



# .NET FRAMEWORK SECURITY CHECKLIST

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Developed by DISA for the DOD

# TABLE OF CONTENTS

1. INTRODUCTION	4
1.1 Overview  1.2 Organization of the Checklist  1.3 Supported Versions  1.4 Review Method  1.5 Referenced Documents	5 5
2NET FRAMEWORK SRR RESULTS REPORT	
2.1 SITE INFORMATION	
3NET FRAMEWORK OVERVIEW	17
3.1 ASSEMBLIES 3.2 EVIDENCE 3.3 PERMISSION SETS 3.4 CODE GROUP 3.5 DETERMINING EFFECTIVE PERMISSIONS	17 17 17
4. CHECKLIST INSTRUCTIONS	19
4.1 .NET FRAMEWORK VULNERABILTY TYPES 4.2 VERSIONS OF .NET FRAMEWORK INSTALLED	
5NET SECURITY FRAMEWORK CHECKS AND PROCEDURES	
5.1 APPNET0001: FILE IO PERMISSION  5.2 APPNET0003: ISOLATED STORAGE PERMISSION  5.3 APPNET0004: USER INTERFACE PERMISSION (WINDOWING)  5.4 APPNET0005: USER INTERFACE PERMISSION (CLIPBOARD)  5.5 APPNET0006: REFLECTION PERMISSION  5.6 APPNET0007: PRINTING PERMISSION  5.7 APPNET0008: DNS PERMISSION  5.8 APPNET0009: SOCKET ACCESS PERMISSION	
5.9 APPNET0010: Web Access Permission	/6

	5.10 APPNET0011:	MESSAGE QUEUE PERMISSION	77
	5.11 APPNET0012:	SERVICE CONTROLLER PERMISSION	78
	5.12 APPNET0013:	DATABASE PERMISSION	80
		SECURITY PERMISSION (EXTEND INFRASTRUCTURE)	
	5.14 APPNET0015:	SECURITY PERMISSION (ENABLE REMOTING CONFIGURATION)	82
	5.15 APPNET0016:	SECURITY PERMISSION (ENABLE SERIALIZATION FORMATTER)	83
	5.16 APPNET0017:	SECURITY PERMISSION (ENABLE THREAD CONTROL)	85
	5.17 APPNET0018:	SECURITY PERMISSION (ALLOW PRINCIPAL CONTROL)	86
	5.18 APPNET0019:	SECURITY PERMISSION (ENABLE ASSEMBLY EXECUTION)	87
		SECURITY PERMISSION (SKIP VERIFICATION)	
	5.20 APPNET0021:	SECURITY PERMISSION (ALLOW CALLS TO UNMANAGED ASSEMBLIES)	90
		SECURITY PERMISSION (ALLOW POLICY CONTROL)	
	5.22 APPNET0023:	SECURITY PERMISSION (ALLOW DOMAIN POLICY CONTROL)	92
	5.23 APPNET0024:	SECURITY PERMISSION (ALLOW EVIDENCE CONTROL)	93
	5.24 APPNET0025:	SECURITY PERMISSION (ASSERT ANY PERMISSION THAT HAS BEEN GRANTED	95 (
		PERFORMANCE COUNTER PERMISSION	
		ENVIRONMENT VARIABLES PERMISSION	
	5.27 APPNET0028:	EVENT LOG PERMISSION	98
		REGISTRY PERMISSION	
		DIRECTORY SERVICES PERMISSION	
		No Strong Name Verification	
		FIRST MATCH CODE GROUPS	
		FILE CODE GROUPS, NET CODE GROUPS	
		LEVEL FINAL CODE GROUP ATTRIBUTE	
		ZONE MEMBERSHIP CONDITION	
		ADMINISTERING CAS POLICY	
	5.36 APPNET0046:	ADMINISTERING THE WINDOWS ENVIRONMENT FOR TEST ROOT CERTIFICATE	
		ADMINISTERING THE WINDOWS ENVIRONMENT FOR EXPIRED CERTIFICATES.	
		PUBLISHER MEMBERSHIP CONDITION	
		Administering the Windows Environment for Revoked Certificates	
		ADMINISTERING THE WINDOWS ENVIRONMENT FOR UNKNOWN CERTIFICATE	
	STATUS		110
		ADMINISTERING THE WINDOWS ENVIRONMENT FOR TIME STAMPED	
		ATION	
		STRONG NAME MEMBERSHIP CONDITION	
		ADMINISTERING CAS POLICY FOR GROUP NAMES	
		ADMINISTERING CAS POLICY AND POLICY CONFIGURATION FILE BACKUPS	
		REMOTING SERVICES AUTHENTICATION AND ENCRYPTION	
		Unsupported .Net Framework Versions	
6	VMS PROCESS A	ND PROCEDURES	116
		STRATOR	
	6.7 REVIEWED		116

# LIST OF TABLES

Table 1 – Referenced Documents	5
Table 2 - System Information	
Table 3 - Summary of .Net Framework SRR Findings By Category	
Table 4Net Framework Vulnerabilty Types	
Table 5 - Default Installation Findings	
Table 6 - Location of Configuration Files	
Table 7 - Software Publishing State Value Table	

#### 1. Introduction

#### 1.1 Overview

The .NET Framework Security Readiness Review (SRR) targets conditions that undermine the integrity of security, contribute to inefficient security operations and administration, or may lead to interruption of production operations. Additionally, the review ensures the site has properly installed and implemented the .NET environment and that it is being managed in a way that is secure, efficient, and effective. The items reviewed are based the NSA guide, *Guide to Microsoft .NET Framework Security*. The results of the review should be recorded in the SRR Results section with the following status designations: F- Finding, N/F- Not A Finding, N/A- Not Applicable, MR -Manual Review, or NR – Not Reviewed.

DISA Field Security Operations has assigned a level of urgency to each finding based on Chief Information Officer (CIO) established criteria for certification and accreditation. All findings are based on regulations and guidelines. All findings require correction by the host organization. Category I findings are any vulnerabilities that provide an attacker immediate access into a machine, super user access, or access that bypasses a firewall. Category II findings are any vulnerabilities that provide information that has a high potential of giving access to an intruder. Category III findings are any vulnerabilities that provide information that potentially could lead to compromise.

**NOTE:** Security patches required by the DOD IAVM process are reviewed during an operating system security review. Information for security patch compliance is available in Appendix A of this .Net Framework Security Checklist.

#### 1.2 Organization of the Checklist

The .NET Framework Security Checklist is composed of five major sections and three appendices. The organizational breakdown proceeds as follows:

Section 1	Introduction
	This section contains summary information about the sections and appendices that comprise the .NET Framework Security Checklist, and defines its scope. Supporting documents consulted are listed in this section.
Section 2	.NET SRR Result Report
	This section is the matrix that allows the reviewer to document vulnerabilities discovered during the SRR process. This section is used for a .NET Framework Security review.
S 4: 2	NET E 1 O '
Section 3	.NET Framework Overview

	This section describes the components of the .Net Framework architecture and explains their relationships.
Section 4	Checklist Instructions
	This section gives reviewers more detailed information about
	conducting the review. Sample configuration information and
	default configurations information are provided. Instructions
	specific to conducting reviews on default installations of the .Net
	Framework.
Section 5	.NET Checklist Procedures
	This section documents the procedures that instruct the reviewer on how to perform an SRR using the manual procedures, and how to interpret the resulting information for vulnerabilities. Each procedure maps to a specific vulnerability listed in Section 2.
Section 6	VMS Process and Procedures
	This section documents the procedures used for VMS.

#### 1.3 Supported Versions

The vulnerabilities discussed in Section 5 of this document are applicable to .NET Framework 1.0, 1.1, 2.0, 3.0 and 3.5

#### 1.4 Review Method

To perform a successful Security Readiness Review (SRR), a manual process must be employed. There are currently no automated tools to check for compliance with this checklist.

Since each version of the .NET Framework is configured separately a SRR must be performed against each version of the .NET framework that is installed on the system. Refer to Section 4.2 of this document for instructions on determining which versions of the .NET Framework are installed on the system.

#### 1.5 Referenced Documents

The following table enumerates the documents and resources consulted:

Date	<b>Document Description</b>
22 Sep 2004	Guide to Microsoft .NET Framework Security, NSA SNAC, v1.4
21 Dec 2006	Guide to Microsoft .NET Framework 2.0 Security

**Table 1 – Referenced Documents** 

# 2. .NET Framework SRR Results Report

# Unclassified UNTIL FILLED IN CIRCLE ONE FOR OFFICIAL USE ONLY (mark each page) CONFIDENTIAL and SECRET (mark each page and each finding)

### Classification is based on classification of system reviewed:

Unclassified System = FOUO Checklist Confidential System = CONFIDENTIAL Checklist Secret System = SECRET Checklist Top Secret System = SECRET Checklist

This checklist becomes effective September 30, 2005

Reviewer:		Date:
System:		Type of Review (Remote, Sample, Full):
Finding Totals:	<b>Comments:</b>	
Category II: Category III:		
Total:		
2.1 Site Information Site:		
System Administrator Information: Name:		
E-mail Address:	DCM.	
Phone # (Commercial): ( )	DSN:	
IAO Information: Name:		
E-Mail Address		
Phone # (Commercial)	DSN:	

6

# 2.2 System Information

	System	Detail
System ID or Host Name		
Hardware Platform		
Operating System		
Operating System Version		
MAC Level		
Confidentiality Level		

**Table 2 - System Information** 

Summary of .Net Framework SRR Finding	s By Category	
Category	Total Possible Findings	Actual Findings
Category I	1	
Category II	37	
Category III	8	
Total Findings	46	

Table 3 - Summary of .Net Framework SRR Findings By Category

# (A=Completely Automated, MR = Partially Automated (Manual Review), NC=Can Be Automated, NR = Not Reviewed (Cannot be Automated) ).

Procedure Section #	Finding Informat	ion	Vulnerability I
Section #	Status	Finding Details	SDID/ Vulnerability Key
5.1	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The <i>File IO</i> permission is granted with Path Discovery. The <i>File IO</i> permission is granted with  unrestricted="true". The <i>File IO</i> permission is granted to unrestricted paths.	APPNET0001
5.2	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The Isolated Storage permission is granted with unrestricted="true".  The Isolated Storage permission is granted with allowed=Administrator Isolated Storage By User and is not monitored.  The Isolated Storage permission is granted with allowed=Assembly Isolation Storage By Roaming User and is not monitored.	APPNET0003
5.3	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The User Interface permission is granted with unrestricted="true".  The User Interface permission is granted with Window=AllWindowsandEvents.  An unauthorized User Interface permission with Windows=SafeTopLevelWindows is granted.	APPNET0004
5.4	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The <i>User Interface</i> permission is granted with <i>unrestricted="true"</i> .  The <i>User Interface</i> permission is granted with access other than <i>Clipboard=NoClipboard</i> .	APPNET0005
5.5	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The Reflection permission is granted with unrestricted="true".  The Reflection permission is granted with Flags="Member".  The Reflection permission is granted with Flags="Type" to software that is not a confirmed engineering tool or software interoperability service.	APPNET0006

<b>Brief Description</b>	CAT
File IO Permission	CAT III
Isolated Storage Permission	CAT III
User Interface Permission (Windowing)	CAT II
User Interface Permission (Clipboard)	CAT II
Reflection Permission	CAT III
	File IO Permission  Isolated Storage Permission  User Interface Permission (Windowing)  User Interface Permission (Clipboard)

Procedure Section #	Finding Informat	ion	Vulnerability Information		
Section #			SDID/ Vulnerability Key	<b>Brief Description</b>	CAT
5.6	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The <i>Printing</i> permission is granted with unrestricted="true".  The <i>Printing</i> permission is granted with Level=AllPrinting.	APPNET0007	Printing Permission	CAT III
5.7	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	<ul><li>□ Not a Finding</li><li>□ Not Applicable</li><li>to assemblies that do not originate within the local network.</li></ul>		DNS Permission	CAT II
5.8	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The <i>Socket</i> permission is granted with <i>unrestricted="true"</i> .  The <i>Socket</i> permission is granted to code that does not provide networking service.  The <i>Socket</i> permission is granted to code that originates from an external network.	APPNET0009	Socket Access Permission	CAT II
5.9	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The <i>Web</i> permission is granted with <i>unrestricted="true"</i> . The <i>Web</i> permission is granted to specific URLs that are not documented and approved for sharing data.	APPNET0010	Web Access Permission	CAT II
5.10	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The Message Queue permission is granted with unrestricted="true".  The Message Queue permission is granted with access=Administer to a queue that is not used by a confirmed administrative tool.  The Message Queue permission is granted with access=Browse to all queues code that is not a verified administrative tool.	APPNET0011	Message Queue Permission	CAT II
5.11	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The Service Controller permission is granted with unrestricted="true".  The Service Controller permission is granted to a service whose code is not documented as having the same level of trust and value as the service(s) itself.	APPNET0012	Service Controller Permission	CAT II

Procedure Section #	Finding Informati	ion	Vulnerability Information			
Section #	Status	Finding Details	SDID/ Vulnerability Key		CAT	
5.12	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	licable The database permission to specific providers is granted		Database Permission	CAT III	
5.13	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The Security permission is granted with unrestricted="true".  The Security permission is granted with Flags="Infrastructure" (Extend infrastructure) to any code that has not been verified as having complete control over message processing.	APPNET0014	Security Permission (Extend Infrastructure)	CAT II	
5.14	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The Security permission is granted with Flags="RemotingConfiguration" to code that is not highly trusted (has a strong name with a public key associated with a local entity) and that does not require network access.	APPNET0015	Security Permission (Enable Remoting Configuration)	CAT II	
5.15	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The Security permission is granted with Flags="SerializationFormatter" to code that is not authorized as an extension to the CLR's trusted library base.	APPNET0016	Security Permission (Enable Serialization Formatter)	CAT II	
5.16	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The Security permission is granted with Flags="ControlThread" to code that is not Fully Trusted (a member of the FullTrust permission set).	APPNET0017	Security Permission (Enable Thread Control)	CAT II	
5.17	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The Security permission is granted with Flags="ControlPrincipal" (Allow principal control) to code that is not documented as being as trusted as the most privileged system user account.	APPNET0018	Security Permission (Allow Principal Control)	CAT II	
5.18	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The Security permission is granted with Flags="Execution" (Allow assembly execution) to unauthorized code.	APPNET0019	Security Permission (Enable Assembly Execution)	CAT II	

UNCLASSIFIED 11

Procedure Section #	Finding Information		Vulnerability Information			
Section #	Status	Finding Details	SDID/ Vulnerability Key	Brief Description	CAT	
5.19	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed ☐ The Security permission is granted with Flags="Skip Verification" (Skip verification) to code that is not highly trusted (has a strong name with a public key associated with a trusted party).		APPNET0020	Security Permission (Skip Verification)	CAT II	
5.20	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	☐ Not a Finding Flags="UnmanagedCode" (Allow calls to unmanaged assemblies).		Security Permission (Allow Calls to Unmanaged Assemblies)	CAT II	
5.21	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The Security permission is granted with Flags="ControlPolicy" (Allow Policy Control) to code that is not a highly trusted (has a strong name with a public key associated with a local entity) administrative tool.	APPNET0022	Security Permission (Allow Policy Control)	CAT II	
5.22	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The Security permission is granted with Flags="ControlDomainPolicy" (Allow Domain Policy Control) to code that is not highly trusted (has a strong name with a public key associated with a local entity) and is not a custom Runtime Host application that implements organizational policy using the AppDomain CAS policy level or to code that does not require the dynamic launching of applications that are less trusted than itself.	APPNET0023	Security Permission (Allow Domain Policy Control)	CAT II	
5.23	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The Security permission is granted with Flags="ControlEvidence" (Allow Evidence Control) to code that is not highly trusted (has a strong name with a public key associated with a trusted entity) and has not been developed using secure coding techniques.	APPNET0024	Security Permission (Allow Evidence Control)	CAT II	
5.24	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The Security permission is granted with Flags="Assertion" (Assert any Permission that has been granted) to code that is not a highly trusted extension to the CLR base libraries.	APPNET0025	Security Permission (Assert any Permission that Has Been Granted)	CAT II	

Procedure Section #	Finding Information		Vulnerability Information		
Section #	Status	Finding Details	SDID/ Vulnerability Key	<b>Brief Description</b>	CAT
5.25	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The Performance Counter permission is granted with unrestricted="true" to non-default permission set.  The Performance Counter permission is granted to an unauthorized machine or category.  The Performance Counter permission is granted with Instrument or Administrator access to code that does not provide or administer monitoring.	APPNET0026	Performance Counter Permission	CAT III
5.26	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The Environment Variables permission is granted with unrestricted="true" to a non-default permission set.	APPNET0027	Environment Variables Permission	CAT II
5.27	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The <i>Event Log</i> permission is granted with <i>unrestricted="true"</i> to a non-default permission set assigned to code that is not used to monitor system and application events.	APPNET0028	Event Log Permission	CAT II
5.28	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The <i>Registry</i> permission is granted with <i>unrestricted="true"</i> to a non-default permission set. <i>Registry</i> permissions are granted to unauthorized code.	APPNET0029	Registry Permission	CAT II
5.29	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The Directory Services permission is granted with unrestricted="true" (Grant assemblies unrestricted access to all directory service paths is selected) to a non-default permission set.  The Directory Services permission specifies unauthorized service paths.  Write access to the Windows system directory is granted to code that is not a trusted administrative tool.  Browse access to the Windows system directory services (Active Directory/Global catalog, IIS Metabase) is granted to code that is not of local origin (with a strong name with a public key associated with a local entity).	APPNET0030	Directory Services Permission	CAT II

UNCLASSIFIED 13

Procedure Section #	ection # Status Finding Details SDID/ Vulnerability Key Brief Description		Information		
Section #			Vulnerability	Brief Description	CAT
5.30			APPNET0031	No Strong Name Verification	CAT II
5.31	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	Non-default First Match Code Groups are defined.	APPNET0032	First Match Code Groups	CAT II
5.32	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	File Code Groups have been manually added to a .config file.	APPNET0033	File Code Groups, Net Code Groups	CAT II
5.33	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	Unauthorized code groups are assigned the <i>LevelFinal</i> attribute.	APPNET0035	Level Final Code Group Attribute	CAT III
5.34	☐ Finding A non-default code group is assigned the <i>Zone</i> ☐ Not a Finding Membership Condition. ☐ Not Applicable ☐ Not Reviewed		APPNET0041	Zone Membership Condition	CAT II
5.35	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	CAS security is not enabled.	APPNET0045	Administering CAS Policy	CAT I
5.36	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The <i>Trust the Test Root</i> value is set to TRUE on a production system.	APPNET0046	Administering the Windows Environment for Test Root Certificates	CAT II

Procedure Section #	Finding Informat	ion	Vulnerability Information		
Section #	Status	Finding Details	SDID/ Vulnerability Key	Brief Description	CAT
5.37	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The <i>Use expiration date on certificates</i> value is set to FALSE on a production system.	APPNET0047	Administering the Windows Environment for Expired Certificates	CAT II
5.38	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	An unauthorized code group is assigned the <i>Publisher</i> Membership Condition.	APPNET0048	Publisher Membership Condition	CAT II
5.39	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The Check the revocation list value is set to FALSE.	APPNET0049	Administering the Windows Environment for Revoked Certificates	CAT II
5.40	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The Offline revocation server OK (Individual) is set to TRUE.  The Offline revocation server OK (Commercial) is set to TRUE.  The Java offline revocation server OK (Individual) is set to TRUE.  The Java offline revocation server OK (Commercial) is set to TRUE.	APPNET0050	Administering the Windows Environment for Unknown Certificate Status	CAT II
5.41	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The Invalidate version 1 signed objects is set to FALSE. The Check the revocation list on Time Stamp Signer is set to FALSE.	APPNET0051	Administering the Windows Environment for Time Stamped Certificate Revocation	CAT II
5.42	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	The <i>StrongName</i> condition type listed for a non-default code group does not use a DOD PKI or an authorized third-party certificate.	APPNET0052	Strong Name Membership Condition	CAT II

UNCLASSIFIED 15

Procedure Section #	Finding Informati	ion	Vulnerability Information			
Section #	Status	Finding Details	SDID/ Vulnerability Key	Brief Description	CAT	
5.43	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	Non-default code group names are not unique.	APPNET0054	Administering CAS Policy for Group Names	CAT III	
5.44	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	CAS policy and configuration files are not included as part of a reliable backup strategy.	APPNET0055	Administering CAS Policy and Policy Configuration File Backups	CAT II	
5.45	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	Applications assigned the <i>typefilterlevel="Full"</i> attribute do not require authentication and encryption.	APPNET0060	Remoting Services Authentication and Encryption	CAT II	
5.46	☐ Finding ☐ Not a Finding ☐ Not Applicable ☐ Not Reviewed	Verify the installed .Net Frameworks are still supported by Microsoft.	APPNET0061	Unsupported .Net Framework Versions	CAT II	

#### 3. .Net Framework Overview

Programs written for the .NET Framework execute with the credentials of the user account used to launch the program. As such these programs are constrained by any operating system security settings that may be in place. This is identical to the operation of any non .NET application. The additional restrictions that may be imposed through the .NET Framework are designed to further restrict .NET applications, providing an additional layer of protection.

The following components are used to establish which permissions are granted by the .NET Framework.

#### 3.1 Assemblies

An assembly is the .NET Frameworks' term for a program. An assembly may consist of multiple executables, DLLs, and libraries.

#### 3.2 Evidence

Evidence is information about an assembly. Evidence may be contained in the assembly itself or may be presented by the host. There are currently seven types of evidence in the .NET Framework. These evidence types are:

- o Application Directory the directory where the assembly resides.
- Hash a cryptographic hash of the assembly.
- Publisher The publisher of the application, based upon Authenticode signing of the assembly.
- o Site The site where the assembly originated. This is only valid when the assembly is executed directly from the site.
- o StrongName A cryptographic signing of the assembly.
- o URL The URL where the assembly originated. This is only valid when the assembly is executed directly from the URL.
- Zone The Internet Explorer Security Zone associated with the site of origin for the assembly.

#### 3.3 Permission Sets

Permission Sets are groups of permission that can be granted to .NET Assemblies. There are several default Permission Sets, and non-default Permission Sets may be created.

#### 3.4 Code Group

A code group is used to assign a Permission Set to an Assembly. Assemblies are placed into 1 or more Code Groups based upon the Evidence they present. As part of membership detection any membership conditions for parent code groups must also be met.

When performing an SRR of the .NET Framework it is not enough to simply evaluate the permissions assigned to a Permission Set to determine whether a vulnerability exists or not. Code Groups which are granted that permission set must be considered as part of the evaluation process to ensure that potentially dangerous permissions are not granted to unapproved assemblies.

For example: Access to the file system is one of the permissions that can be granted through a Permission Set. These permissions range from no access to the file system, to limited access to specific files or directories, to full access to the file system. A Permission Set that grants unrestricted access to the file system is not a vulnerability in and of itself. However if that Permission Set were granted to a Code Group whose membership condition was the Internet Zone, essentially granting full file system access to any program downloaded from the Internet, then this would be a vulnerability. The same Permission Set assigned to a Code Group whose membership is restricted by a Strong Name signed assembly, where the keys used for the signing are controlled by the site, would not be considered a vulnerability.

Note: In the example above, an Assembly that is granted unrestricted access to the file system would still be restricted by the File ACLS of the system.

#### **3.5 Determining Effective Permissions**

.NET Framework security policies can be defined at four levels: Enterprise, Machine, User, and Application Domain. Of these four, only the Enterprise, Machine, and User levels will be considered as part of the evaluation process. The configuration information for each level is stored in configuration files within each .NET Framework directory. There is currently no central management capability, so these files must be copied to every system in order for them to be effective.

Determining the effective permissions for a given assembly involves determining which code groups the assemblies belong to and combining all of the permission sets granted to the assembly to arrive at an effective permission set. Please refer to the NSA Guide to Microsoft .NET Framework Security, pages 66 – 71 for a detailed description of the rules and procedures used to determine the effective permission set.

#### 4. Checklist Instructions

This section details the procedures needed to perform a Security Readiness Review (SRR) of a .NET Framework installation. The .NET SRR is a manual process that uses the following tools: Microsoft .NET Framework Configuration Tools Code Access Security (CAS) Policy Tool caspol.exe, regedit.exe. These tools reside in the installations directory of .Net Framework.

#### 4.1 .Net Framework Vulnerabilty Types

The checklist is categorized with eleven different types of the vulnerabilites.

Permission Vulnerabilities	APPNET0001-APPNET0030
Strong Name Verification	APPNET031
Special Code Group Type	APPNET0032, APPNET0033, APPNET0035
Membership Conditions	APPNET0041, APPNET0048, APPNET0052
CAS Policy	APPNET045
Software Publishing Certificate	APPNET0046, APPNET0047, APPNET0049, APPNET0050, APPNET0051
Duplicate Code Group Name	APPNET0054
Backup Vulnerabitlities	APPNET0055
Remoting Services and Authentication	APPNET0060
Unsupported .Net Framework Versions	APPNET0061

Table 4 - .Net Framework Vulnerabilty Types.

#### 4.2 Versions of .Net Framework Installed

To determine which versions of .Net Framework are installed, search for all the Mscorlib.dll files in %systemroot%\Microsoft.NET\Framework. Click on each of the files and view properties and click Version tab to determine the version installed. If there is no Mscorlib.dll, there is no installed version of .Net Framework in that directory.

More specific information on determining versions of .Net Framework installed can be found at the following link. http://support.microsoft.com/kb/318785

#### 4.3 Default Installations of .Net

Most systems are not setup to perform .Net development. As a result most systems are installed with a default configuration of .Net Frameworks. A default installation of .Net is default configuration provided either when the operating system was first loaded or when the .Net Framework was loaded.

\*Note: Window 2003 has a default installation of .Net Framework 1.1 which cannot be removed.

**Default Code Group:** Code group that are installed by the default installations of .Net 1.0, 1.1, 2.0, 3.0 & 3.5.

**Non-Default Code Group:** Code group that is not part of the default installation of .Net. **Default Permission Set:** Permission set that is part of the default installation of .Net. **Non-Default Permission Set:** Permission set that is not part of the default installation of .Net.

If the system has a default installation of .Net then verify that default code groups and default permission sets against the list of default code groups and permission set in the following sections.

After a verifying the only default code groups and permissions sets exist, use the table below to mark the findings in for a default installation.

Vulnerability ID	Finding Status	Brief Description	CAT
APPNET0001	Not a Finding	File IO Permission	CAT III
APPNET0003	Not a Finding	Isolated Storage Permission	CAT III
APPNET0004	Not a Finding	User Interface Permission (Windowing)	CAT II
APPNET0005	Not a Finding	User Interface Permission (Clipboard)	CAT II
APPNET0006	Not a Finding	Reflection Permission	CAT III
APPNET0007	Not a Finding	Printing Permission	CAT III
APPNET0008	Not a Finding	DNS Permission	CAT II
APPNET0009	Not a Finding	Socket Access Permission	CAT II
APPNET0010	Not a Finding	Web Access Permission	CAT II
APPNET0011	Not a Finding	Message Queue Permission	CAT II
APPNET0012	Not a Finding	Service Controller Permission	CAT II
APPNET0013	Not a Finding	Database Permission	CAT III
APPNET0014	Not a Finding	Security Permission (Extend Infrastructure)	CAT II
APPNET0015	Not a Finding	Security Permission (Enable Remoting Configuration)	CAT II
APPNET0016	Not a Finding	Security Permission (Enable Serialization Formatter)	CAT II
APPNET0017	Not a Finding	Security Permission (Enable Thread Control)	CAT II
APPNET0018	Not a Finding	Security Permission (Allow Principal Control)	CAT II
APPNET0019	Not a Finding	Security Permission (Enable Assembly Execution)	CAT II
APPNET0020	Not a Finding	Security Permission (Skip Verification)	CAT II
APPNET0021	Not a Finding	Security Permission (Allow Calls to Unmanaged Assemblies)	CAT II
APPNET0022	Not a Finding	Security Permission (Allow Policy Control)	CAT II
APPNET0023	Not a Finding	Security Permission (Allow Domain Policy Control)	CAT II
APPNET0024	Not a Finding	Security Permission (Allow Evidence Control)	CAT II
APPNET0025	Not a Finding	Security Permission (Assert any Permission that Has Been Granted)	CAT II
APPNET0026	Not a Finding	Performance Counter Permission	CAT III
APPNET0027	Not a Finding	Environment Variables Permission	CAT II
APPNET0028	Not a Finding	Event Log Permission	CAT II
APPNET0029	Not a Finding	Registry Permission	CAT II
APPNET0030	Not a Finding	Directory Services Permission	CAT II
APPNET0031		No Strong Name Verification	CAT II

APPNET0032	Not a Finding	First Match Code Groups	CAT II
APPNET0033		File Code Groups, Net Code Groups	CAT II
APPNET0035	Not a Finding	Level Final Code Group Attribute	CAT III
APPNET0041	Not a Finding	Zone Membership Condition	CAT II
APPNET0045		Administering CAS Policy	CAT I
APPNET0046		Administering the Windows Environment for Test Root Certificates	CAT II
APPNET0047		Administering the Windows Environment for Expired Certificates	CAT II
APPNET0048	Not a Finding	Publisher Membership Condition	CAT II
APPNET0049		Administering the Windows Environment for Revoked Certificates	CAT II
APPNET0050		Administering the Windows Environment for Unknown Certificate Status	CAT II
APPNET0051		Administering the Windows Environment for Time Stamped Certificate Revocation	CAT II
APPNET0052	Not a Finding	Strong Name Membership Condition	CAT II
APPNET0054	Not a Finding	Administering CAS Policy for Group Names	CAT III
APPNET0055		Administering CAS Policy and Policy Configuration File Backups	CAT II
APPNET0060		Remoting Services Authentication and Encryption	CAT II
APPNET0061		Unsupported .Net Framework Versions	CAT II

**Table 5 - Default Installation Findings** 

\*Note: APPNET0031, APPNET0033, APPNET0045, APPNET0046, APPNET0047, APPNET0049, APPNET0050, APPNET0051, APPNET0055, APPNET0060 and APPNET0061 must still be reviewed.

#### 4.3.1 .Net Framework 1.0 Default Code Groups

C:\WINDOWS\Microsoft.NET\Framework\v1.0.3705\CasPol.exe -all -lg

Microsoft (R) .NET Framework CasPol 1.0.3705.6018 Copyright (C) Microsoft Corporation 1998-2001. All rights reserved.

Security is OFF Execution checking is ON Policy change prompt is ON

Level = Enterprise

Code Groups:

1. All code: FullTrust

Level = Machine

Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet 1.2.1. All code: Same site Web.
  - 1.2.2. All code: Same directory FileIO Read, PathDiscovery
- 1.3. Zone Internet: Nothing1.4. Zone Untrusted: Nothing1.5. Zone Trusted: Internet1.5.1. All code: Same site Web.

Level = User

Code Groups:

1. All code: FullTrust

Success.

#### 4.3.2 .Net Framework 1.1 Default Code Groups

C:\WINDOWS\Microsoft.NET\Framework\v1.1.4322\CasPol.exe -all -lg

Microsoft (R) .NET Framework CasPol 1.1.4322.573

Copyright (C) Microsoft Corporation 1998-2002. All rights reserved.

Security is OFF Execution checking is ON Policy change prompt is ON

Level = Enterprise

Code Groups:

1. All code: FullTrust

Level = Machine

Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web.
  - 1.2.2. All code: Same directory FileIO Read, PathDiscovery
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web.
- 1.4. Zone Untrusted: Nothing
- 1.5. Zone Trusted: Internet
  - 1.5.1. All code: Same site Web.

Level = User

Code Groups:

1. All code: FullTrust

Success

#### 4.3.3 .Net Framework 2.0, 3.0 & 3.5 Default Code Groups

C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727\CasPol.exe -all -lg

Microsoft (R) .NET Framework CasPol 2.0.50727.3053

Copyright (c) Microsoft Corporation. All rights reserved.

Security is ON Execution checking is ON Policy change prompt is ON

Level = Enterprise

Code Groups:

1. All code: FullTrust

Level = Machine

Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. Zone Trusted: Internet
- 1.5.1. All code: Same site Web
- 1.6. ApplicationDirectory: Nothing

Level = User

Code Groups:

1. All code: FullTrust

Success

#### 4.3.4 .Net Framework 1.0 Default Permission Sets

C:\WINDOWS\Microsoft.NET\Framework\v1.0.3705\CasPol.exe -all -lp Microsoft (R) .NET Framework CasPol 1.0.3705.6018 Copyright (C) Microsoft Corporation 1998-2001. All rights reserved. Security is OFF Execution checking is ON Policy change prompt is ON Level = Enterprise Named Permission Sets: 1. FullTrust (Allows full access to all resources) = <PermissionSet class="System.Security.NamedPermissionSet"</pre> version="1" Unrestricted="true" Name="FullTrust" Description="Allows full access to all resources"/> 2. SkipVerification (Grants right to bypass the verification) = <PermissionSet class="System.Security.NamedPermissionSet"</p> version="1" Name="SkipVerification" Description="Grants right to bypass the verification"> <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Flags="SkipVerification"/> </PermissionSet> 3. Execution (Permits execution) = <PermissionSet class="System.Security.NamedPermissionSet"</pre> version="1" Name="Execution" Description="Permits execution"> <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Flags="Execution"/> </PermissionSet>

4. Nothing (Denies all resources, including the right to execute) =

<PermissionSet class="System.Security.NamedPermissionSet"</pre>

version="1"

Name="Nothing"

Description="Denies all resources, including the right to execute"/>

```
5. LocalIntranet (Default rights given to applications on the local intranet) =
<PermissionSet class="System.Security.NamedPermissionSet"</p>
         version="1"
        Name="LocalIntranet"
        Description="Default rights given to applications on the local intranet">
 <IPermission class="System.Security.Permissions.EnvironmentPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Read="USERNAME"/>
 <IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Allowed="AssemblyIsolationByUser"
         UserQuota="9223372036854775807"
         Expiry="9223372036854775807"
         Permanent="True"/>
 <IPermission class="System.Security.Permissions.ReflectionPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Flags="ReflectionEmit"/>
 <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Flags="Assertion, Execution"/>
 <IPermission class="System.Security.Permissions.UIPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Net.DnsPermission, System, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"
         version="1"
         Level="DefaultPrinting"/>
 <IPermission class="System.Diagnostics.EventLogPermission, System, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1">
   <Machine name="."
        access="Instrument"/>
 /IPermission>
</PermissionSet>
```

6. Internet (Default rights given to internet applications) = <PermissionSet class="System.Security.NamedPermissionSet"</pre> version="1" Name="Internet" Description="Default rights given to internet applications"> <IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Access="Open"/> <IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Allowed="DomainIsolationByUser" UserQuota="10240"/> <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Flags="Execution"/> <IPermission class="System.Security.Permissions.UIPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Window="SafeTopLevelWindows" Clipboard="OwnClipboard"/> <IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a" version="1" Level="SafePrinting"/> </PermissionSet> 7. Everything (Allows unrestricted access to all resources covered by built-in permissions) = <PermissionSet class="System.Security.NamedPermissionSet"</pre> version="1" Name="Everything" Description="Allows unrestricted access to all resources covered by built-in permissions"> <IPermission class="System.Security.Permissions.EnvironmentPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true"/> <IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true"/> <IPermission class="System.Security.Permissions.FileIOPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true"/>

```
<IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Security.Permissions.ReflectionPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Security.Permissions.RegistryPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Flags="Assertion, UnmanagedCode, Execution, ControlThread, ControlEvidence,
ControlPolicy, SerializationFormatter, ControlDomainPolicy, ControlPrincipal,
ControlAppDomain, RemotingConfiguration, Infrastructure"/>
 <IPermission class="System.Security.Permissions.UIPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Net.DnsPermission, System, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Diagnostics.EventLogPermission, System, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Net.SocketPermission, System, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Net.WebPermission, System, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Diagnostics.PerformanceCounterPermission, System,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
```

```
<IPermission class="System.DirectoryServices.DirectoryServicesPermission,</p>
System.DirectoryServices, Version=1.0.3300.0, Culture=neutral,
PublicKevToken=b03f5f7f11d50a3a"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Messaging.MessageQueuePermission, System.Messaging,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.ServiceProcess.ServiceControllerPermission,</p>
System.ServiceProcess, Version=1.0.3300.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Data.OleDb.OleDbPermission, System.Data, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         AllowBlankPassword="False"
         Unrestricted="true"/>
 <IPermission class="System.Data.SqlClient.SqlClientPermission, System.Data,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         AllowBlankPassword="False"
         Unrestricted="true"/>
</PermissionSet>
Level = Machine
Named Permission Sets:
1. FullTrust (Allows full access to all resources) =
<PermissionSet class="System.Security.NamedPermissionSet"</pre>
        version="1"
        Unrestricted="true"
        Name="FullTrust"
        Description="Allows full access to all resources"/>
2. SkipVerification (Grants right to bypass the verification) =
<PermissionSet class="System.Security.NamedPermissionSet"</pre>
        version="1"
        Name="SkipVerification"
        Description="Grants right to bypass the verification">
 <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Flags="SkipVerification"/>
</PermissionSet>
```

3. Execution (Permits execution) = <PermissionSet class="System.Security.NamedPermissionSet"</p> version="1" Name="Execution" Description="Permits execution"> <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Flags="Execution"/> </PermissionSet> 4. Nothing (Denies all resources, including the right to execute) = <PermissionSet class="System.Security.NamedPermissionSet"</pre> version="1" Name="Nothing" Description="Denies all resources, including the right to execute"/> 5. LocalIntranet (Default rights given to applications on the local intranet) = <PermissionSet class="System.Security.NamedPermissionSet"</p> version="1" Name="LocalIntranet" Description="Default rights given to applications on the local intranet"> <IPermission class="System.Security.Permissions.EnvironmentPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Read="USERNAME"/> <IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true"/> <IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Allowed="AssemblyIsolationByUser" UserQuota="9223372036854775807" Expiry="9223372036854775807" Permanent="True"/> <IPermission class="System.Security.Permissions.ReflectionPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Flags="ReflectionEmit"/> <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Flags="Assertion, Execution"/> <IPermission class="System.Security.Permissions.UIPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

```
version="1"
         Unrestricted="true"/>
 <IPermission class="System.Net.DnsPermission, System, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"
         version="1"
         Level="DefaultPrinting"/>
 <IPermission class="System.Diagnostics.EventLogPermission, System, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1">
   <Machine name="."
        access="Instrument"/>
 /IPermission>
</PermissionSet>
6. Internet (Default rights given to internet applications) =
<PermissionSet class="System.Security.NamedPermissionSet"</p>
        version="1"
        Name="Internet"
        Description="Default rights given to internet applications">
 <IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Access="Open"/>
 <IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Allowed="DomainIsolationByUser"
         UserQuota="10240"/>
 <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Flags="Execution"/>
 <IPermission class="System.Security.Permissions.UIPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Window="SafeTopLevelWindows"
         Clipboard="OwnClipboard"/>
 <IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"
         version="1"
         Level="SafePrinting"/>
</PermissionSet>
```

7. Everything (Allows unrestricted access to all resources covered by built-in permissions) =

```
<PermissionSet class="System.Security.NamedPermissionSet"</pre>
        version="1"
        Name="Everything"
        Description="Allows unrestricted access to all resources covered by built-in
permissions">
 <IPermission class="System.Security.Permissions.EnvironmentPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Security.Permissions.FileIOPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Security.Permissions.ReflectionPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Security.Permissions.RegistryPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Flags="Assertion, UnmanagedCode, Execution, ControlThread, ControlEvidence,
ControlPolicy, SerializationFormatter, ControlDomainPolicy, ControlPrincipal,
ControlAppDomain, RemotingConfiguration, Infrastructure"/>
 <IPermission class="System.Security.Permissions.UIPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Net.DnsPermission, System, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"
         version="1"
         Unrestricted="true"/>
```

```
<IPermission class="System.Diagnostics.EventLogPermission, System, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Net.SocketPermission, System, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Net.WebPermission, System, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Diagnostics.PerformanceCounterPermission, System,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.DirectoryServices.DirectoryServicesPermission,</p>
System.DirectoryServices, Version=1.0.3300.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Messaging.MessageQueuePermission, System.Messaging,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.ServiceProcess.ServiceControllerPermission,</p>
System.ServiceProcess, Version=1.0.3300.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Data.OleDb.OleDbPermission, System.Data, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         AllowBlankPassword="False"
         Unrestricted="true"/>
 <IPermission class="System.Data.SqlClient.SqlClientPermission, System.Data,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         AllowBlankPassword="False"
         Unrestricted="true"/>
</PermissionSet>
Level = User
Named Permission Sets:
```

33

1. FullTrust (Allows full access to all resources) =

```
<PermissionSet class="System.Security.NamedPermissionSet"</pre>
         version="1"
         Unrestricted="true"
         Name="FullTrust"
         Description="Allows full access to all resources"/>
2. SkipVerification (Grants right to bypass the verification) =
<PermissionSet class="System.Security.NamedPermissionSet"</pre>
         version="1"
         Name="SkipVerification"
         Description="Grants right to bypass the verification">
 <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib.</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Flags="SkipVerification"/>
</PermissionSet>
3. Execution (Permits execution) =
<PermissionSet class="System.Security.NamedPermissionSet"</pre>
         version="1"
         Name="Execution"
         Description="Permits execution">
 <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Flags="Execution"/>
</PermissionSet>
4. Nothing (Denies all resources, including the right to execute) =
<PermissionSet class="System.Security.NamedPermissionSet"</p>
         version="1"
         Name="Nothing"
         Description="Denies all resources, including the right to execute"/>
5. LocalIntranet (Default rights given to applications on the local intranet) =
<PermissionSet class="System.Security.NamedPermissionSet"</pre>
         version="1"
         Name="LocalIntranet"
         Description="Default rights given to applications on the local intranet">
 <IPermission class="System.Security.Permissions.EnvironmentPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Read="USERNAME"/>
 <IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
```

```
<IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Allowed="AssemblyIsolationByUser"
         UserQuota="9223372036854775807"
         Expiry="9223372036854775807"
         Permanent="True"/>
 <IPermission class="System.Security.Permissions.ReflectionPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Flags="ReflectionEmit"/>
 <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Flags="Assertion, Execution"/>
 <IPermission class="System.Security.Permissions.UIPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Net.DnsPermission, System, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"
         version="1"
         Level="DefaultPrinting"/>
 <IPermission class="System.Diagnostics.EventLogPermission, System, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1">
   <Machine name="."
        access="Instrument"/>
 </PermissionSet>
6. Internet (Default rights given to internet applications) =
<PermissionSet class="System.Security.NamedPermissionSet"</pre>
        version="1"
        Name="Internet"
        Description="Default rights given to internet applications">
 <IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Access="Open"/>
 <IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Allowed="DomainIsolationByUser"
```

```
UserQuota="10240"/>
```

<IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Flags="Execution"/>

<IPermission class="System.Security.Permissions.UIPermission, mscorlib,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Window="SafeTopLevelWindows"

Clipboard="OwnClipboard"/>

<IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"

version="1"

Level="SafePrinting"/>

</PermissionSet>

7. Everything (Allows unrestricted access to all resources covered by built-in permissions) = <PermissionSet class="System.Security.NamedPermissionSet"

version="1"

Name="Everything"

Description="Allows unrestricted access to all resources covered by built-in permissions">

<IPermission class="System.Security.Permissions.EnvironmentPermission, mscorlib,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Security.Permissions.FileIOPermission, mscorlib,</pre>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Security.Permissions.ReflectionPermission, mscorlib,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Security.Permissions.RegistryPermission, mscorlib,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Security.Permissions.SecurityPermission, mscorlib, Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"</p>

version="1"

Flags="Assertion, UnmanagedCode, Execution, ControlThread, ControlEvidence,

ControlPolicy, SerializationFormatter, ControlDomainPolicy, ControlPrincipal,

ControlAppDomain, RemotingConfiguration, Infrastructure"/>

<IPermission class="System.Security.Permissions.UIPermission, mscorlib,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Net.DnsPermission, System, Version=1.0.3300.0,</p>

Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"

version="1"

Unrestricted="true"/>

<IPermission class="System.Diagnostics.EventLogPermission, System, Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Net.SocketPermission, System, Version=1.0.3300.0,</p>

Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Net.WebPermission, System, Version=1.0.3300.0,</p>

Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Diagnostics.PerformanceCounterPermission, System,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.DirectoryServices.DirectoryServicesPermission,"</pre>

System.DirectoryServices, Version=1.0.3300.0, Culture=neutral,

PublicKeyToken=b03f5f7f11d50a3a"

version="1"

Unrestricted="true"/>

<IPermission class="System.Messaging,MessageQueuePermission, System.Messaging,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"

version="1"

Unrestricted="true"/>

<IPermission class="System.ServiceProcess.ServiceControllerPermission,"</pre>

System.ServiceProcess, Version=1.0.3300.0, Culture=neutral,

PublicKeyToken=b03f5f7f11d50a3a"

version="1"

Unrestricted="true"/>

<IPermission class="System.Data.OleDb.OleDbPermission, System.Data, Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

AllowBlankPassword="False"

Unrestricted="true"/>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

AllowBlankPassword="False"

Unrestricted="true"/>

</PermissionSet>

Success

Name="Nothing"

#### 4.3.5 .Net Framework 1.1 Default Permission Sets

```
C:\WINDOWS\Microsoft.NET\Framework\v1.1.4322\CasPol.exe -all -lp
Microsoft (R) .NET Framework CasPol 1.0.3705.6018
Copyright (C) Microsoft Corporation 1998-2001. All rights reserved.
Security is OFF
Execution checking is ON
Policy change prompt is ON
Level = Enterprise
Named Permission Sets:
1. FullTrust (Allows full access to all resources) =
<PermissionSet class="System.Security.NamedPermissionSet"</pre>
         version="1"
         Unrestricted="true"
         Name="FullTrust"
         Description="Allows full access to all resources"/>
2. SkipVerification (Grants right to bypass the verification) =
<PermissionSet class="System.Security.NamedPermissionSet"</pre>
         version="1"
         Name="SkipVerification"
         Description="Grants right to bypass the verification">
 <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Flags="SkipVerification"/>
</PermissionSet>
3. Execution (Permits execution) =
<PermissionSet class="System.Security.NamedPermissionSet"</pre>
         version="1"
         Name="Execution"
         Description="Permits execution">
 <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Flags="Execution"/>
</PermissionSet>
4. Nothing (Denies all resources, including the right to execute) =
<PermissionSet class="System.Security.NamedPermissionSet"</pre>
         version="1"
```

Description="Denies all resources, including the right to execute"/>

```
5. LocalIntranet (Default rights given to applications on the local intranet) =
<PermissionSet class="System.Security.NamedPermissionSet"</p>
        version="1"
        Name="LocalIntranet"
        Description="Default rights given to applications on the local intranet">
 <IPermission class="System.Security.Permissions.EnvironmentPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Read="USERNAME"/>
 <IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Allowed="AssemblyIsolationByUser"
         UserQuota="9223372036854775807"
         Expiry="9223372036854775807"
         Permanent="True"/>
 <IPermission class="System.Security.Permissions.ReflectionPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Flags="ReflectionEmit"/>
 <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Flags="Assertion, Execution"/>
 <IPermission class="System.Security.Permissions.UIPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Net.DnsPermission, System, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"
         version="1"
         Level="DefaultPrinting"/>
 <IPermission class="System.Diagnostics.EventLogPermission, System, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1">
   <Machine name="."
        access="Instrument"/>
 /IPermission>
```

#### </PermissionSet>

```
6. Internet (Default rights given to internet applications) =
<PermissionSet class="System.Security.NamedPermissionSet"</p>
        version="1"
        Name="Internet"
        Description="Default rights given to internet applications">
 <IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Access="Open"/>
 <IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Allowed="DomainIsolationByUser"
         UserQuota="10240"/>
 <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Flags="Execution"/>
 <IPermission class="System.Security.Permissions.UIPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Window="SafeTopLevelWindows"
         Clipboard="OwnClipboard"/>
 <IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"
         version="1"
         Level="SafePrinting"/>
</PermissionSet>
7. Everything (Allows unrestricted access to all resources covered by built-in permissions) =
<PermissionSet class="System.Security.NamedPermissionSet"</pre>
        version="1"
        Name="Everything"
        Description="Allows unrestricted access to all resources covered by built-in
permissions">
 <IPermission class="System.Security.Permissions.EnvironmentPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Security.Permissions.FileIOPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
```

Unrestricted="true"/>

<IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Security.Permissions.ReflectionPermission, mscorlib,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Security.Permissions.RegistryPermission, mscorlib,"</pre>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Flags="Assertion, UnmanagedCode, Execution, ControlThread, ControlEvidence,

ControlPolicy, SerializationFormatter, ControlDomainPolicy, ControlPrincipal,

ControlAppDomain, RemotingConfiguration, Infrastructure"/>

<IPermission class="System.Security.Permissions.UIPermission, mscorlib,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Net.DnsPermission, System, Version=1.0.3300.0,</p>

Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"

version="1"

Unrestricted="true"/>

<IPermission class="System.Diagnostics.EventLogPermission, System, Version=1.0.3300.0,</p>

Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Net.SocketPermission, System, Version=1.0.3300.0,</p>

Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Net.WebPermission, System, Version=1.0.3300.0,</p>

Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Diagnostics.PerformanceCounterPermission, System,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

```
<IPermission class="System.DirectoryServices.DirectoryServicesPermission,</p>
System.DirectoryServices, Version=1.0.3300.0, Culture=neutral,
PublicKevToken=b03f5f7f11d50a3a"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Messaging.MessageQueuePermission, System.Messaging,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.ServiceProcess.ServiceControllerPermission,</p>
System.ServiceProcess, Version=1.0.3300.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Data.OleDb.OleDbPermission, System.Data, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         AllowBlankPassword="False"
         Unrestricted="true"/>
 <IPermission class="System.Data.SqlClient.SqlClientPermission, System.Data,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         AllowBlankPassword="False"
         Unrestricted="true"/>
</PermissionSet>
Level = Machine
Named Permission Sets:
1. FullTrust (Allows full access to all resources) =
<PermissionSet class="System.Security.NamedPermissionSet"</pre>
        version="1"
        Unrestricted="true"
        Name="FullTrust"
        Description="Allows full access to all resources"/>
2. SkipVerification (Grants right to bypass the verification) =
<PermissionSet class="System.Security.NamedPermissionSet"</pre>
        version="1"
        Name="SkipVerification"
        Description="Grants right to bypass the verification">
 <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Flags="SkipVerification"/>
</PermissionSet>
```

3. Execution (Permits execution) = <PermissionSet class="System.Security.NamedPermissionSet"</p> version="1" Name="Execution" Description="Permits execution"> <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Flags="Execution"/> </PermissionSet> 4. Nothing (Denies all resources, including the right to execute) = <PermissionSet class="System.Security.NamedPermissionSet"</pre> version="1" Name="Nothing" Description="Denies all resources, including the right to execute"/> 5. LocalIntranet (Default rights given to applications on the local intranet) = <PermissionSet class="System.Security.NamedPermissionSet"</p> version="1" Name="LocalIntranet" Description="Default rights given to applications on the local intranet"> <IPermission class="System.Security.Permissions.EnvironmentPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Read="USERNAME"/> <IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true"/> <IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Allowed="AssemblyIsolationByUser" UserQuota="9223372036854775807" Expiry="9223372036854775807" Permanent="True"/> <IPermission class="System.Security.Permissions.ReflectionPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Flags="ReflectionEmit"/> <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Flags="Assertion, Execution"/> <IPermission class="System.Security.Permissions.UIPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

```
version="1"
         Unrestricted="true"/>
 <IPermission class="System.Net.DnsPermission, System, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"
         version="1"
         Level="DefaultPrinting"/>
 <IPermission class="System.Diagnostics.EventLogPermission, System, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1">
   <Machine name="."
        access="Instrument"/>
 /IPermission>
</PermissionSet>
6. Internet (Default rights given to internet applications) =
<PermissionSet class="System.Security.NamedPermissionSet"</p>
        version="1"
        Name="Internet"
        Description="Default rights given to internet applications">
 <IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Access="Open"/>
 <IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Allowed="DomainIsolationByUser"
         UserQuota="10240"/>
 <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Flags="Execution"/>
 <IPermission class="System.Security.Permissions.UIPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Window="SafeTopLevelWindows"
         Clipboard="OwnClipboard"/>
 <IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"
         version="1"
         Level="SafePrinting"/>
</PermissionSet>
```

7. Everything (Allows unrestricted access to all resources covered by built-in permissions) =

```
<PermissionSet class="System.Security.NamedPermissionSet"</pre>
        version="1"
        Name="Everything"
        Description="Allows unrestricted access to all resources covered by built-in
permissions">
 <IPermission class="System.Security.Permissions.EnvironmentPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Security.Permissions.FileIOPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Security.Permissions.ReflectionPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Security.Permissions.RegistryPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Flags="Assertion, UnmanagedCode, Execution, ControlThread, ControlEvidence,
ControlPolicy, SerializationFormatter, ControlDomainPolicy, ControlPrincipal,
ControlAppDomain, RemotingConfiguration, Infrastructure"/>
 <IPermission class="System.Security.Permissions.UIPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Net.DnsPermission, System, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"
         version="1"
         Unrestricted="true"/>
```

```
<IPermission class="System.Diagnostics.EventLogPermission, System, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Net.SocketPermission, System, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Net.WebPermission, System, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Diagnostics.PerformanceCounterPermission, System,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.DirectoryServices.DirectoryServicesPermission,</p>
System.DirectoryServices, Version=1.0.3300.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Messaging.MessageQueuePermission, System.Messaging,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.ServiceProcess.ServiceControllerPermission,</p>
System.ServiceProcess, Version=1.0.3300.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a"
         version="1"
         Unrestricted="true"/>
 <IPermission class="System.Data.OleDb.OleDbPermission, System.Data, Version=1.0.3300.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         AllowBlankPassword="False"
         Unrestricted="true"/>
 <IPermission class="System.Data.SqlClient.SqlClientPermission, System.Data,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         AllowBlankPassword="False"
         Unrestricted="true"/>
</PermissionSet>
Level = User
Named Permission Sets:
```

1. FullTrust (Allows full access to all resources) =

```
<PermissionSet class="System.Security.NamedPermissionSet"</pre>
         version="1"
         Unrestricted="true"
         Name="FullTrust"
         Description="Allows full access to all resources"/>
2. SkipVerification (Grants right to bypass the verification) =
<PermissionSet class="System.Security.NamedPermissionSet"</pre>
         version="1"
         Name="SkipVerification"
         Description="Grants right to bypass the verification">
 <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib.</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Flags="SkipVerification"/>
</PermissionSet>
3. Execution (Permits execution) =
<PermissionSet class="System.Security.NamedPermissionSet"</pre>
         version="1"
         Name="Execution"
         Description="Permits execution">
 <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Flags="Execution"/>
</PermissionSet>
4. Nothing (Denies all resources, including the right to execute) =
<PermissionSet class="System.Security.NamedPermissionSet"</p>
         version="1"
         Name="Nothing"
         Description="Denies all resources, including the right to execute"/>
5. LocalIntranet (Default rights given to applications on the local intranet) =
<PermissionSet class="System.Security.NamedPermissionSet"</pre>
         version="1"
         Name="LocalIntranet"
         Description="Default rights given to applications on the local intranet">
 <IPermission class="System.Security.Permissions.EnvironmentPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Read="USERNAME"/>
 <IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p>
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
         version="1"
         Unrestricted="true"/>
```

<IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Allowed="AssemblyIsolationByUser" UserQuota="9223372036854775807" Expiry="9223372036854775807" Permanent="True"/> <IPermission class="System.Security.Permissions.ReflectionPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Flags="ReflectionEmit"/> <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Flags="Assertion, Execution"/> <IPermission class="System.Security.Permissions.UIPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true"/> <IPermission class="System.Net.DnsPermission, System, Version=1.0.3300.0,</p> Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true"/> <IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a" version="1" Level="DefaultPrinting"/> <IPermission class="System.Diagnostics.EventLogPermission, System, Version=1.0.3300.0,</p> Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"> <Machine name="." access="Instrument"/> </PermissionSet> 6. Internet (Default rights given to internet applications) = <PermissionSet class="System.Security.NamedPermissionSet"</pre> version="1" Name="Internet" Description="Default rights given to internet applications"> <IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Access="Open"/> <IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p> Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Allowed="DomainIsolationByUser"

```
UserQuota="10240"/>
```

<IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Flags="Execution"/>

<IPermission class="System.Security.Permissions.UIPermission, mscorlib,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Window="SafeTopLevelWindows"

Clipboard="OwnClipboard"/>

<IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"

version="1"

Level="SafePrinting"/>

</PermissionSet>

7. Everything (Allows unrestricted access to all resources covered by built-in permissions) = <PermissionSet class="System.Security.NamedPermissionSet"

version="1"

Name="Everything"

Description="Allows unrestricted access to all resources covered by built-in permissions">

<IPermission class="System.Security.Permissions.EnvironmentPermission, mscorlib,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Security.Permissions.FileIOPermission, mscorlib,</pre>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Security.Permissions.ReflectionPermission, mscorlib,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Security.Permissions.RegistryPermission, mscorlib,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Flags="Assertion, UnmanagedCode, Execution, ControlThread, ControlEvidence,

ControlPolicy, SerializationFormatter, ControlDomainPolicy, ControlPrincipal,

ControlAppDomain, RemotingConfiguration, Infrastructure"/>

<IPermission class="System.Security.Permissions.UIPermission, mscorlib,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Net.DnsPermission, System, Version=1.0.3300.0,</p>

Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"

version="1"

Unrestricted="true"/>

<IPermission class="System.Diagnostics.EventLogPermission, System, Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Net.SocketPermission, System, Version=1.0.3300.0,</p>

Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Net.WebPermission, System, Version=1.0.3300.0,</p>

Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.Diagnostics.PerformanceCounterPermission, System,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

Unrestricted="true"/>

<IPermission class="System.DirectoryServices.DirectoryServicesPermission,"</pre>

System.DirectoryServices, Version=1.0.3300.0, Culture=neutral,

PublicKeyToken=b03f5f7f11d50a3a"

version="1"

Unrestricted="true"/>

<IPermission class="System.Messaging,MessageQueuePermission, System.Messaging,</p>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"

version="1"

Unrestricted="true"/>

<IPermission class="System.ServiceProcess.ServiceControllerPermission,"</pre>

System.ServiceProcess, Version=1.0.3300.0, Culture=neutral,

PublicKeyToken=b03f5f7f11d50a3a"

version="1"

Unrestricted="true"/>

<IPermission class="System.Data.OleDb.OleDbPermission, System.Data, Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

AllowBlankPassword="False"

Unrestricted="true"/>

Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"

version="1"

AllowBlankPassword="False"

Unrestricted="true"/>

</PermissionSet>

Success

## 4.3.6 .Net Framework 2.0, 3.0 & 3.5 Default Permission Sets

C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727\CasPol.exe -all -lp

Microsoft (R) .NET Framework CasPol 2.0.50727.3053 Copyright (c) Microsoft Corporation. All rights reserved.

Security is ON Execution checking is ON Policy change prompt is ON

Level = Enterprise

Named Permission Sets:

- 1. FullTrust (Allows full access to all resources) = <PermissionSet class="System.Security.NamedPermissionSet" version="1" Unrestricted="true" Name="FullTrust" Description="Allows full access to all resources" />
- 2. SkipVerification (Grants right to bypass the verification) = <PermissionSet class="System.Security.NamedPermissionSet" version="1" Name="SkipVerification" Description="Grants right to bypass the verification"> <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Flags="SkipVerification" /> </PermissionSet>
- 3. Execution (Permits execution) =

<PermissionSet class="System.Security.NamedPermissionSet" version="1" Name="Execution"
Description="Permits execution">

<IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Flags="Execution" />
</PermissionSet>

- 4. Nothing (Denies all resources, including the right to execute) = <PermissionSet class="System.Security.NamedPermissionSet" version="1" Name="Nothing" Description="Denies all resources, including the right to execute" />
- 5. LocalIntranet (Default rights given to applications on the local intranet) = <PermissionSet class="System.Security.NamedPermissionSet" version="1"

  Name="LocalIntranet" Description="Default rights given to applications on the local intranet"> <IPermission class="System.Security.Permissions.EnvironmentPermission, mscorlib, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Read="USERNAME"/>

```
<IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
  <IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Allowed="AssemblyIsolationByUser" UserQuota="9223372036854775807"
Expiry="9223372036854775807" Permanent="True" />
  <IPermission class="System.Security.Permissions.ReflectionPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Flags="ReflectionEmit" />
  <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Flags="Assertion, Execution, BindingRedirects" />
  <IPermission class="System.Security.Permissions.UIPermission, mscorlib, Version=2.0.0.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Net.DnsPermission, System, Version=2.0.0.0, Culture=neutral,</p>
PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a" version="1"
Level="DefaultPrinting" />
</PermissionSet>
6. Internet (Default rights given to Internet applications) =
<PermissionSet class="System.Security.NamedPermissionSet" version="1" Name="Internet"</pre>
Description="Default rights given to Internet applications">
  <IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Access="Open" />
  <IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Allowed="ApplicationIsolationByUser" UserQuota="512000" />
  <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Flags="Execution" />
  <IPermission class="System.Security.Permissions.UIPermission, mscorlib, Version=2.0.0.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Window="SafeTopLevelWindows" Clipboard="OwnClipboard" />
  <IPermission class="System.Drawing.PrintingPermission, System.Drawing,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a" version="1"
Level="SafePrinting" />
</PermissionSet>
7. Everything (Allows unrestricted access to all resources covered by built-in permissions) =
<PermissionSet class="System.Security.NamedPermissionSet" version="1" Name="Everything"</pre>
Description="Allows unrestricted access to all resources covered by built-in permissions">
```

Unrestricted="true" />
54

<IPermission class="System.Security.Permissions.EnvironmentPermission, mscorlib, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"</p>

```
<IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
  <IPermission class="System.Security.Permissions.FileIOPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
  <IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
  <IPermission class="System.Security.Permissions.ReflectionPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
  <IPermission class="System.Security.Permissions.RegistryPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
  <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Flags="Assertion, UnmanagedCode, Execution, ControlThread, ControlEvidence, ControlPolicy,
SerializationFormatter, ControlDomainPolicy, ControlPrincipal, ControlAppDomain,
RemotingConfiguration, Infrastructure" />
  <IPermission class="System.Security.Permissions.UIPermission, mscorlib, Version=2.0.0.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Security.Permissions.KeyContainerPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
  <IPermission class="System.Net.DnsPermission, System, Version=2.0.0.0, Culture=neutral,</p>
PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a" version="1"
Unrestricted="true" />
  <IPermission class="System.Net.SocketPermission, System, Version=2.0.0.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Net.WebPermission, System, Version=2.0.0.0, Culture=neutral,</p>
PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Diagnostics.EventLogPermission, System, Version=2.0.0.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Security.Permissions.StorePermission, System, Version=2.0.0.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Diagnostics.PerformanceCounterPermission, System,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
  <IPermission class="System.Data.OleDb.OleDbPermission, System.Data, Version=2.0.0.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Data.SqlClient.SqlClientPermission, System.Data,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
```

<IPermission class="System.Security.Permissions.DataProtectionPermission,
System.Security, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"
version="1" Unrestricted="true" />
</PermissionSet>

Level = Machine

Named Permission Sets:

- 1. FullTrust (Allows full access to all resources) = <PermissionSet class="System.Security.NamedPermissionSet" version="1" Unrestricted="true" Name="FullTrust" Description="Allows full access to all resources" />
- 2. SkipVerification (Grants right to bypass the verification) = <PermissionSet class="System.Security.NamedPermissionSet" version="1" Name="SkipVerification" Description="Grants right to bypass the verification"> <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Flags="SkipVerification" /> </PermissionSet>
- 3. Execution (Permits execution) =

<PermissionSet class="System.Security.NamedPermissionSet" version="1" Name="Execution"
Description="Permits execution">

<IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Flags="Execution" />
</PermissionSet>

- 4. Nothing (Denies all resources, including the right to execute) = <PermissionSet class="System.Security.NamedPermissionSet" version="1" Name="Nothing" Description="Denies all resources, including the right to execute" />
- 5. LocalIntranet (Default rights given to applications on the local intranet) = 
  <PermissionSet class="System.Security.NamedPermissionSet" version="1"
  Name="LocalIntranet" Description="Default rights given to applications on the local intranet">
   <IPermission class="System.Security.Permissions.EnvironmentPermission, mscorlib,
   Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
   Read="USERNAME"/>

<IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />

<IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Allowed="AssemblyIsolationByUser" UserQuota="9223372036854775807" Expiry="9223372036854775807" Permanent="True" />

Unrestricted="true" />

```
<IPermission class="System.Security.Permissions.ReflectionPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Flags="ReflectionEmit" />
  <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Flags="Assertion, Execution, BindingRedirects" />
  <IPermission class="System.Security.Permissions.UIPermission, mscorlib, Version=2.0.0.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Net.DnsPermission, System, Version=2.0.0.0, Culture=neutral,</p>
PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a" version="1"
Level="DefaultPrinting" />
</PermissionSet>
6. Internet (Default rights given to Internet applications) =
<PermissionSet class="System.Security.NamedPermissionSet" version="1" Name="Internet"</p>
Description="Default rights given to Internet applications">
  <IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Access="Open" />
  <IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Allowed="ApplicationIsolationByUser" UserQuota="512000" />
  <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Flags="Execution" />
  <IPermission class="System.Security.Permissions.UIPermission, mscorlib, Version=2.0.0.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Window="SafeTopLevelWindows" Clipboard="OwnClipboard" />
  <IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a" version="1"
Level="SafePrinting" />
</PermissionSet>
7. Everything (Allows unrestricted access to all resources covered by built-in permissions) =
<PermissionSet class="System.Security.NamedPermissionSet" version="1" Name="Everything"</p>
Description="Allows unrestricted access to all resources covered by built-in permissions">
  <IPermission class="System.Security.Permissions.EnvironmentPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
  <IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
  <IPermission class="System.Security.Permissions.FileIOPermission, mscorlib,</p>
```

Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"

```
<IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
  <IPermission class="System.Security.Permissions.ReflectionPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
  <IPermission class="System.Security.Permissions.RegistryPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
  <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Flags="Assertion, UnmanagedCode, Execution, ControlThread, ControlEvidence, ControlPolicy,
SerializationFormatter, ControlDomainPolicy, ControlPrincipal, ControlAppDomain,
RemotingConfiguration, Infrastructure" />
  <IPermission class="System.Security.Permissions.UIPermission, mscorlib, Version=2.0.0.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Security.Permissions.KeyContainerPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
  <IPermission class="System.Net.DnsPermission, System, Version=2.0.0.0, Culture=neutral,</p>
PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a" version="1"
Unrestricted="true" />
  <IPermission class="System.Net.SocketPermission, System, Version=2.0.0.0,</pre>
Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Net.WebPermission, System, Version=2.0.0.0, Culture=neutral,</p>
PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Diagnostics.EventLogPermission, System, Version=2.0.0.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Security.Permissions.StorePermission, System, Version=2.0.0.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Diagnostics.PerformanceCounterPermission, System,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
  <IPermission class="System.Data.OleDb.OleDbPermission, System.Data, Version=2.0.0.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Data.SqlClient.SqlClientPermission, System.Data,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
  <IPermission class="System.Security.Permissions.DataProtectionPermission,</p>
System.Security, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"
version="1" Unrestricted="true" />
</PermissionSet>
```

Level = User

#### Named Permission Sets:

- 1. FullTrust (Allows full access to all resources) = <PermissionSet class="System.Security.NamedPermissionSet" version="1" Unrestricted="true"
- Name="FullTrust" Description="Allows full access to all resources" />
- 2. SkipVerification (Grants right to bypass the verification) =

<PermissionSet class="System.Security.NamedPermissionSet" version="1"</p>

Name="SkipVerification" Description="Grants right to bypass the verification">

<IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>

Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"

Flags="SkipVerification" />

</PermissionSet>

- 3. Execution (Permits execution) =
- <PermissionSet class="System.Security.NamedPermissionSet" version="1" Name="Execution" Description="Permits execution">

<IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>

Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"

Flags="Execution" />

</PermissionSet>

- 4. Nothing (Denies all resources, including the right to execute) =
- <PermissionSet class="System.Security.NamedPermissionSet" version="1" Name="Nothing" Description="Denies all resources, including the right to execute" />
- 5. LocalIntranet (Default rights given to applications on the local intranet) =

<PermissionSet class="System.Security.NamedPermissionSet" version="1"</pre>

Name="LocalIntranet" Description="Default rights given to applications on the local intranet">

<IPermission class="System.Security.Permissions.EnvironmentPermission, mscorlib,</pre>

Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"

Read="USERNAME" />

<IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p>

Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"

Unrestricted="true" />

<IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p>

Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"

Allowed="AssemblyIsolationByUser" UserQuota="9223372036854775807"

Expiry="9223372036854775807" Permanent="True" />

<IPermission class="System.Security.Permissions.ReflectionPermission, mscorlib,</p>

Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Flags="ReflectionEmit" />

<IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>

Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"

Flags="Assertion, Execution, BindingRedirects" />

<IPermission class="System.Security.Permissions.UIPermission, mscorlib, Version=2.0.0.0,</p>

Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />

```
18 February 2009
                                                                     Defense Information Systems Agency
  <IPermission class="System.Net.DnsPermission, System, Version=2.0.0.0, Culture=neutral,</p>
PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a" version="1"
Level="DefaultPrinting" />
</PermissionSet>
6. Internet (Default rights given to Internet applications) =
<PermissionSet class="System.Security.NamedPermissionSet" version="1" Name="Internet"</pre>
Description="Default rights given to Internet applications">
  <IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Access="Open" />
  <IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Allowed="ApplicationIsolationByUser" UserQuota="512000" />
  <IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Flags="Execution" />
  <IPermission class="System.Security.Permissions.UIPermission, mscorlib, Version=2.0.0.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Window="SafeTopLevelWindows" Clipboard="OwnClipboard" />
  <IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a" version="1"
Level="SafePrinting" />
</PermissionSet>
7. Everything (Allows unrestricted access to all resources covered by built-in permissions) =
<PermissionSet class="System.Security.NamedPermissionSet" version="1" Name="Everything"</pre>
Description="Allows unrestricted access to all resources covered by built-in permissions">
  <IPermission class="System.Security.Permissions.EnvironmentPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
  <IPermission class="System.Security.Permissions.FileDialogPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
  <IPermission class="System.Security.Permissions.FileIOPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
  <IPermission class="System.Security.Permissions.IsolatedStorageFilePermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
  <IPermission class="System.Security.Permissions.ReflectionPermission, mscorlib,</p>
```

Unrestricted="true" />

Unrestricted="true" />

Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"

<IPermission class="System.Security.Permissions.RegistryPermission, mscorlib,</p> Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"

```
<IPermission class="System.Security.Permissions.SecurityPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Flags="Assertion, UnmanagedCode, Execution, ControlThread, ControlEvidence, ControlPolicy,
SerializationFormatter, ControlDomainPolicy, ControlPrincipal, ControlAppDomain,
RemotingConfiguration, Infrastructure, BindingRedirects" />
  <IPermission class="System.Security.Permissions.UIPermission, mscorlib, Version=2.0.0.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Security.Permissions.KeyContainerPermission, mscorlib,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
  <IPermission class="System.Net.DnsPermission, System, Version=2.0.0.0, Culture=neutral,</p>
PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a" version="1"
Unrestricted="true" />
  <IPermission class="System.Net.SocketPermission, System, Version=2.0.0.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Net.WebPermission, System, Version=2.0.0.0, Culture=neutral,</p>
PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Diagnostics.EventLogPermission, System, Version=2.0.0.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Security.Permissions.StorePermission, System, Version=2.0.0.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Diagnostics.PerformanceCounterPermission, System,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
  <IPermission class="System.Data.OleDb.OleDbPermission, System.Data, Version=2.0.0.0,</p>
Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
  <IPermission class="System.Data.SqlClient.SqlClientPermission, System.Data,</p>
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"
Unrestricted="true" />
  <IPermission class="System.Security.Permissions.DataProtectionPermission,</p>
System.Security, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a"
version="1" Unrestricted="true" />
</PermissionSet>
```

Success

#### **4.4 IAVM Compliance**

IAVM alerts, bulletins, and advisories were instituted to provide positive control of vulnerability notification and corresponding corrective action within DOD. All DOD program managers and system administrators, and/or other personnel responsible for system networks shall comply with the IAVM process. Security patches that address .NET vulnerabilities are reviewed during an operating system security review and are not included in this checklist.

## 4.5 Version-specific Vulnerabilities

Vulnerabilities that apply only to a specific version of .NET are so noted. Versions to which the vulnerability does not apply should have that finding marked as N/A.

# 4.6 .Net Configuration File Location

Level	Version	File
Enterprise	1.0	%SystemRoot%\Microsoft.NET\Framework\Config\v1.0.3705\Enterprisesec.config
Enterprise	1.1	%SystemRoot%\Microsoft.NET\Framework\Config\v1.1.4322\Enterprisesec.config
Enterprise	2.0, 3.0	%SystemRoot%\Microsoft.NET\Framework\Config\v2.0.50727\Enterprisesec.config
	& 3.5	
Machine	1.0	%SystemRoot%\Microsoft.NET\Framework\Config\v1.0.3705\Security.config
Machine	1.1	%SystemRoot%\Microsoft.NET\Framework\Config\v1.1.4322\Security.config
Machine	2.0, 3.0	%SystemRoot%\Microsoft.NET\Framework\Config\v2.0.50727\Security.config
	& 3.5	
User	1.0	User Profile\Application Data\Microsoft\CLR Security Config\v1.0.3705
User	1.1	User Profile\Application Data\Microsoft\CLR Security Config\v1.1.4322
User	2.0, 3.0	User Profile\Application Data\Microsoft\CLR Security Config\v2.0.50727.42
	& 3.5	•

**Table 6 - Location of Configuration Files** 

# 4.7 Reviewing Permissions with Code Access Security Policy Tool

The .NET Framework Code Access Security (CAS) Policy Tool caspol.exe may be used to review the .NET Framework code access security configuration. Each version of the .Net Framework comes with its own version of caspol.exe. Each version of caspol.exe can only be used to administer the .Net Framework version for which it was built. Use the version of caspol.exe found in the same directory structure as the .NET Framework version that is being reviewed. Security configurations for .Net 3.0 and 3.5 use the same underling CLR and share configuration information as .Net 2.0.

\*Note: Any findings found in .Net 2.0 should be marked in .Net 3.0 and .Net 3.5 Frameworks if they are installed.

Following are caspol.exe command line syntaxes for displaying the .NET code groups, permission sets, and trust assemblies. Issue all commands from the Windows command line accessed via the Windows Start>>Run>> open: cmd. Output may be directed to a text file with the use of the > redirection pipe. The resulting file may then be reviewed using the Windows Notepad or other text editor.

<sup>\*</sup>Note: Microsoft .Net versions 3.0 and 3.5 utilize the .Net 2.0 CLR and the same security configuration files.

<sup>\*</sup>Note: If configuration files are missing or corrupt the default configuration will be applied.

# To list code groups for all levels, type the following command.

For .Net Framework Versions 1.0

C:\WINDOWS\Microsoft.NET\Framework\v1.0.3705\CasPol.exe -all -lg

For .Net Framework Versions 1.1

C:\WINDOWS\Microsoft.NET\Framework\v1.1.4322\CasPol.exe -all -lg

For .Net Framework Versions 2.0, 3.0 & 3.5

C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727\CasPol.exe -all -lg

# To list code group names and descriptions for all levels, type the following command.

For .Net Framework Versions 1.0

C:\WINDOWS\Microsoft.NET\Framework\v1.0.3705\CasPol.exe -all -ld

For .Net Framework Versions 1.1

C:\WINDOWS\Microsoft.NET\Framework\v1.1.4322\CasPol.exe -all -ld

For .Net Framework Versions 2.0, 3.0 & 3.5

C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727\CasPol.exe -all -ld

# To list permission sets for all levels, type the following command.

For .Net Framework Versions 1.0

C:\WINDOWS\Microsoft.NET\Framework\v1.0.3705\CasPol.exe -all -lp

For .Net Framework Versions 1.1

C:\WINDOWS\Microsoft.NET\Framework\v1.1.4322\CasPol.exe -all -lp

For .Net Framework Versions 2.0, 3.0 & 3.5

C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727\CasPol.exe -all -lp

Caspol.exe can typically be found in the %systemroot%\Microsoft.NET\Framework\<version>\ directory.

Microsoft .Net version 2.0, 3.0 & 3.5 use the same underlying Common Language Runtime (CLR) is and share the same configuration files.

# 4.8 Reviewing Software Publishing State Values

Use regedit to determine the value of the registry keys for all users of the machine. All values for software publishing should be reviewed.

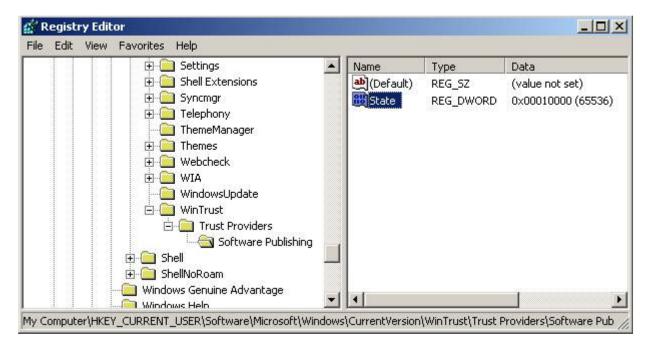
## **Example Locations:**

HKEY\_CURRENT\_USER\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing\State

HKEY\_USERS\S-1-5-18\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing\State

HKEY\_USERS\S-1-5-19\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing\State

HKEY\_USERS\S-1-5-20\Software\Microsoft\Windows\CurrentVersion\WinTrust\Trust Providers\Software Publishing\State



Convert the State DWORD value to binary with the hexadecimal calculator.

# For Example

If the registry setting is 10000 Hex it converts to 0010000000000000 Binary with 2 leading zeros for 19 bits total.

Use Table 7 to determine the individual values for software publishing.

Hex	1			0				0			0				0					
Binary	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		If Bit 19 = 1 Only trust items found in the Trust DB = TRUE  If Bit 19 = 0 Only trust items found in the Trust DB = FALSE	If Bit 18 = 1 Check the revocation list on Time Stamp Signer = FALSE If Bit 18 = 0 Check the revocation list on Time Stamp Signer = TRUE	If Bit 17 = 1 Invalidate version 1 signed objects = TRUE If Bit 17 = 0 Invalidate version 1 signed objects = FALSE			If Bit 14 = 1 Java offline revocation server OK (Commercial) = TRUE If Bit 14 = 0 Java offline revocation server OK (Commercial) = FALSE	If Bit 13 = 1 Java offline revocation server OK (Individual) = TRUE  If Bit 13 = 0 Java offline revocation server OK (Individual) = FALSE	If Bit 12 = 1 Offline revocation server OK (Commercial) = TRUE  If Bit 12 = 0 Offline revocation server OK (Commercial) = FALSE	If Bit 11 = 1 Offline revocation server OK (Individual) = TRUE  If Bit 11 = 0 Offline revocation server OK (Individual) = FALSE	If Bit 10 = 1 Check the revocation list = FALSE If Bit 10 = 0 Check the revocation list = TRUE	If Bit 9 = 1 Use expiration date on certificates = FALSE  If Bit 9 = 0 Use expiration date on certificates = TRUE	If Bits 6 & 8 = 1 Trust the Test Root = TRUE If Bits 6 & 8 = 0 Trust the Test Root = FALSE		If Bits 6 & 8 = 1 Trust the Test Root = TRUE If Bits 6 & 8 = 0 Trust the Test Root = FALSE					
	rust items found in the Trust DB = FALSE																			
	Check the revocation list on Time Stamp Signer = TRUE																			
Invalidate version 1 signed objects = TRUE																				
Java offline revocation server OK (Commercial) = FALSE																				
Java offline revocation server OK (Individual) = FALSE																				
Offline revocation server OK (Commercial) = FALSE																				
	Offline revocation server OK (Individual) = FALSE																			
Check the revocation list = TRUE																				

**Table 7 - Software Publishing State Value Table** 

## 5. .NET Security Framework Checks and Procedures

The following instructions should be used for checks APPNET0001 through APPNET0030. Use the permission name specified in the individual instruction to determine the specific permission to review. Any instructions included under a check are specific to that check and should be followed.

Performing a SRR on the .NET Framework involves identifying which permission sets have potentially dangerous permissions. After determining which permission sets are of interest the code groups to which those permission sets are assigned must be identified. Once the code groups are identified the membership conditions for those code groups must be documented. When determining whether or not a given vulnerability exists the reviewer must evaluate the membership conditions of code groups that grant the permission and determine if the permission is restricted to the appropriate assemblies. When entering the finding details the reviewer should include the name of the permission set(s) and the code group(s) that grant the permission set(s).

#### 5.1 APPNET0001: File IO Permission

**Description:** The File IO permission allows an application to access system files directly.

Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.Security.Permissions.FileIOPermission.

# Example:

7. Dev =

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

#### Example:

Level = Machine

# Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82

# 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

1.2. Zone - Intranet: LocalIntranet 1.2.1. All code: Same site Web

1.2.2. All code: Same directory FileIO - 'Read, PathDiscovery'

1.3. Zone - Internet: Internet
1.3.1. All code: Same site Web
1.4. Zone - Untrusted: Nothing
1.5. Zone - Trusted: Internet
1.5.1. All code: Same site Web
1.6. ApplicationDirectory: Dev

#### Validate:

- 1. If a Permission Set with the *File IO* permission of *Grant Assemblies unrestricted* access to the file system (unrestricted="true") is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.
- 2. If a Permission Set granting limited *File IO* permissions is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP				
SDID: APPNET0001	File IO Permission					
Reference:	.NET Framework Security Guide pg. 14	IA Control: ECCD-1, ECCD-2				

#### **5.2 APPNET0003: Isolated Storage Permission**

**Description:** The *Isolated Storage* permission is used to allow applications to store temporary data to a local user data store.

# Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.Security.Permissions.IsolatedStorageFilePermission.

# Example:

7. Dev =

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

Example:

Level = Machine

## Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

00240000480000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  1.3.1. All code: Same site Web
  1.4. Zone Untrusted: Nothing
  1.5. Zone Trusted: Internet
  1.5.1. All code: Same site Web

1.6. ApplicationDirectory: Dev

# Validate:

- 1. If the *Isolated Storage* permission of *Grant assemblies unrestricted access to file-based storage (unrestricted="true")* is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.
- 2. If the *Isolated Storage* permission *Administer Isolated Storage by User* is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.
- 3. If the *Isolated Storage* permissions *Assembly Isolation by User* or *Assembly Isolation by Roaming User* is assigned to a Non-default Code Group whose membership criteria has not been evaluated and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP			
SDID : APPNET0003	Isolated Storage Permission				
Reference:	.NET Framework Security Guide pg. 16	IA Control: DCSL-1			

# **5.3** APPNET0004: User Interface Permission (Windowing)

**Description:** The User Interface Permission for windowing controls access to user interface windows.

Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.Security.Permissions.UIPermission for Windows.

# Example:

7. Dev =

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

## Example:

Level = Machine

# Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. Zone Trusted: Internet
- 1.5.1. All code: Same site Web
- 1.6. ApplicationDirectory: Dev

#### Validate:

- 1. If the *User Interface* permission of *Grant assemblies unrestricted access to user interface elements (unrestricted="true")* is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding..
- 2. If the *User Interface* permission *All Windows Events* is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as its' membership condition

and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.

3. If the *User Interface* permissions *Safe Top Level Windows* is assigned to a Non-default Code Group whose membership criteria has not been evaluated and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0004	User Interface Permission (Windowing)	
Reference:	.NET Framework Security Guide pg 20	IA Control: DCSL-1

# **5.4 APPNET0005:** User Interface Permission (Clipboard)

**Description:** The User Interface Permission for clipboard controls application access to clipboards used by the user or other applications.

# Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.Security.Permissions.UIPermission for Clipboard.

## Example:

#### 7. Dev =

<PermissionSet class="System.Security.NamedPermissionSet" version="1" Name="Dev"> (IPermission class="System.Security.Permissions.UIPermission, mscorlib, version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Window="SafeSubWindows" Clipboard="OwnClipboard" /> (PermissionSet>)

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

#### Example:

Level = Machine

#### Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

002400000480000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet 1.2.1. All code: Same site Web

1.2.2. All code: Same directory FileIO - 'Read, PathDiscovery'

1.3. Zone - Internet: Internet
1.3.1. All code: Same site Web
1.4. Zone - Untrusted: Nothing
1.5. Zone - Trusted: Internet
1.5.1. All code: Same site Web
1.6. ApplicationDirectory: Dev

#### Validate:

1. If any *User Interface* permission other than *No Clipboard* is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as its' membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0005	User Interface Permission (Clipboard)	
Reference:	.NET Framework Security Guide pg 20	IA Control: DCSL-1

## 5.5 APPNET0006: Reflection Permission

**Description:** The Reflection permission controls an application's discovery of other system resources and applications.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.Security.Permissions.ReflectionPermission.

## Example:

## 7. Dev =

<PermissionSet class="System.Security.NamedPermissionSet" version="1" Name="Dev"> (IPermission class="System.Security.Permissions.ReflectionPermission, mscorlib, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" /> (IPermissionSet) (IPPRIME PROPERTY NAMED P

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

## Example:

Level = Machine

#### Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust

## 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. Zone Trusted: Internet
  - 1.5.1. All code: Same site Web

## 1.6. ApplicationDirectory: Dev

#### Validate:

- 1. If the *Reflection* permission of *Grant assemblies unrestricted permission to discover information about other assemblies (unrestricted="true")* is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding..
- 2. If the *Reflection* permission *Member* is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as its' membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.
- 3. If the *Reflection* permissions *Type* is assigned to a Non-default Code Group whose membership criteria has not been reviewed and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID: APPNET0006	Reflection Permission	
Reference:	.NET Framework Security Guide pg 21	IA Control: DCSL-1

#### 5.6 APPNET0007: Printing Permission

**Description:** The Printing permission controls application access to system printing resources.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.Drawing.PrintingPermission.

## Example:

#### 7. Dev =

<PermissionSet class="System.Security.NamedPermissionSet" version="1" Name="Dev">

<IPermission class="System.Drawing.Printing.PrintingPermission, System.Drawing,
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a" version="1"
Unrestricted="true" />
</PermissionSet>

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

## Example:

Level = Machine

## Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
- 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. Zone Trusted: Internet
  - 1.5.1. All code: Same site Web

## 1.6. ApplicationDirectory: Dev

## Validate:

- 1. If the *Printing* permission of *Grant assemblies unrestricted access to printers* (*unrestricted="true"*) is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding..
- 2. If the *Printing* permission *All Printing* is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as its' membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0007	Printing Permission	
Reference:	.NET Framework Security Guide pg 22	IA Control: DCSL-1

#### 5.7 APPNET0008: DNS Permission

**Description:** The DNS permission controls application access to DNS resources available to the host system.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.Net.DnsPermission.

## Example:

#### 7. Dev =

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

#### Example:

Level = Machine

## Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293; FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
- 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. Zone Trusted: Internet
  - 1.5.1. All code: Same site Web

## 1.6. ApplicationDirectory: Dev

#### Validate:

1. If the *DNS* permission of *Grant assemblies unrestricted access to DNS* (*unrestricted="true"*) is assigned to a Non-default Code Group that does not use a

Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding..

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0008	DNS Permission	
Reference:	.NET Framework Security Guide pg 23	IA Control: ECLP-1

#### 5.8 APPNET0009: Socket Access Permission

**Description:** The Socket Access permission controls application access to network ports defined on the host system.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.Net.SocketPermission.

## Example:

#### 7. Dev =

<PermissionSet class="System.Security.NamedPermissionSet" version="1" Name="Dev"> (IPermission class="System.Net.SocketPermission, System, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" /> (PermissionSet>)

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

#### Example:

Level = Machine

## Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. Zone Trusted: Internet

1.5.1. All code: Same site Web **1.6. ApplicationDirectory: Dev** 

#### Validate:

- 1. If the *Socket Access* permission of *Grant assemblies unrestricted access to sockets* (*unrestricted="true"*) is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding..
- 2. Ask the System Administrator if any *Socket Access* permissions are granted to Non-default Code groups that do not provide networking services. If these permissions exist then this is a finding.
- 3. Ask the System Administrator if any *Socket Access* permissions are granted to Non-default Code groups to hosts outside the enclave. If these permissions exist then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0009	Socket Access Permission	
Reference:	.NET Framework Security Guide pg 23	IA Control: DCSL-1

#### 5.9 APPNET0010: Web Access Permission

**Description:** The Web Access permission controls application access to HTTP requests to designated URLs or the configuration of HTTP settings.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.Net.WebPermission.

#### Example:

#### 7. Dev =

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

#### Example:

Level = Machine

## Code Groups:

1. All code: Nothing

1.1. Zone - MyComputer: FullTrust

## 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. Zone Trusted: Internet
  - 1.5.1. All code: Same site Web

## 1.6. ApplicationDirectory: Dev

#### Validate:

- 1. If the *Web Access* permission of *Grant assemblies unrestricted access to Web Sites* (*unrestricted="true"*) is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding..
- 2. If specific URL(s) (*Web Access* permissions) are assigned to a Non-default Code Group whose assignment criteria has not been reviewed and approved by the IAO then this is a finding..

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET10	Web Access Permission	
Reference:	.NET Framework Security Guide pg 24	IA Control: DCSL-1

## **5.10 APPNET0011: Message Queue Permission**

**Description:** The Message Queue permission controls application access to communications across the network.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.Messaging.MessageQueuePermission.

## Example:

## 7. Dev =

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

## Example:

Level = Machine

## Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. Zone Trusted: Internet
- 1.5.1. All code: Same site Web
- 1.6. ApplicationDirectory: Dev

#### Validate:

- 1. If the *Message Queue* permission of *Grant assemblies unrestricted access to all message queues (unrestricted="true")* is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.
- 2. If the *Message Queue* permission *Administer* is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding..
- 3. If the *Message Queue* permission *Browse* is assigned to a Non-default Code Group whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0011	Message Queue Permission	
Reference:	.NET Framework Security Guide pg 25	IA Control: ECLP-1

#### **5.11 APPNET0012: Service Controller Permission**

**Description:** The Service Controller permission controls application access to the control of Windows services.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.ServiceProcess.ServiceControllerPermission.

## Example:

#### 7. Dev =

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

#### Example:

Level = Machine

#### Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
- 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. Zone Trusted: Internet
  - 1.5.1. All code: Same site Web
- 1.6. ApplicationDirectory: Dev

#### Validate:

1. If the any *Service Controller* permissions are assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as its' membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0012	Service Controller Permission	
Reference:	.NET Framework Security Guide pg 25	IA Control: DCSL-1

#### **5.12 APPNET0013: Database Permission**

**Description:** The Database permissions control application access to databases defined on the host system.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.Data.SqlClient.SqlClientPermission or System.Data.OleDb.OleDbPermission.

## Example:

#### 7. Dev =

<PermissionSet class="System.Security.NamedPermissionSet" version="1" Name="Dev"> (IPermission class="System.Data.SqlClient.SqlClientPermission, System.Data, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />

<IPermission class="System.Data.OleDb.OleDbPermission, System.Data, Version=2.0.0.0,
Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" />
</PermissionSet>

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

#### Example:

Level = Machine

## Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. Zone Trusted: Internet

# 1.5.1. All code: Same site Web **1.6. ApplicationDirectory: Dev**

#### Validate:

1. If the SQLClientPermission or OLEDBPermissionpermission (Grant assemblies unrestricted access to all providers (unrestricted="true") is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0013	Database Permission	
Reference:	.NET Framework Security Guide pg 33	IA Control: DCSL-1

Checks APPNET014 – APPNET025 refer to the Security permission contained within a permission set assigned to a non-default code group. Review all permission sets that include the security permission.

## **5.13 APPNET0014: Security Permission (Extend Infrastructure)**

**Description:** The Security permission Extend Infrastructure controls application access to message processing.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.Security.Permissions.SecurityPermission.

#### Example:

#### 7. Dev =

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

#### Example:

Level = Machine

## Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. Zone Trusted: Internet
- 1.5.1. All code: Same site Web **1.6. ApplicationDirectory: Dev**

# Validate:

1. If the *Security* permission of *Extend Infrastructure* is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID: APPNET0014	Security Permission (Extend Infrastructure)	
Reference:	.NET Framework Security Guide 35	IA Control: DCSL-1

## **5.14 APPNET0015: Security Permission (Enable Remoting Configuration)**

**Description:** The Security permission Enable Remoting Configuration defines the communication channels available to an application.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.Security.Permissions.SecurityPermission.

#### Example:

#### 7. Dev =

<PermissionSet class="System.Security.NamedPermissionSet" version="1" Name="Dev"> (IPermission class="System.Security.Permissions.SecurityPermission, mscorlib, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Flags="Assertion, UnmanagedCode, SkipVerification, Execution, ControlThread,

ControlEvidence, ControlPolicy, SerializationFormatter, ControlDomainPolicy, ControlPrincipal, ControlAppDomain, **RemotingConfiguration**, Infrastructure" /> </PermissionSet>

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

## Example:

Level = Machine

## **Code Groups:**

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

00240000048000009400000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293; FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. Zone Trusted: Internet
  - 1.5.1. All code: Same site Web

## 1.6. ApplicationDirectory: Dev

## Validate:

1. If the *Security* permission of *Enable remoting configuration* (*Flags="RemotingConfiguration"*) is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID: APPNET0015	Security Permission (Enable Remoting configuration)	
Reference:	.NET Framework Security Guide pg 35	IA Control: DCSL-1

#### 5.15 APPNET0016: Security Permission (Enable Serialization Formatter)

**Description:** The Security permission Enable Serialization Formatter controls access to serialized data. Serialized data is data formatted into a series of bits for storing or transmitting.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.Security.Permissions.SecurityPermission.

## Example:

#### 7. Dev =

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

Example:

Level = Machine

#### Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

00240000480000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. Zone Trusted: Internet
  - 1.5.1. All code: Same site Web
- 1.6. ApplicationDirectory: Dev

#### Validate:

1. If the Security permission of Enable Serialization Formatter

(*Flags*=" *SerializationFormatter*") is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0016	Security Permission (Enable Serialization Formatter)	
Reference:	.NET Framework Security Guide pg 36	IA Control: DCSL-1

## **5.16 APPNET0017: Security Permission (Enable Thread Control)**

**Description:** The Security permission Enable Thread Control is used to control application access to abort, suspend, or resume its threads.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.Security.Permissions.SecurityPermission.

## Example:

#### 7. Dev =

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

#### Example:

Level = Machine

#### Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

002400000480000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web

1.2.2. All code: Same directory FileIO - 'Read, PathDiscovery'

1.3. Zone - Internet: Internet
1.3.1. All code: Same site Web
1.4. Zone - Untrusted: Nothing
1.5. Zone - Trusted: Internet
1.5.1. All code: Same site Web
1.6. ApplicationDirectory: Dev

#### Validate:

1. If the *Security* permission of *Enable thread control (Flags="ControlThread")* is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID: APPNET0017	Security Permission (Enable Thread Control)	
Reference:	.NET Framework Security Guide pg 36	IA Control: DCSL-1

## **5.17 APPNET0018: Security Permission (Allow Principal Control)**

**Description:** The Security permission Allow Principal control controls application access to Windows user information.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.Security.Permissions.SecurityPermission.

## Example:

#### 7. Dev =

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

#### Example:

Level = Machine

#### Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

00240000048000009400000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  1.3.1. All code: Same site Web
  1.4. Zone Untrusted: Nothing
  1.5. Zone Trusted: Internet
  1.5.1. All code: Same site Web
  1.6. ApplicationDirectory: Dev

#### Validate:

1. If the *Security* permission of *Allow principal control* (*Flags="ControlPrincipal"*) is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0018	Security Permission (Allow Principal Control)	
Reference:	.NET Framework Security Guide pg 37	IA Control: DCSL-1

## **5.18 APPNET0019: Security Permission (Enable Assembly Execution)**

**Description:** The Security permission Enable Assembly Execution allows applications to execute.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.Security.Permissions.SecurityPermission.

#### Example:

#### 7. Dev =

<PermissionSet class="System.Security.NamedPermissionSet" version="1" Name="Dev"> (IPermission class="System.Security.Permissions.SecurityPermission, mscorlib, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Flags="Assertion, UnmanagedCode, SkipVerification, Execution, ControlThread,

ControlEvidence, ControlPolicy, SerializationFormatter, ControlDomainPolicy, ControlPrincipal, ControlAppDomain, RemotingConfiguration, Infrastructure" /> </PermissionSet>

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

## Example:

Level = Machine

## Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. Zone Trusted: Internet
- 1.5.1. All code: Same site Web

## 1.6. ApplicationDirectory: Dev

## Validate:

1. If the *Security* permission of *Enable assembly execution* (*Flags="Execution"*) is in a permission set that is assigned to a Non-default Code Group with a *Zone* membership condition then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID: APPNET0019	Security Permission (Enable Assembly Execution)	
Reference:	.NET Framework Security Guide pg 38	IA Control: ECLP-1

## **5.19 APPNET0020: Security Permission (Skip Verification)**

**Description:** The Security permission Skip Verification controls the execution of code that is verified as being type safe.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.Security.Permissions.SecurityPermission.

## Example:

#### 7. Dev =

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

#### Example:

Level = Machine

#### Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

00240000480000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
- 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. Zone Trusted: Internet
  - 1.5.1. All code: Same site Web
- 1.6. ApplicationDirectory: Dev

#### Validate:

1. If the *Security* permission of *Skip verification* (*Flags="SkipVerification"*) is assigned to any non-default Code Group then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0020	Security Permission (Skip Verification)	
Reference:	.NET Framework Security Guide pg 39	IA Control: ECLP-1

## **5.20** APPNET0021: Security Permission (Allow Calls to Unmanaged Assemblies)

**Description:** The Security permission Allow Calls to Unmanaged Assemblies controls application access to applications not managed by the .Net Framework.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System. Security. Permissions. Security Permission.

## Example:

#### 7. Dev =

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

#### Example:

Level = Machine

## Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. Zone Trusted: Internet

1.5.1. All code: Same site Web **1.6. ApplicationDirectory: Dev** 

#### Validate:

1. If the *Security* permission of *Allow calls to unmanaged assemblies* (*Flags="UnmanagedCode"*) is assigned to a non-default Code Group then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0021	Security Permission (Allow Calls to Unmanaged Assemblies)	
Reference:	.NET Framework Security Guide pg 40	IA Control: DCSL-1

## **5.21 APPNET0022: Security Permission (Allow Policy Control)**

**Description:** The Security permission Allow Policy Control controls application access to it's the current security policy configuration.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.Security.Permissions.SecurityPermission.

## Example:

#### 7. Dev =

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

## Example:

Level = Machine

#### Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC

C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

1.2. Zone - Intranet: LocalIntranet 1.2.1. All code: Same site Web

1.2.2. All code: Same directory FileIO - 'Read, PathDiscovery'

1.3. Zone - Internet: Internet
1.3.1. All code: Same site Web
1.4. Zone - Untrusted: Nothing
1.5. Zone - Trusted: Internet
1.5.1. All code: Same site Web
1.6. ApplicationDirectory: Dev

#### Validate:

1. If the *Security* permission of *Allow Policy Control (Flags="ControlPolicy")* is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0022	Security Permission (Allow Policy Control)	
Reference:	.NET Framework Security Guide pg 40	IA Control: DCSL-1

## 5.22 APPNET0023: Security Permission (Allow Domain Policy Control)

**Description:** The Security permission Allow Domain Policy controls defines application access to its own application domain security policy.

#### Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System. Security. Permissions. Security Permission.

#### Example:

#### 7. Dev =

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

Example:

Level = Machine

## Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

00240000480000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  1.3.1. All code: Same site Web
  1.4. Zone Untrusted: Nothing
  1.5. Zone Trusted: Internet
  1.5.1. All code: Same site Web
  1.6. ApplicationDirectory: Dev

#### Validate:

1. If the *Security* permission of *Allow domain policy control* (*Flags="ControlDomainPolicy"*) is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0023	Security Permission (Allow Domain Policy Control)	
Reference:	.NET Framework Security Guide pg 41	IA Control: DCSL-1

## **5.23 APPNET0024: Security Permission (Allow Evidence Control)**

**Description:** The Security permission Allow Evidence Control is used to control an application's access to supply or modify evidence used to determine access to system resources.

#### Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.Security.Permissions.SecurityPermission.

## Example:

7. Dev =

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

Example:

Level = Machine

## Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
- 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. Zone Trusted: Internet
- 1.5.1. All code: Same site Web
- 1.6. ApplicationDirectory: Dev

#### Validate:

1. If the *Security* permission of *Allow evidence control* (*Flags="ControlEvidence"*) is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0024	Security Permission (Allow Evidence Control)	
Reference:	.NET Framework Security Guide pg 41	IA Control: DCSL-1

## **5.24** APPNET0025: Security Permission (Assert any Permission that Has Been Granted)

**Description:** The Security permission Assert any Permission that Has Been Granted controls application access to permissions assigned to any code in the assembly that called it.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.Security.Permissions.SecurityPermission.

## Example:

#### 7. Dev =

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

## Example:

Level = Machine

#### Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. Zone Trusted: Internet
  - 1.5.1. All code: Same site Web

## 1.6. ApplicationDirectory: Dev

#### Validate:

1. If the *Security* permission of *Assert* (*Flags*="*Assertion*") is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0025	Security Permission (Assert any Permission that Has Been Granted)	
Reference:	.NET Framework Security Guide pg 42	IA Control: DCSL-1

#### **5.25 APPNET0026: Performance Counter Permission**

**Description:** The Performance Counter permission controls application access to system performance monitoring resources.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System. Diagnostics. Performance Counter Permission.

## Example:

```
7. Dev =

<PermissionSet class="System.Security.NamedPermissionSet" version="1" Name="Dev">

<IPermission class="System.Diagnostics.PerformanceCounterPermission, System,

Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1">

<Machine name="server1">

<Category name="admin" access="Administer" />

</Machine>

</IPermission>

</PermissionSet>
```

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

#### Example:

Level = Machine

## Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet1.3.1. All code: Same site Web1.4. Zone Untrusted: Nothing1.5. Zone Trusted: Internet1.5.1. All code: Same site Web

# 1.6. ApplicationDirectory: Dev

#### Validate:

1. If the *Performance Counter* is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0026	Performance Counter Permission	
Reference:	.NET Framework Security Guide pg 44	IA Control: ECLP-1

#### 5.26 APPNET0027: Environment Variables Permission

**Description:** The Environment Variables permission controls application access to system environment variables and to other system resource names.

#### Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.Security.Permissions.EnvironmentPermission.

#### Example:

#### 7. Dev =

Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1"

Unrestricted="true" />

</PermissionSet>

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

#### Example:

Level = Machine

## Code Groups:

1. All code: Nothing

- 1.1. Zone MyComputer: FullTrust
  - 1.1.1. StrongName -

002400000480000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
- 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. Zone Trusted: Internet
  - 1.5.1. All code: Same site Web
- 1.6. ApplicationDirectory: Dev

#### Validate:

1. If the *Environment Variables* permission of *Grant assemblies access to all environment variables (unrestricted="true")* is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0027	Environment Variables Permission	
Reference:	.NET Framework Security Guide pg 48	IA Control: ECLP-1

## 5.27 APPNET0028: Event Log Permission

**Description:** The Event Log permission controls application access to event log resources defined on the system.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System. Diagnostics. EventLogPermission.

## Example:

## 7. Dev =

<PermissionSet class="System.Security.NamedPermissionSet" version="1" Name="Dev"> (IPermission class="System.Diagnostics.EventLogPermission, System, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" version="1" Unrestricted="true" /> (IPermissionSet)

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

## Example:

Level = Machine

## Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
- 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
- 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. Zone Trusted: Internet
- 1.5.1. All code: Same site Web
- 1.6. ApplicationDirectory: Dev

#### Validate:

1. If the *Event Log* permission of *Grant assemblies unrestricted access to all event logs* (*unrestricted="true"*) is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0028	Event Log Permission	
Reference:	.NET Framework Security Guide pg 49	IA Control: ECLP-1

#### **5.28 APPNET0029: Registry Permission**

**Description:** The Registry permission controls application access to the Windows registry.

Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.Security.Permissions.RegistryPermission.

#### Example:

#### 7. Dev =

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

## Example:

Level = Machine

## Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

00240000480000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. Zone Trusted: Internet
- 1.5.1. All code: Same site Web

#### 1.6. ApplicationDirectory: Dev

#### Validate:

1. If a Permission Set with the *Registry* permission of *Grant Assemblies unrestricted* access to the registry (unrestricted="true") is assigned to a Non-default Code Group that does not use a Strong Name, Publisher, or Hash as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0029	Registry Permission	
Reference:	.NET Framework Security Guide pg 49	IA Control: DCSL-1

## 5.29 APPNET0030: Directory Services Permission

**Description:** The Directory Services permission controls application access to the system Directory Service resources.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to review the non-default permission sets with the permission System.DirectoryServices.DirectoryServicesPermission.

## Example:

```
7. Dev =
```

Use caspol to list the non-default code groups and their corresponding permission sets to determine which non default code groups use the permission sets in the previous step.

## Example:

Level = Machine

## Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust
    - 1.1.1. StrongName -

002400000480000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. Zone Trusted: Internet
- 1.5.1. All code: Same site Web

## 1.6. ApplicationDirectory: Dev

#### Validate:

- 1. If the *Directory Services* permission of *Grant assemblies unrestricted access to all directory service paths (unrestricted="true")* is assigned to a non-default Code Group that does not use a Strong Name as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.
- 2. If the *Directory Services* permission of *Write* () or Browse() is assigned to a non-default Code Groups that does not use a Strong Name as the membership condition and whose assignment criteria has not been reviewed and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0030	Directory Services Permission	
Reference:	.NET Framework Security Guide pg 50	IA Control: DCSL-1

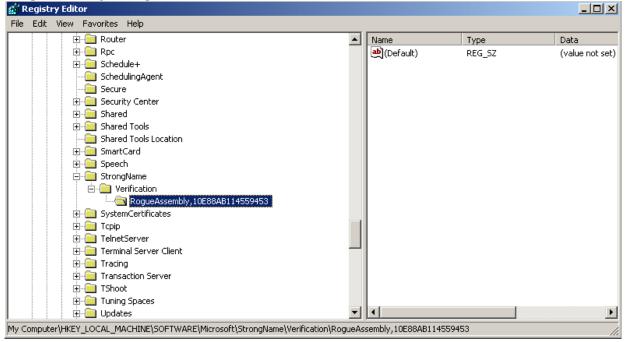
## 5.30 APPNET0031: No Strong Name Verification

**Description:** The Strong Name Membership Condition establishes the requirement for all code defined in the group to be configured with a Strong Name. Strong Name verification should not be omitted in a production environment.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use regedit to review the windows registry for assemblies omitting strong name verification in the registry entry HKLM\Software\Microsoft\StrongName\Verification. There should be no assemblies list under this registry key.

Sample Finding Example:



#### Validate:

1. If any assemblies are listed as omitting Strong Name verification in a production environment then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0031	No Strong Name Verification	
Reference:	.NET Framework Security Guide pg 57	IA Control: DCSL-1

## **5.31 APPNET0032: First Match Code Groups**

**Description:** The First Match Code Group is used to control the depth to which a branch of the code group tree is traversed when assigning membership to assemblies.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to list the code groups and for the First Match Code Group type.

## Example:

Microsoft (R) .NET Framework CasPol 2.0.50727.42

Copyright (c) Microsoft Corporation. All rights reserved.

Security is ON Execution checking is ON Policy change prompt is ON

Level = Machine

#### Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust (LevelFinal)
    - 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. (First Match) Zone Trusted: Internet
  - 1.5.1. All code: Same site Web
- 1.6. Publisher -

30818902818100E47B359ACC061D70C237B572FA276C9854CFABD469DFB74E77D026630

BEE2A0C2F8170A823AE69FDEB65704D7FD446DEFEF1F6BA12B6ACBDB1BFA7B9B595 AB9A40636467CFF7C73F198B53A9A7CF177F6E7896EBC591DD3003C5992A266C0AD9F BEE4E2A056BE7F7ED154D806F7965F83B0AED616C192C6416CFCB46FC2F5CFD020301 0001: FullTrust

Success

#### Validate:

- 1. If First Match Code Groups are used and the site does not have documentation regarding their use of First Match Code Groups then this is a finding.
- 2. Ask the System Administrator to verify the CAS policy is loaded is not the default policy. The CLR will load the default CAS policy when the policy file is corrupted. If the security policy is not loaded this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0032	First Match Code Groups	
Reference:	.NET Framework Security Guide pg 59	IA Control: DCSL-1

## 5.32 APPNET0033: File Code Groups, Net Code Groups

**Description:** The File Code Groups and Net Code Groups are used to establish directory access and web site connections respectively by the application

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Check for the CAS configuration files for any non-default File or Net Code groups. Verify .Net Configuration Files for Enterprise, Machine and User configurations for all installed versions of the .Net Framework. Search for any entries in the configuration file where the code group class is System.Security.Policy.NetCodeGroup or System.Security.Policy.FileCodeGroup

See Section 4.6 of the checklist for .Net Configuration File Locations

#### Examples:

<CodeGroup class="System.Security.Policy.NetCodeGroup

<CodeGroup class="System.Security.Policy.FileCodeGroup

#### Validate:

- 1. If File or Net Code Groups are used and the site does not have documentation regarding their use then this is a finding.
- 2. Ask the System Administrator to verify the CAS policy is loaded is not the default policy. The CLR will load the default CAS policy when the policy file is corrupted. If the security policy is not loaded this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID: APPNET0033	File Code Groups, Net Code groups	
Reference:	.NET Framework Security Guide pg 61	IA Control: DCSL-1

## 5.33 APPNET0035: Level Final Code Group Attribute

**Description:** The Level Final Code Group Attribute prevents permission sets farther down in the Code Group hierarchy from being applied to the assembly.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to list the code groups and and the Level Final code group attribute...

## Example:

Microsoft (R) .NET Framework CasPol 2.0.50727.42 Copyright (c) Microsoft Corporation. All rights reserved.

Security is ON Execution checking is ON Policy change prompt is ON

Level = Machine

## Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust (LevelFinal)
    - 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. (First Match) Zone Trusted: Internet
  - 1.5.1. All code: Same site Web
- 1.6. Publisher -

30818902818100E47B359ACC061D70C237B572FA276C9854CFABD469DFB74E77D026630 BEE2A0C2F8170A823AE69FDEB65704D7FD446DEFEF1F6BA12B6ACBDB1BFA7B9B595 AB9A40636467CFF7C73F198B53A9A7CF177F6E7896EBC591DD3003C5992A266C0AD9F BEE4E2A056BE7F7ED154D806F7965F83B0AED616C192C6416CFCB46FC2F5CFD020301

0001: FullTrust

Success

#### Validate:

1. If Level Final Code Groups are used and the site does not have documentation regarding their use then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0035	Level Final Code Group Attribute	
Reference:	.NET Framework Security Guide pg 70	IA Control: DCSL-1

## 5.34 APPNET0041: Zone Membership Condition

**Description:** The Zone Membership Condition determines policy level based on the URL zone of the application origin.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to list the code groups and the zone membership condition.

## Example:

Microsoft (R) .NET Framework CasPol 2.0.50727.42 Copyright (c) Microsoft Corporation. All rights reserved.

Security is ON Execution checking is ON Policy change prompt is ON

Level = Machine

## Code Groups:

- 1. All code: Nothing
  - 1.1. **Zone** MyComputer: FullTrust (LevelFinal)
    - 1.1.1. StrongName -

0024000004800000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. **Zone** Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. **Zone** Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. **Zone** Untrusted: Nothing
- 1.5. (First Match) Zone Trusted: Internet
  - 1.5.1. All code: Same site Web

#### 1.6. Publisher -

30818902818100E47B359ACC061D70C237B572FA276C9854CFABD469DFB74E77D026630 BEE2A0C2F8170A823AE69FDEB65704D7FD446DEFEF1F6BA12B6ACBDB1BFA7B9B595 AB9A40636467CFF7C73F198B53A9A7CF177F6E7896EBC591DD3003C5992A266C0AD9F BEE4E2A056BE7F7ED154D806F7965F83B0AED616C192C6416CFCB46FC2F5CFD020301

0001: FullTrust

Success

#### Validate:

1. If a *Zone* membership condition is used for a non-default code group this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0041	Zone Membership Condition	
Reference:	.NET Framework Security Guide pg 96	IA Control: DCSL-1

## 5.35 APPNET0045: Administering CAS Policy

**Description:** The use of the CAS policy can be enabled or disabled on the system.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to list the code groups for the enterprise policy of Search for the occurrence of Security is OFF.

## Example:

C:\WINDOWS\Microsoft.NET\Framework\v1.1.43\caspol -en -lg

Microsoft (R) .NET Framework CasPol 1.1.4322.573

Copyright (C) Microsoft Corporation 1998-2002. All rights reserved.

## **Security is OFF**

Execution checking is ON Policy change prompt is ON

Level = Enterprise

## Code Groups:

1. All code: FullTrust

Success

#### Validate:

1. If CAS Policy has been disabled then this is a finding.

Category:	CAT I	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0045	Administering CAS Policy	
Reference:	.NET Framework Security Guide pg 121	IA Control: DCSL-1

## 5.36 APPNET0046: Administering the Windows Environment for Test Root Certificates

**Description:** The Windows system may be configured to allow use of certificates that are designated as being for test use.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use regedit as in Section 4.8 of the checklist to determine the software publishing state values. Review the values of the "Trust the Test Root" for all the users of the system.

#### Validate:

- 1. If *Trust the Test Root* is set to TRUE on a production system then this is a finding.
- 2. If *Trust the Test Root* is set to TRUE on a development system and the IAO has not approved the setting then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0046	Administering the Windows Environment for Test Root Certificates	
Reference:	.NET Framework Security Guide pg 127	IA Control: DCSL-1

## 5.37 APPNET0047: Administering the Windows Environment for Expired Certificates

**Description:** The Windows system may be configured to check the application for use of expired certificates.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use regedit as in Section 4.8 of the checklist to determine the software publishing state values. Review the values of the "Use expiration date on certificates" for all the users of the system.

#### Validate:

- 1. If *Use expiration date on certificates* is set to FALSE on a production system then this is a finding.
- 2. If *Use expiration date on certificates* is set to FALSE on a development system and the IAO has not approved the setting then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID: APPNET0047	Administering the Windows Environment for Expired Certificates	
Reference:	.NET Framework Security Guide pg 127	IA Control: DCSL-1

## 5.38 APPNET0048: Publisher Membership Condition

**Description:** The Publisher Member Condition requires member code to be certified using certificates originating from a trusted source.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to list the code groups and the publisher membership condition.

#### Example:

Microsoft (R) .NET Framework CasPol 2.0.50727.42

Copyright (c) Microsoft Corporation. All rights reserved.

Security is ON Execution checking is ON Policy change prompt is ON

Level = Machine

## Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust (LevelFinal)
    - 1.1.1. StrongName -

00240000480000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
- 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. (First Match) Zone Trusted: Internet
  - 1.5.1. All code: Same site Web
- 1.6. Publisher -

30818902818100E47B359ACC061D70C237B572FA276C9854CFABD469DFB74E77D026630 BEE2A0C2F8170A823AE69FDEB65704D7FD446DEFEF1F6BA12B6ACBDB1BFA7B9B595 AB9A40636467CFF7C73F198B53A9A7CF177F6E7896EBC591DD3003C5992A266C0AD9F BEE4E2A056BE7F7ED154D806F7965F83B0AED616C192C6416CFCB46FC2F5CFD020301 0001: FullTrust

Success

#### Validate:

1. If the *Publisher Membership Condition* is used on a Non-default Code Group and the use of that Publishers certificate is not documented and approved by the IAO then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0048	Publisher Membership Condition	
Reference:	.NET Framework Security Guide pg 128	IA Control: DCSL-1

## 5.39 APPNET0049: Administering the Windows Environment for Revoked Certificates

**Description:** This checks the setting that determines whether certificates are checked for revocation status.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use regedit as in Section 4.8 of the checklist to determine the software publishing state values. Review the values of the "Check the revocation list" for all the users of the system.

#### Validate:

- 1. If *Check the revocation list* is set to FALSE on a production system then this is a finding.
- 2. If *Check the revocation list* is set to FALSE on a development system and the IAO has not approved the setting then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0049	Administering the Windows Environment for Revoked Certificates	
Reference:	.NET Framework Security Guide pg 128	IA Control: DCSL-1

# **5.40 APPNET0050:** Administering the Windows Environment for Unknown Certificate Status

**Description:** The settings reviewed in this check determine the handling of certificates with differing unknown statuses due to temporary unavailability of a certificate verification service. For example, certificate verification that is dependent on real-time access to a certificate status server could be unavailable due to a break in network communications.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use regedit as in Section 4.8 of the checklist to determine the software publishing state values. Review the values of the following for all the users of the system.

- Offline revocation server OK (Individual)
- Offline revocation server OK (Commercial)
- Java offline revocation server OK (Individual)
- Java offline revocation server OK (Commercial)

#### Validate:

- 1. If any of the settings listed above are set to TRUE on a production system then this is a finding.
- 2. If any of the settings listed above are set to TRUE on a development system and the IAO has not approved the setting then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID: APPNET0050	Administering the Windows Environment for Unknown Certificate Status	
Reference:	.NET Framework Security Guide pg 129	IA Control: DCSL-1

# **5.41 APPNET0051: Administering the Windows Environment for Time Stamped Certificate Revocation**

**Description:** This Windows setting determines whether the system requires certificates to be time stamped to verify the certificate is current.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use regedit as in Section 4.8 of the checklist to determine the software publishing state values. Review the values of the following for all the users of the system.

- Invalidate version 1 signed objects
- Check the revocation list on Time Stamp Signer

#### Validate:

- 1. If any of the settings listed above are set to FALSE on a production system then this is a finding.
- 2. If any of the settings listed above are set to FALSE on a development system and the IAO has not approved the setting then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0051	Administering the Windows Environment for Time Stamped Certificate	
Reference:	.NET Framework Security Guide pg 130	IA Control: DCSL-1

## **5.42 APPNET0052: Strong Name Membership Condition**

**Description:** The Strong Name Membership condition requires that member assemblies be defined with Strong Names.

Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Use caspol to list the code groups and the strong name membership condition.

## Example:

Microsoft (R) .NET Framework CasPol 2.0.50727.42 Copyright (c) Microsoft Corporation. All rights reserved.

Security is ON Execution checking is ON Policy change prompt is ON

Level = Machine

#### Code Groups:

- 1. All code: Nothing
  - 1.1. Zone MyComputer: FullTrust (LevelFinal)
    - 1.1.1. StrongName -

00240000480000940000006020000002400005253413100040000100010007D1FA57C4A ED9F0A32E84AA0FAEFD0DE9E8FD6AEC8F87FB03766C834C99921EB23BE79AD9D5DC C1DD9AD236132102900B723CF980957FC4E177108FC607774F29E8320E92EA05ECE4E82 1C0A5EFE8F1645C4C0C93C1AB99285D622CAA652C1DFAD63D745D6F2DE5F17E5EAF0 FC4963D261C8A12436518206DC093344D5AD293: FullTrust

- 1.2. Zone Intranet: LocalIntranet
  - 1.2.1. All code: Same site Web
  - 1.2.2. All code: Same directory FileIO 'Read, PathDiscovery'
- 1.3. Zone Internet: Internet
  - 1.3.1. All code: Same site Web
- 1.4. Zone Untrusted: Nothing
- 1.5. (First Match) Zone Trusted: Internet
  - 1.5.1. All code: Same site Web
- 1.6. Publisher -

30818902818100E47B359ACC061D70C237B572FA276C9854CFABD469DFB74E77D026630 BEE2A0C2F8170A823AE69FDEB65704D7FD446DEFEF1F6BA12B6ACBDB1BFA7B9B595 AB9A40636467CFF7C73F198B53A9A7CF177F6E7896EBC591DD3003C5992A266C0AD9F BEE4E2A056BE7F7ED154D806F7965F83B0AED616C192C6416CFCB46FC2F5CFD020301

0001: FullTrust

Success

#### Validate:

1. If a Strong Name membership condition is assigned to a non-default Code Group ensure the private key is adequately protected by the software developer. Ask the System Administrator how the private keys are protected. If the private key is not adequately protected then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID: APPNET0052	Strong Name Membership Condition	
Reference:	.NET Framework Security Guide pg 132	IA Control: DCSL-1

## 5.43 APPNET0054: Administering CAS Policy for Group Names

**Description:** The use of duplicate code group names within a level of the CAS policy can lead to mis-assignment of permissions.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Review the caspol.exe listing for all code groups. Review all code group names. The code group names follow a sequential number at the far left of the file or screen. Code attributes for the code group are numbered and indented below each code group name.

#### Validate:

1. If non-unique Code Group names are used within a CAS security policy level (Enterprise, Machine, User) then this is a finding.

Category:	CAT III	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID: APPNET0054	Administering CAS Policy for Group Names	
Reference:	.NET Framework Security Guide pg 145	IA Control: DCBP-1

## 5.44 APPNET0055: Administering CAS Policy and Policy Configuration File Backups

**Description:** CAS Policy and CAS Policy Configuration files are required for a complete system baseline and disaster recovery event.

## Applies to Versions 1.0, 1.1, 2.0. 3.0 & 3.5

#### Validate:

- 1. Ask the System Administrator if all CAS policy and policy configuration files are included in the system backup. If they are not then this is a finding.
- 2. Ask the System Administrator if the policy and configuration files are backed up prior to migration, deployment, and reconfiguration. If they are not then this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID : APPNET0055	Administering CAS Policy and Policy Configuration File Backups	
Reference:	.NET Framework Security Guide pg 164	IA Control: CODB-1, CODB-2

## **5.45** APPNET0060: Remoting Services Authentication and Encryption

**Description:** The *typefilterlevel="Full"* attribute allows unfiltered code to access system resources.

## Applies to: Versions 1.0, 1.1, 2.0. 3.0 & 3.5

Check for the CAS configuration files for *typefilterlevel="Full"* This allows references to custom client objects to be passed as parameters.

Verify .Net Configuration Files for Enterprise, Machine and User configurations for all installed versions of the .Net Framework. Search for any entries in the configuration file where typeFilterLevel="Full" Ask the System Administrator what encryption and authentication methods are in place for the remoting channels.

See Section 4.6 of the checklist for .Net Configuration File Locations

## Example:

#### Validate:

- 1. In Version 1.0 of the .NET Framework if authentication and encryption are not used for all remoting channels then this is a finding.
- 2. In Version 1.1 or above of the .NET Framework if authentication and encryption are not used for all remoting channels when the *typefilterlevel="Full"*, *then this is a finding*.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID: APPNET0060	Remoting Services Authentication and Encryption	
Reference:	.NET Framework Security Guide pg 202	IA Control: DCSL-1

## **5.46 APPNET0061: Unsupported .Net Framework Versions**

**Description:** Verify the installed .Net Frameworks are still supported by Microsoft.

**Applies to:** All Versions

Determine which versions of the .NET Framework are installed by opening the directory %systemroot%\Microsoft.NET\Framework. The following folders contain the released versions of the .NET Framework:

v3.5

v3.0

v2.0.50727

v1.1.4322

v1.0.3705

Search for all the Mscorlib.dll files in %systemroot%\Microsoft.NET\Framework.. Click on each of the files and view properties and click Version tab to determine the version installed. If there is no Mscorlib.dll, there is no installed version of .Net Framework in that directory.

More specific information on determining versions of .Net Framework installed can be found at the following link. <a href="http://support.microsoft.com/kb/318785">http://support.microsoft.com/kb/318785</a>

Verify that extended support is available for the installed versions of .Net Framework. Verify the .Net Framework support dates with Microsoft Product Lifecycle Search link. http://support.microsoft.com/lifecycle/search/?sort=PN&alpha=.NET+Framework

.NET Framework 1.0	7/14/2009
.NET Framework 1.1	10/8/2013
.NET Framework 2.0	4/12/2016
.NET Framework 3.0	4/11/2017
.NET Framework 3.5	4/10/2018

#### Validate:

If the any versions of the Net Framework are installed and extended support is no longer available this is a finding.

Category:	CAT II	Level: Gold MCL: 1-CSP;2-CSP;3-CSP
SDID: APPNET0061	Unsupported .Net Framework Versions	
Reference:	DoDI 8500.2 IA Controls	IA Control: COMS-1 COMS-2

#### 6. VMS Process and Procedures

## **6.1 System Administrator**

The following instructions are to be used by system administrators for updating the status of the .NET Framework vulnerabilities in VMS 6.0.

- 1. Log in to VMS 6.0.
- 2. Select *Asset/Finding Maint*. from the menu in the left panel.
- 3. Select *Assets/Findings* from the sub menu.
- 4. In the right panel navigate through the tree to the appropriate location and expand the *Computing* branch of the tree.
- 5. If the asset you wish to update does not exist the following steps will allow you to create a new asset. If it does exist, proceed to Step 7.
- 6. Press the *Create Computing Asset* button located next to the *Computing* tree branch.
- 7. Verify that the identifying information that appears to the right is correct for the asset you wish to update. If you are creating a new asset you should fill this information in now. Please note that any information entered or changed is not saved until you press the *Save* button.
- 8. If creating a new asset, update the *Asset Posture* to include the correct Operating System and applications as appropriate.
- 9. Add the appropriate .NET Framework elements to the *Asset Posture*.
  - i. Select the Asset Posture tab.
  - ii. Expand the Computing branch.
  - iii. Expand the Application branch.
  - iv. Expand the MSdotNetFramework branch.
  - v. Select the appropriate Framework version(s).
  - vi. Press the >> button to add the selected elements to the asset posture.
  - vii. Press the Save button.
- 10. The selected .NET Frameworks will now be targets under the application and you may now update the status of the vulnerabilities.

## 6.2 Reviewer

The following instructions are to be used by a reviewer for updating the status of the .NET Framework vulnerabilities in VMS 6.0.

- 1. Log in to VMS 6.0.
- 2. Select *Asset/Finding Maint*. from the menu in the left panel.
- 3. Select *Assets/Findings* from the sub menu.
- 4. In the right panel navigate through the tree to the appropriate *Visit* and expand the *Computing* branch of the tree.
- 5. If the asset you wish to update does not exist the following steps will allow you to create a new asset. If it does exist, proceed to Step 7.
- 6. Press the Create Computing Asset button located next to the Computing tree branch.
- 7. Verify that the identifying information that appears to the right is correct for the asset you wish to update. If you are creating a new asset you should fill this information in now. Please note that any information entered or changed is not saved until you press the *Save* button.

- 8. If creating a new asset, update the *Asset Posture* to include the correct Operating System and applications as appropriate.
- 9. Add the appropriate .NET Framework elements to the *Asset Posture*.
  - i. Select the Asset Posture tab.
  - ii. Expand the Computing branch.
  - iii. Expand the Application branch.
  - iv. Expand the MSdotNetFramework branch.
  - v. Select the appropriate Framework version(s).
  - vi. Press the >> button to add the selected elements to the asset posture.
  - vii. Press the Save button.
- 10. The selected .NET Frameworks will now be targets under the application and you may now update the status of the vulnerabilities.