

Purpose

This checklist is provided to help customers prepare their systems to meet the system requirements for a successful eControl 3 deployment. This checklist is designed for single Active Directory Forest and single Exchange version systems. If there is more than one AD Forest or more than one version of Exchange server installed in an Exchange system, please contact Omni Technical Support for additional assistance.

Mandatory and Optional Requirements

Mandatory requirements must be met. Certain system requirements are optional and only need to be met if eControl will be used to manage those resources. Optional requirements are indicated in the checklist. eControl system requirements focus on four types of systems:

- **eControl Host Server** – will host the eControl server and website.
- **eControl Remote Agent Server** – will host the eControl Connection Agent Service to facilitate connections between eControl Host Server and the Exchange system.
- **Home Folder Host Server(s)** – those Windows servers that host user home folders.
- **Exchange Server** – those Windows server(s) hosting Exchange Mailbox servers.

eControl Host Server - MANDATORY	☑
<p>Windows Server 2003, 2003 R2, 2008, 2008 R2 with latest Microsoft Updates:</p> <ul style="list-style-type: none"> • OS Edition: Standard or Enterprise edition <ul style="list-style-type: none"> ○ AD Domain 2008 – home folders hosted on Windows 2008 servers, install eControl on Windows 2008 server. ○ AD Domain 2003 – home folders hosted on Windows 2003 servers, install eControl on Windows 2003 server. • Webserver on Windows 2003: IIS 6 is installed. Ensure that ASP .NET v2.0.50727 web service extension is enabled in IIS Manager. • Webserver on Windows 2008: IIS 7 is installed. Ensure that the following ‘Role Services’ are installed (in addition to the standard IIS roles): <ul style="list-style-type: none"> ○ Under ‘Application Development’ - ‘ASP .NET’ role. ○ Under ‘Security’ - the applicable ‘Authentication’ role for your. ○ Under ‘Management Tools’ - ‘IIS 6 Management Compatibility’ and all child roles. • Minimum Disk Space: 500 MB disk space (in addition to server OS requirements) • Minimum RAM: 256 MB RAM (in addition to server OS requirements) • Minimum CPU: Intel P4 / AMD Athlon XP (x86 or x64) • Software Requirements: <ul style="list-style-type: none"> ○ Microsoft .Net 3.5 SP1 ○ Windows Powershell 1.0 (Windows 2003) or Powershell 2.0 (Windows 2008) ○ Silverlight (optional for eControl Administrator Dashboard) 	☐
<p>Do not install eControl Host Server on a SharePoint (WSS or MOSS) server or other dedicated application server utilizing IIS. It is not recommended to install eControl Host Server on a Domain Controller.</p>	☐

eControl Host Server – Active Directory - MANDATORY		<input checked="" type="checkbox"/>
Disable IE Enhanced Security (recommended).		<input type="checkbox"/>
Create an eControl service account as a local account and make it a member of the local “Administrators” group. Ensure that the username and password is the same as the eControl service accounts created in each AD domain. Set the password to not expire.		<input type="checkbox"/>
All versions of Active Directory in Mixed or Native mode supported		<input checked="" type="checkbox"/>
eControl Host Server can be installed on a dedicated stand-alone or member Windows server: <ul style="list-style-type: none"> If eControl will manage multiple Active Directory domains in the same Forest, install the eControl server on a top-level domain member server that will be least impacted by Domain GPOs (best practise). If eControl will manage a single Active Directory domain, install the eControl server on a member server in that domain. If eControl will manage Active Directory domains from multiple Forests, contact Omni Technical Support. 		<input type="checkbox"/>
Create an “eControl” service account in each AD domain being managed by eControl and make it a member of the “Domain Admins” and “Domain Users” groups. The Domain User group should be the primary group. Set the password to not expire.		<input type="checkbox"/>

eControl Host Server – SSL Certificates for Secure LDAP Authentication - MANDATORY		<input checked="" type="checkbox"/>
eControl must establish a SSL secured LDAP connection between the eControl Host Server and the Domain Controller(s). This is a Microsoft security requirement that enables Active Directory password management (password changes) to be made in SSL encrypted mode. Use one of the two following strategies:		
The recommended means to enable SSL support is ensure that an Enterprise Certificate Authority (CA) server is installed and functioning in each Active Directory Forest (http://technet.microsoft.com/en-ca/library/cc700804.aspx), and that Domain Controller servers have been issued a Server certificate from the Enterprise CA using domain controller autoenrollment policy: <ul style="list-style-type: none"> If the eControl Host Server is installed on a member server in the same Active Directory Forest as the Domain Controller server(s) being connected to, SSL certificates will be automatically configured and no additional setup is required: If the eControl Host Server is installed on a stand-alone server, export a trusted root certificate from each Enterprise CA and import it as a trusted root certificate on the stand-alone server hosting the eControl Host Server. 		<input type="checkbox"/>
OR Use 3 rd party public CA to enable LDAP over SSL - http://support.microsoft.com/kb/321051		<input type="checkbox"/>

Home Folder Support – (Only Configure if Required)		<input checked="" type="checkbox"/>
<p>eControl uses WMI to manage home folders and network shares. User home folder support requires additional configuration on the eControl Host Server which is normally completed as part of the initial eControl Host Server installation and configuration.</p> <p>On the Home Folder Host Server(s) configure the eControl service account:</p> <ul style="list-style-type: none"> • If user home directories are hosted on Windows member server, create a local user account that uses the same name and password as the Active Directory eControl Service Account (this will be the local eControl service account). Set the password to never expire and add this account to the local "Administrators" group. • If user home directories are hosted on Domain Controller servers, add the Active Directory "eControl" service account to the built-in "Administrators" group. 	<input type="checkbox"/>	
<p>On the Home Folder Host Server(s) configure share and file system permissions - Admins can use any share/security permissions plan that meets corporate security policy. The eControl service account must be granted full control security permissions to the parent "Home" folder.</p>	<input type="checkbox"/>	
Exchange Support – (Only Configure if Required)		<input checked="" type="checkbox"/>
<p>The eControl host server must connect to a supported Exchange system via an Omni Connection Agent service installed on a Windows 2003/2008 server that then acts as the eControl Agent Server. The Omni Connection Agent service can be installed on the eControl Host Server, an Exchange Mailbox server, a domain controller or a server which meets the requirements.</p> <p>Windows Server 2003, 2003R2, 2008, 2008R2 with latest Microsoft Updates:</p> <ul style="list-style-type: none"> • OS Edition: Standard or Enterprise edition • Minimum Disk Space: 500 MB disk space (in addition to server OS requirements) • Minimum RAM: 256 MB RAM (in addition to server OS requirements) • Minimum CPU: Intel P4 / AMD Athlon XP (x86 or x64) • Common Requirements: <ul style="list-style-type: none"> ○ Microsoft .Net 3.5 SP1 ○ Windows Powershell 1.0 (for Exchange 2003 or 2007) ○ Windows Powershell 2.0 (for Exchange 2010) ○ Exchange Management Tools for the version of Exchange connecting to ○ The AD "eControl" service account must be added to the group(s) necessary to create and manage Exchange mailboxes. Recommend logging onto this server as the "eControl" service account and manually create/manage an exchange mailbox. 	<input type="checkbox"/>	
<p>Minimum Microsoft Exchange requirements to support eControl (check applicable version):</p> <ul style="list-style-type: none"> • Exchange 2003 - Minimum Exchange 2003 SP1+ is required. • Exchange 2007 - Minimum Exchange 2007 SP1 with Rollup 1+ is required. • Exchange 2010 - Minimum Exchange 2010 with latest updates is required. 	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	



eControl 3.5 Requirements Checklist for Active Directory & Exchange

Firewall Support – (Configure as Required)		<input checked="" type="checkbox"/>
Ensure that any firewalls between the eControl Host Server and the all servers that the eControl Host Server will connect with are open for:		
<ul style="list-style-type: none">• TCP Port 636 In/Out to support SSL for password management with each Domain Controller.		<input type="checkbox"/>
<ul style="list-style-type: none">• TCP Port 7190 In/Out to support connection between the eControl host server and the Exchange server where the eControl Remote Connection Agent is installed.		<input type="checkbox"/>
<ul style="list-style-type: none">• TCP Port 135 In/Out to support WMI connections between the eControl host server and Windows servers hosting home directories.		<input type="checkbox"/>