total</i>
<i>Solution Center</i>		12		12
<i>Acrobat</i>	8	1		9
<i>Communication Manager</i>	4	3		7
<i>Distiller</i>	3	3		6
<i>Toad for Oracle</i>	2	4		6
<i>Visual Studio</i>	3	3		6
<i>XenApp Online Plug-In</i>	6	3		6
<i>SnagIt</i>	2	3		5
<i>Data Modler</i>	1	4		5
<i>Visio</i>	1	4		5

The following table lists the top 10 software titles with most prevalent versions installed on the client computers for which a free update is available to the Windows 7 compatible version.

<i>Row Labels</i>	<i>Compatible</i>	<i>Not-Compatible/EOL</i>	<i>Required Compatibility Check</i>	<i>Grand Total</i>
<i>AIR (Adobe Integrated Runtime)</i>	8	2		10
<i>iTunes</i>	4	5		9
<i>Java Runtime Environment (JRE)</i>	6	1		7
<i>Reader (Adobe Reader)</i>	5	2		7
<i>Malicious Software Removal Tool</i>	5	2		7
<i>Flash Player</i>	7			7
<i>Tools</i>		7		7
<i>Desktop Software</i>	5	1		6
<i>SQL Server Tools</i>		5		5
<i>Player</i>	4	1		5

The graph below details the options to upgrade for a standard version and the assumption of possible cost as determined by the vendor per application compatibility status.

<i>Application Compatibility Status</i>	<i>No Cost to Upgrade</i>	<i>Cost to Upgrade</i>	<i>Total Applications</i>
<i>Compatible</i>	171	193	364
<i>Non Compatible/EOL</i>	207	253	460
<i>Required Compatibility Check</i>	1	2	3

The Win 7 application compatibility report provides a breakdown of each application version and number of installs associated with each title.

Hardware Compatibility Analysis

During the discovery of all assets in the environment, the following assets represent the key hardware discovered in the infrastructure based on the IP ranges provided for the scan.

<i>Hardware Type</i>	<i># Of Assets</i>
<i>Desktops</i>	3765
<i>Notebooks</i>	1150
<i>Monitors</i>	7157
<i>Servers (Based on Windows Server OS)</i>	767
<i>Network Base Printers</i>	126
<i>Machine Attached Printers (Local)</i>	726
<i>Hub Switches</i>	202
<i>Other Network Equipment Cisco Systems (This could be routers / Not access for qualification)</i>	499

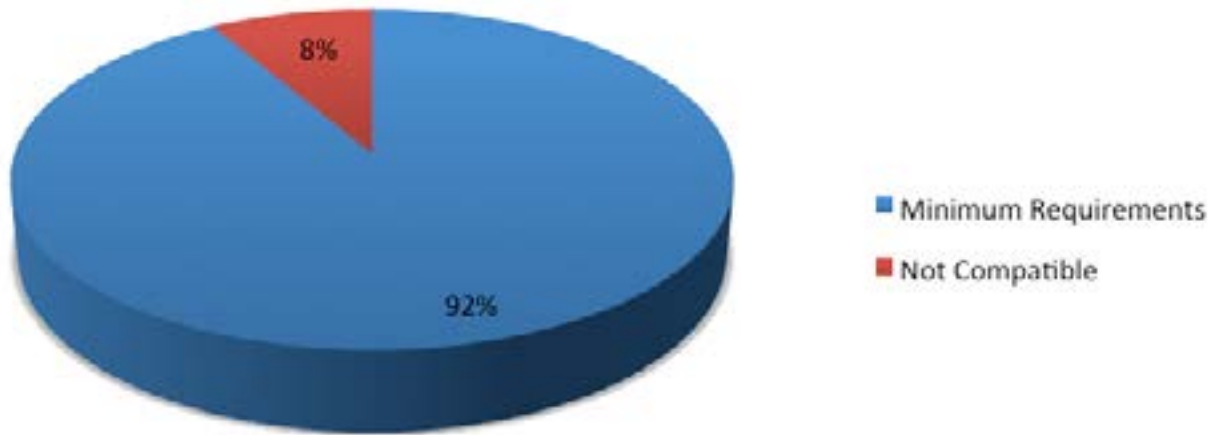
The Discovery effort returned data for 1550 machines when combining physical and virtual workstations and servers. Of these 1384 are actual workstations (virtual and physical). The table below provides the number of workstations based on type, manufacturer and model. The Discovery effort returned data for 1550 machines when combining physical and virtual workstations and servers. Of these 1384 are actual workstations (virtual and physical). The table below provides the number of workstations based on type, manufacturer and model.

This part of the assessment utilizes the term "ready for Windows 7" to describe a computer that meets the hardware requirements for Windows 7 Enterprise as per Microsoft minimum requirements (1 gigahertz (GHz) or faster, 1 gigabyte (GB) RAM, 16 GB available hard disk space). For mPower recommendations please see the Image and Build Section of this document.

<i>Virtual Machines</i>	<i>465</i>
<i>EB1006</i>	6
<i>HP Compaq dc5100 MT(PT019AA)</i>	1
<i>HVM domU</i>	1
<i>VirtualBox</i>	1
<i>VMware Virtual Platform</i>	446
<i>Desktops</i>	446
<i>HP Compaq 6000 Pro MT PC</i>	443
<i>HP Compaq 6005 Pro SFF PC</i>	1

HP Compaq dc5700 Microtower	1
HP Compaq dc7800 Small Form Factor	1
Notebooks	436
HP EliteBook 6930p	236
HP EliteBook 6930p (FL492AW)	1
HP EliteBook 8440p	195
HP EliteBook 8470p	4
Workstations	37
HP EliteBook 8730w	19
HP EliteBook 8740w	18

Workstation Copatibility



The Windows 7 Hardware Assessment workbook that accompanies this assessment provides detailed information about each of the computers inventoried.

Application Compatibility Recommendations

To properly achieve application standardization, mPower recommends for ClientX to conduct an end-to-end analysis of their application portfolios this to improve and obtain standards in application functionality, versioning, licensing and retirement of applications no longer relevant to their environment.

- The first step to this standardization process is, to perform a rationalization exercise that will allow them to: Filter applications to obtain proper functional area use and relevance.
- Identify and distinguish needs for stand-alone product or a suite of product. This will allow ClientX to know when two products with different names are the same product for purposes of functionality and savings on software license audit
- Create and maintain a comprehensive picture of software inventory (Application Library).

- d. Understand which applications are candidates for virtualization or need to package for distribution.
- e. Develop a profile application usage by job to reduce the number of deployed redundant applications.

Engage all departments and functional areas, in the review of rationalized data to identify applications related and relevant to their function(s). This will assist in the streamlining and consolidation of the application portfolio with production ready application packages and pristine application library available in the environment.

Perform a comprehensive application packaging effort that will facilitate an application portfolio preparation process. In order to meet industry best practices, all established quality guidelines and standards; a refinement of the application packaging process is required. This will result in a packaging process that will improve the availability of applications within the portfolio, thus saving production time.