

Internet Explorer Migration Assessment

Summary Report

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**Date:** Wednesday, October 24, 2012

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**Contents**

[Executive Overview 1](#_Toc326674311)

[Internet Explorer 9 Benefits 1](#_Toc326674312)

[Fast 1](#_Toc326674313)

[Clean 1](#_Toc326674314)

[Trusted 2](#_Toc326674315)

[Interoperable 2](#_Toc326674316)

[Assessment Results Summary 2](#_Toc326674317)

[Web Browser Analysis 2](#_Toc326674318)

[Installed Web Browsers 3](#_Toc326674319)

[Default Web Browsers Configured 4](#_Toc326674320)

[Web Browsers Deployed on Windows XP 5](#_Toc326674321)

[ActiveX Controls Summary 5](#_Toc326674322)

[Internet Explorer Browser Helper Objects 6](#_Toc326674323)

[Internet Explorer Toolbars 6](#_Toc326674324)

[Operating System Summary 6](#_Toc326674325)

[Application Summary 6](#_Toc326674326)

[Next Steps 8](#_Toc326674327)

[Appendix A: Windows 7 Enterprise Hardware Requirements 10](#_Toc326674328)

[Appendix B: Internet Explorer Migration Assessment Report Worksheets 11](#_Toc326674329)

# **Executive Overview**

This document summarizes the results of the Internet Explorer Migration Assessment generated by the Microsoft® Assessment and Planning (MAP) tool. This document includes details about web browsers and plug-ins deployed in your environment and provides the information you need to migrate previous releases of Windows® Internet Explorer® to Internet Explorer 9. The assessment identifies the current state of Internet browser installations in your environment with detailed information on add-in software for Internet Explorer and third-party browser use to help assess the impact of migrating to the latest version of Internet Explorer.

The accompanying *Internet Explorer Migration Assessment Report* provides detailed information about browsers and controls on each inventoried computer on your organization’s network, allowing you to analyze your existing deployment and use of Internet browsers.

This summary document provides inventory results (data, charts, and tables) for computers in your environment that are already running a Windows client operating system, such as Windows XP, Windows Vista® or Windows 7.

# Internet Explorer 9 Benefits

The following sections describe the benefits that Internet Explorer 9 provides in these key areas:

* Fast - A browser that takes advantage of the full power of your PC
* Clean – Fresh new UI that integrates well with Windows 7
* Trusted – Security features that provide a safer browsing experience.
* Interoperable – A browser that supports the latest HTML5 industry standards.

## Fast

Internet Explorer 9 is all-around fast. Part of reimagining the role of the browser to deliver immersive, compelling web experiences is rethinking the concept of fast. Today, fast is too often narrowly defined as page load time. Tomorrow, a browser will not be able to call itself fast unless it lets people interact with graphically rich sites and applications with lightning speed. Fully hardware-accelerated graphics, text, video, and audio through Windows means that the same markup not only works across the web, but runs faster and delivers a richer experience. Designed to take full advantage of the power of your computer’s hardware through Windows, Internet Explorer 9 delivers dynamic experiences that are as fast and responsive as native applications installed on your computer.

## Clean

Internet Explorer 9 puts the focus on the web sites you love, with a clean experience for your web that meets you where you are. With Internet Explorer 9 and Windows, we rethought the role of the browser and how people interact with websites and web applications. While other browsers focus on the browser itself, Internet Explorer 9 is site-centric, as opposed to browser-centric. You have the websites you love with a clean look that makes your websites shine.

## Trusted

Internet Explorer 9 helps people feel confident and in control. The more that the web becomes part of our everyday lives, the more complex that the issues of online trust and browser trust become. When done correctly, creating a trustworthy browser helps customers feel connected to the web, not distracted by concerns about reliability, privacy, or safety. Internet Explorer 9 is the trusted way to access the web because it has a robust set of built-in security, privacy, and reliability technologies that can help keep you safer and your browsing experience virtually uninterrupted.

## Interoperable

Extensive support for HTML5, Scalable Vector Graphics (SVG), Cascading Style Sheets Level 3 (CSS3), ECMAScript 5 and DOM provides a new set of capabilities that will help enable developers write one set of markup language and know that it will work and look the same in all modern browsers. Internet Explorer 9 was designed with support for industry standards built in to help ensure that the same markup language works the same across browsers.

* Internet Explorer continues to be the most IT friendly browser. Key capabilities make deploying and managing Internet Explorer easier: Internet Explorer continues to give IT Professionals unprecedented control with nearly 1500 group policies. Tools such as Group Policy Editor and Group Policy preferences make it easy to configure the browser.
* *Internet Explorer Administration Kit* (IEAK), which you can use to build deployment and configuration packages.
* The default application compatibility modes for Internet Explorer 9 are the same as those for Internet Explorer 8.
* *Site to Zone Assignment List*, which ensures that your browser knows which sites should be treated as Local Intranet sites.
* *Internet Explorer Standards Mode*, which you can turn on for local Intranet to ensure that you are running in the more compatible mode for your internal sites.
* Policy list for Windows Internet Explorer 7 sites, which you can use when adding additional external sites requiring enhanced compatibility.

# **Assessment Results Summary**

With the results of the Internet Explorer Migration Assessment, you can make informed decisions about upgrading your organization’s web browsers to Internet Explorer 9 in conjunction with deployment of Windows 7. This section summarizes the results of the assessment of your network and provides the information you need to plan and deploy Internet Explorer 9. This section provides the following:

* A summary of the web browsers installed and the default web browsers configured on client computers in your environment.
* Information about ActiveX controls, Browser Helper Objects and toolbars deployed with Internet Explorer.
* A summary of client operating systems and applications deployed in your environment.

## Web Browser Analysis

This section provides summary and detailed information about web browsers deployed on computers in your network. The assessment found # client computers in your environment. A total of # computers are running Internet Explorer 9 or later and # computers are running a prior version of Internet Explorer. You also have computers running browsers from third-party vendors. According to the assessment performed using the MAP tool, your organization has the potential to take advantage of the benefits of Windows 7 Enterprise and the latest web browser.

### Installed Web Browsers

Figure 1 and Table 1 show Microsoft and third-party web browsers that the assessment discovered in your environment and the number of installations for each web browser.

Figure 1. Web Browsers Installed

Table 1. Web Browsers Installed

| **Installed Web Browser** | **Count** | **Percentage** |
| --- | --- | --- |
|  |  |  |

Table 2 shows detailed information about web browser versions and operating systems on which they are deployed. The Internet Explorer Migration Assessment found some computers not running Windows 7, or the latest version of Internet Explorer. You can upgrade # computers running a prior operating system to Windows 7. You can deploy Internet Explorer 9 on # computers that are either running prior versions of Internet Explorer or are Windows XP machines that are capable of running Windows 7.

Table 2. Web Browsers Installed by Operating System

| **Installed Operating System** | **Internet Explorer 6** | **Internet Explorer 7** | **Internet Explorer 8** | **Internet Explorer 9** | **Internet Explorer 10** | **Other Browsers** |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |

### Default Web Browsers Configured

The default web browser is the browser that launches automatically when the computer user wants to view web content. In most cases, users launch the default browser to access external websites and web applications deployed in your organization. This section describes default system web browsers configured in your environment.

Figure 2. Default System Web Browsers on All Inventoried Machines

Table 3 shows that NAME is the most widely used default system browser in your environment, running on # computers. When multiple versions of browsers are deployed in an environment, you may incur additional engineering and support costs to ensure web applications work consistently across all web browsers. You can save money and improve productivity by standardizing to a single version of the default browser.

Table 3. Default System Browsers on All Inventoried Machines

| **Default Browser** | **Computer Count** | **Percentage** |
| --- | --- | --- |
|  |  |  |

### Web Browsers Deployed on Windows XP

This assessment found # computers running the Windows XP operating system in your environment.

Figure 3. Installed Browsers on Computers Running Windows XP

Your organization has # computers running Windows XP. Of these, # computers are capable of running Windows 7. The accompanying *Internet Explorer Migration Assessment* *Report* provides in-depth information about which machines can run Windows 7. Table 4 provides details about web browsers deployed on computers running Windows XP.

Table 4. Installed Browsers on Computers Running Windows XP

| **Browser Version** | **Computer Count** | **Percentage** |
| --- | --- | --- |
|  |  |  |

### ActiveX Controls Summary

This section provides a summary of the ActiveX controls that Internet Explorer uses. ActiveX controls add interactivity and business functionality to a web page. Internet Explorer can have Active X controls installed and may load additional ActiveX controls specified in a web page through HTML markup. Table 5 provides a summary of the ActiveX controls deployed in your environment.

Table 5. Prevalent ActiveX Controls Installed

| **Name** | **Version** | **Install Count** |
| --- | --- | --- |
|  |  |  |

Table 5 shows up to 25 ActiveX controls based on their installation.

### Internet Explorer Browser Helper Objects

This section provides a summary of Browser Helper Objects (BHO) that Internet Explorer uses. Browser Helper Objects are in-process COM objects loaded within the browser. If your organization has developed BHOs for prior versions of Internet Explorer, your engineering team must ensure they are compatible and function as expected with the latest version of Internet Explorer. Table 6 summarizes the prevalent BHOs installed in your network.

Table 6. Prevalent Browser Helper Objects Installed

| **Name** | **Version** | **Install Count** |
| --- | --- | --- |
|  |  |  |

Table 6 shows up to 25 BHOs based on their installation.

### Internet Explorer Toolbars

This section provides a summary of custom toolbars configured in Internet Explorer. Table 7 provides the details for up to 25 top toolbars found in your environment during the inventory.

Table 7. Prevalent Toolbars Installed

| **Name** | **Version** | **Install Count** |
| --- | --- | --- |
|  |  |  |

## Operating System Summary

Table 8 shows the client operating systems that the assessment found in your environment and indicates the number of installations for each operating system.

Table 8. Operating Systems Found by the Assessment

| **Operating System Name and Version** | **Computer Count** | **Percentage** |
| --- | --- | --- |
|  |  |  |

## Application Summary

Table 9 lists up to 25 of the most commonly installed applications on the client computers in your network and indicates the number of installations.

**Table 9. Prevalent Software Installed on the Network**

| **Name** | **Version** | **Installations** |
| --- | --- | --- |
|  |  |  |

In addition to evaluating the hardware readiness of your organization’s computers, you should evaluate the application compatibility of the software that your organization uses. Microsoft Application Compatibility Toolkit can help you do this. The toolkit will identify all of the applications that are currently in use in your environment and determine their compatibility with Windows 7. For more information, see [Microsoft Application Compatibility Toolkit](http://go.microsoft.com/fwlink/?LinkID=82101) at http://go.microsoft.com/fwlink/?LinkID=82101.

# **Next Steps**

Now that you have the results of the Internet Explorer Migration Assessment, you can determine the investment, scope, and effort required to deploy Windows 7 and the latest version of Internet Explorer in your organization.

To prepare for your deployment of Internet Explorer 9, you will need to do the following:

1. Decide which client computers you intend to upgrade to Windows 7 Enterprise and Internet Explorer 9.
2. Determine web application compatibility by using one or more tools provided by Microsoft:
3. **Microsoft Expression Web SuperPreview:** Allows you to see rendering differences between different versions of Internet Explorer. Download the SuperPreview utility and review the blog post for more information. To download the tool, visit <http://go.microsoft.com/fwlink/?LinkID=202524>.
4. **Internet Explorer Compatibility Test Tool (IECTT):** Lets you diagnose issues in web applications running on either Internet Explorer 7 or Internet Explorer 8 (depending on which version is running on the computer you use to test it on). The tool displays issues in real time, and optionally uploads results to an Application Compatibility Toolkit (ACT) database. The results include details about possible compatibility issues, and links for more information. To learn about this and other related Developers Tools, see

<http://go.microsoft.com/fwlink/?LinkID=202523>.

1. **Internet Explorer 9 Developer Tools:** These come with every installation of Internet Explorer 9. They enable website developers to debug Microsoft Jscript® quickly, investigate a behavior specific to Internet Explorer, or to iterate rapidly to prototype a new design or try out solutions on the fly. To get started with the tools, press **F12** or click **Developer Tools** on the **Tools** menu.
2. **Microsoft Security Compliance Manager (SCM):** Provides you with thoroughly tested security baselines that can be used to implement more secure configurations for computers running Windows® Internet Explorer® 8 in your environment. It provides an end-to-end solution to help you plan, deploy, and monitor your baselines. With SCM you can export multiple formats—including XLS, Group Policy objects (GPOs), Desired Configuration Management (DCM) packs, or Security Content Automation Protocol (SCAP)—to automate baseline deployment and check for configuration drift. To learn more about SCM, visit <http://go.microsoft.com/fwlink/?LinkId=113940>.
3. **P2V Migration for Software Assurance:** P2V Migration for Software Assurance uses the Microsoft Deployment Toolkit and Sysinternals Disk2VHD to convert a user’s existing Windows XP or newer client environment to a virtual hard disk then automates the delivery of an updated and personalized Windows 7 operating system containing a virtual machine with the user’s previous Windows environment, applications and Web browser. To download the tool, visit <http://go.microsoft.com/fwlink/?LinkID=205055>.
4. **Internet Explorer 9 Deployment:** Review Internet Explorer 9 Deployment Guide, visit <http://go.microsoft.com/fwlink/?LinkID=217944>, and Internet Explorer 9 FAQ for IT Professionals, visit <http://go.microsoft.com/fwlink/?LinkID=217945>.
5. Decide how you will acquire the software licenses, such as through Volume Licensing.
6. Start deployment. Microsoft provides the Microsoft Deployment Toolkit (MDT) to help you plan and migrate to Windows 7 Enterprise.

MDT provides comprehensive guidance and tools to optimize your deployment of desktops running Windows 7 Enterprise. The desktop deployment tools that MDT provides are suitable for small to large organizations. Smaller organizations might use the Lite Touch Installation (LTI) method, whereas large organizations that use software distribution tools might choose the Zero Touch Installation (ZTI) method. To download the toolkit, see the Microsoft Deployment Toolkit 2010 site at <http://go.microsoft.com/fwlink/?LinkId=105599>.

# **Appendix A: Windows 7 Enterprise Hardware Requirements**

You should be able to upgrade client computers in your environment that are running Windows Vista to Windows 7 Enterprise with little difficulty. To determine definitively whether your client computers are ready for Windows 7, you can compare the results presented on the **Client Assessment** worksheet of the Windows 7 Assessment workbook with the hardware requirements in Table A-1.

To run Windows 7 Enterprise, the client computer requires at least:

* 1 GHz 32-bit (x86) or 64-bit (x64) processor
* 1 GB of system memory (32-bit)/ 2 GB (64-bit)
* 16 GB available disk space (32-bit)/20 GB (64-bit)
* DirectX® 9 graphics processor with Windows Display Driver Model (WDDM) 1.0 or higher driver

Table A-1. Microsoft Recommended Configuration

| **Property** | **Microsoft Recommended x86** | **Microsoft Recommended x64** |
| --- | --- | --- |
| Processor (GHz) | 1 | 1 |
| Memory (MB) | 1024 | 2048 |
| Free Disk (GB) | 16 | 20 |
| Optical Drive | true | true |
| Video | true | true |
| Audio | true | true |

# **Appendix B: Internet Explorer Migration Assessment Report Worksheets**

The Internet Explorer Migration Assessment Report workbook provides the following:

* **Overview.** An overview of the inventoried web browsers.
* **Web Browser Summary.** A list of all web browsers found on client computers.
* **Web Browser Details.** A list of all web browser versions found on client computers, broken out by operating system.
* **Client Details.** Details on the web browsers and controls found on each client machine.
* **Add-on Details.** Details on all installed web browser controls for Internet Explorer.