NICE

Third Party Technical Guidelines

Configuration Guide

Release: Cross-Release

NICE Engage Platform 6.x / NICE Interaction Management 4.1 **Real-Time Solutions 4.9** NICE Perform 3.2 / 3.5

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For assistance, contact your local supplier or nearest NICE Customer Service Center:

EMEA Region (Europe, Middle East, Africa) Tel: +972-9-775-3800 Fax: +972-9-775-3000 email: support@nice.com

The Americas Region (North, Central, South America) Tel: 1-800-6423-611 Fax: +720-264-4012 email: support.americas@nice.com United Kingdom Tel: +44-8707-22-4000 Fax: +44-8707-22-4500 APAC Region (Asia/Pacific) Tel: +852-8338-9818 Fax: +852-2802-1800 email: support.apac@nice.com Israel Tel: 09-775-3333 Fax: 09-775-3000

email: support@nice.com

Germany Tel: +49-(0)-69-97177-0 Fax: +49-(0)-69-97177-200 North America Tel: 1-800-663-5601 Fax: +201-356-2197 email: na_ sales@nice.com

France

Tel: +33-(0)1-41-38-5000 Fax: +33-(0)1-41-38-5001 International Headquarters-Israel Tel: +972-9-775-3100 Fax: +972-9-775-3070 email: info@nice.com

Hong-Kong Tel: +852-2598-3838 Fax: +852-2802-1800

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Visit the NUG Website at www.niceusergroup.org and follow the instructions.

All queries, comments, and suggestions are welcome! Please email: <u>nicebooks@nice.com</u>

For more information about NICE, visit www.nice.com

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1

Introduction

The Third-Party Technical Guidelines is a one-stop-shop document for information about third-party software application compatibility with NICE systems.

This document should be used by NICE customers and customer service organizations in order to verify the compatibility of third-party software to NICE products in addition to specific configuration information.

This document consolidates information published in a number of Technical Notes listed in the Discontinued Technical Notes appendix of this document, see Discontinued Technical Notes on page 267.

This document serves as general guidelines and applies to all existing NICE Engage Platform/NICE Interaction Management versions.

Updates for specific product versions may be issued separately based on these guidelines. NICE, at its sole discretion, may decide to change the general guidelines or deviate from them for a specific product version.

This document should apply in cases where it contradicts a previous Technical Note.

This document will be updated periodically upon availability of new third party software versions following the rules of certification as described in the *Third-Party Software Certification Policy*.

Revision	Modification Date	Software Version	Description
D6	April 2017	NICE Engage Platform 6.6	 Updated SQL 2014 requirements. See SQL Server 2014 on page 217.
			 Updated table for .NET Framework 4.6 support. See Overview on page 174.
D5	January 2017	NICE Engage	Removed references to sunset NICE products.
	Platform 6.6	Platform 6.6	 Updated .NET Framework, Office Scan and Trend Micro versions
			 Updated remote connection guidelines. See Remote Connection to Customers on page 265.
			 Added KBs Delivered by Microsoft and NICE Certification Policy on page 220
			 Added KB3182203 and KB3192321 to Microsoft Daylight Savings Time Updates on page 229.
			 Added support of .NET Framework 4.6.2 for NICE Engage Platform 6.x.
			 Removed the requirement to add NICE Web Application URL to the Compatibility View Settings List for NICE Engage Platform in Adding the NICE Web Application URL to the Compatibility View Settings List on page 158 and Internet Explorer 11 on page 160
			 Added secured sites to FIPS limitation regarding spell check. See Spell Check Limitation on page 228.

Revision	Modification Date	Software Version	Description
D4	October 2016	NICE Engage	 Updated Microsoft Daylight Savings Time Updates on page 229
		Platform 6.5	 Updated NICE Products and Antivirus Certifications Matrix - NICE Interaction Management 4.1 in NICE Products and Antivirus Certification Matrices on page 244
			 Updated table in Microsoft Software Service Packs Certified by NICE Systems on page 23
D3	September	NICE Engage	 Updated Microsoft Software Service Packs Certified by NICE Systems on page 23
	2016	Platform 6.5	 Added NICE Interaction Management information to Client Applications Compatibility on page 117
			Updated Internet Explorer 8 on page 145
D2	August 2016	NICE Engage	 Updated Microsoft Software Service Packs Certified by NICE Systems on page 23
		Platform 6.5	 Added NICE Interaction Management information to Client Applications Compatibility on page 117
			 Updated Sophos version in NICE Products and Antivirus Certifications Matrix - NICE Engage Platform 6.x table in NICE Products and Antivirus Certification Matrices on page 244
			 Added KBs to table in Microsoft Daylight Savings Time Updates on page 229

Revision	Modification Date	Software Version	Description	
D1	July 2016	NICE Engage Platform 6.5	 Updated supported NICE releases with Microsoft Service Packs. See Microsoft Software Service Packs Certified by NICE Systems on page 23. 	
			 Updated Engage client compatibility for Windows 10. See Client Applications Compatibility on page 117. 	
			 Updated virus certifications for NICE Interaction Management. See General Antivirus on page 234. 	
DO	June 2016	NICE Engage	 Added requirements for .NET Framework 4.6. See Microsoft .NET Framework 4.6 Requirements on page 185 	
	Pla		Platform 6.5	 Corrected requirements for .NET Framework 4.5. See Microsoft .NET Framework 4.5 Requirements on page 182.
			Added Windows 10 32-bit/64-bit on page 117.	
			 Added Google Chrome with the IE Tab Extension on page 165. 	
С9	February	NICE Engage	 Added new Microsoft Software service packs to Microsoft Software Service Packs Certified by 	
	2016	Platform 6.4	NICE Systems on page 23	
			 Updated the Synopsis in Internet Explorer 11 on page 160 	
			 Added Prerequisite Updates for Internet Explorer 11 on page 160 	
			 Updated Conclusions on page 161 in Internet Explorer 11 on page 160 	
			 Added new Microsoft DST Updates to Microsoft Daylight Savings Time Updates on page 229 	

Revision	Modification Date	Software Version	De	escription
C8	November	NICE Engage	-	Updated Microsoft Server Operating Systems on page 35
	2015	Platform 6.4	-	Updated product and release Information under the following:
				Internet Explorer 8 on page 145
				Internet Explorer 9 on page 154
				Internet Explorer 10 on page 157
				Internet Explorer 11 on page 160
			-	Updated <i>Sentinel 6.3,</i> to <i>Sentinel 6.X</i> throughout the guide.
С7	August 2015	NICE Engage Platform 6.4 NICE	-	Added NICE Sentinel to Microsoft Software Service Packs Certified by NICE Systems on page 23
	Interactions Management 4.1	•	Updated antivirus information adding support for McAfee ePO 4.8. See:	
			 Table 12-1: NICE Products and Antivirus Certifications Matrix - NICE Interaction Management 4.1 	
				 Table 12-2: NICE Products and Antivirus Certifications Matrix - NICE Engage Platform 6.x
			•	Updated Service Pack information for Microsoft products in Microsoft Software Service Packs Certified by NICE Systems on page 23

Revision	Modification Date	Software Version	De	escription		
C6	May 2015	NICE Engage		Updated for NICE Engage Platform 6.3.		
		Platform		Updated Anti-virus information		
		NICE	-	Added NICE Sentinel 2.5/4.1 to the following sections:		
		Management		Internet Explorer on page 123		
		4.1		 Microsoft SQL Server on page 187 		
		NICE Real		 Microsoft .NET Framework on page 173 		
		Time Solutions 4.9	Solutions 4.9	•	Removed XBAP information from guide. See the <i>Workstation Setup Guide</i> .	
					Updated registry path for .NET Framework, see Microsoft .NET Framework 4.5 Requirements on page 182	
					•	Added the following chapters:
						 SQL Server 2012 on page 216
					 SQL Server 2014 on page 217 	
					•	Added configuring Windows for FIPS. See Federal Information Processing Standards (FIPS) on page 225
				-	Updated the following Internet Explorer browsers, regarding Sentinel Release 6.3:	
					Internet Explorer 9 on page 154	
					Internet Explorer 10 on page 157	
				Internet Explorer 11 on page 160		
C5	November 2014	4.1		Added section. Added a Before You Begin section.		

Revision	Modification Date	Software Version	Description	
C4	C4 September 6.3 2014	September 6.3	6.3	Updated flowing topics:
			 Microsoft Software Service Packs Certified by NICE Systems on page 23 	
			Internet Explorer on page 123	
			 Microsoft .NET Framework on page 173 	
			 Microsoft Daylight Savings Time Updates on page 229 	
		 NICE Products and Antivirus Certification on page 244 	 NICE Products and Antivirus Certification Matrices on page 244 	
			 Updated 	
			Added the topic .	
СЗ	September 2014	4.1.4x	 Updated NICE Products and Antivirus Certification Matrices on page 244(added separate table for NICE Interaction Management Release 4.1). 	
			Added	
C2	May 2014	4.1.47	 Added Windows 8/8.1 support for client machines. See Windows 8 and Windows 8.1 32- bit/64-bit on page 111. 	
		-	 Updated the information for Internet Explorer 11 on page 160. 	
			 Added about XBAP limitations. See Microsoft .NET Framework 4.0 and up with NICE Interaction Management 4.1.46 and Above on page 181. 	
			 DCR 1004: A solution to Installing XBAP When Hardening Kit is Installed was found and implemented. The Topic was removed from the guide. 	

Revision	Modification Date	Software Version	Description
C1	March 2014		Added Internet Explorer 11 support. See Internet Explorer 11 on page 160.
			Added an SEP limitaion. See SEP on page 236.
В9	January 2014		Fixed information regarding Microsoft Internet Explorer 10. See Internet Explorer 10 on page 157.
			Removed the Citrix section. The information is now in the Virtualization Guide.
B8	December		Fixed issue with landscape page not displaying correctly
	2013		in PDF for Table 4-2: Compatibility With Microsoft
			Windows 7 32-bit and 64-bit by Release
B7	November		Updated Microsoft Client Operating Systems:
	2013		 Updated Reporter Viewer on page 103, and NICE ScreenAgent on page 104.
			 Added PO Client and NICE Insight to Impact Bridge on page 106
			 Updated Manually Installing Client Applications on page 107 (updated the note that appears before the procedure).
			Added section for Release 4.1.46 for XBAP. See Microsoft .NET Framework 4.5 Requirements on page 182 and Microsoft .NET Framework 4.0 and up with NICE Interaction Management 4.1.46 and Above on page 181.

Revision	Modification Date	Software Version	Description
B6	October 2013		 Updated Internet Explorer 10 on page 157. Added the section Adding the NICE Web Application URL to the Compatibility View Settings List on page 158.
			 Added the appendix, Using Real-Time Solutions with App-V on page 271.
			 Added the appendix Using Real-Time Solutions with Citrix Streaming on page 275.
B5	July 2013		Updated Internet Explorer on page 123 (small correction in the Contents).
B4	July 2013		 Updated Table 2-1: Microsoft Software Service Packs certified by NICE Systems
			Added Internet Explorer 10 on page 157
			 Updated Microsoft Daylight Savings Time Updates on page 229.
			 Updated General Limitations on page 235
			 Updated NICE Products and Antivirus Certifications Matrix - NICE Interaction Management 4.1 on page 245 (added: McAfee 8.8/8.8i and Sophos 10.2)
B3	March 2013		 Added Microsoft .NET Framework 4.5 Requirements on page 182
			 Updated NICE Web Applications Known Issues with Internet Explorer 8 on page 146
			 Updated NICE Web Applications Known Issues with Internet Explorer 9 on page 155

Revision	Modification Date	Software Version	De	escription
B2	December 2012		-	Replaced SP1 with SP2 for all SQL 2008 R2 in Table 2-1: Microsoft Software Service Packs certified by NICE Systems
			-	Updated BSF Tool kit for NICE Perform Releases 3.1 and 3.2 - Not Supported on Windows 7 64 bit. See Table 4-2: Compatibility With Microsoft Windows 7 32-bit and 64-bit by Release
			-	Updated VRA Compatibility With Microsoft Windows 7 for NPR4.1 in Table 4-2: Compatibility With Microsoft Windows 7 32-bit and 64-bit by Release
			-	Added supported Internet Explorer version by Sentinel Client. See Internet Explorer on page 123.
			-	Updated IE8 General Description and Conclusions on page 145.
			•	Updated IE9 General Description and Conclusions on page 154.
				Added McAfee limitation on page 236.
			-	Added TDM Logger 9.4 with Antivirus Certification in NICE Products and Antivirus Certifications Matrix - NICE Interaction Management 4.1 on page 245.
				Added Trend Micro OfficeScan 10.5 and Trend Micro OfficeScan 10.6 to NICE Products and Antivirus Certifications Matrix - NICE Interaction Management 4.1 on page 245.

Revision	Modification Date	Software Version	Description
B1	July 2012		 Added information for avoiding false positives to SEP on page 236.
			 Added information to NICE Products and Antivirus Certifications Matrix - NICE Interaction Management 4.1 on page 245.
			 Updated the table in Microsoft Daylight Savings Time Updates on page 229.
BO	January 2012		 Updated Windows 7 32-bit/64-bit on page 99.
A9	November 2011		 Added SP3 for SQL Server 2008 in Microsoft Software Service Packs Certified by NICE Systems on page 23.
			 Added information regarding machine and domain names with non-ASCII characters in Localization on page 86.
			 Added note regarding support for 32-bit version Internet Explorer in Internet Explorer on page 123.
A8	November 2011		 Added SP1 for SQL Server 2008 R2 in Microsoft Software Service Packs Certified by NICE Systems on page 23.
			 Updated ROD Client information in Windows 7 32-bit/64-bit on page 99
			 Added Microsoft .NET Framework 4.0 Requirements on page 179
			 Updated DST patch list in Microsoft Daylight Savings Time Updates on page 229.
			 Added McAfee ePO 4.6 in McAfee ePO on page 235, General Antivirus on page 234, and NICE Products and Antivirus Certifications Matrix NICE Interaction Management 4.1 on page 245.
			 Added Sophos exclusions in Sophos on page 244.

Revision	Modification Date	Software Version	Description
A7	September 2011		 Updated Table 2-1: Microsoft Software Service Packs certified by NICE Systems
A6	July 2011		 Updated Remote Connection to Customers for Microsoft Windows Server 2008. Added support for Internet Explorer 6. See Internet Explorer 6 on page 125 Added Sophos 9.7.
A5	June 2011		 Formatting changes. Added EPO 4.5 to NICE Products and Antivirus Certifications Matrix - NICE Interaction Management 4.1 on page 245
A4	May 2011		 Added NICE Interaction Management Release 4.1 compatibility. Updated Compatibility with Microsoft Windows 7 for 32/64 bit. See Client Application Compatibility on page 99 Added Internet Explorer compatibility. See Internet Explorer 9 on page 154 Added Logger version 9.07 to anti-virus tables. Added Sophos 9.5.
A3	March 2011		 Updated the section on Microsoft Windows 7. See Windows 7 32-bit/64-bit on page 99 Added new section for Daylight Savings Time. See Microsoft Daylight Savings Time Updates on page 229

Revision	Modification Date	Software Version	Description
A2	February 2011		 Updated Microsoft service packs support and requirements. See Microsoft Software Service Packs Certified by NICE Systems on page 23
			 Added compatibility for Microsoft Windows 7 64- bit, and updated compatibility by NICE Perform release. See Windows 7 32-bit/64-bit on page 99
			 Added new section for silent installations. See Using Silent Installation to Install Client Applications on page 102
			 Updated procedures for installing client-side components on Microsoft Windows 7. See Manually Installing Client Applications on page 107
A1	November 2010		 Updated SQL support. See Microsoft SQL Server on page 187 Updated Antivirus. See Antivirus on page 233

Scope of this Guide

Software Version

This guide is updated for:

- NICE Engage Platform 6.6
- NICE Interaction Management 4.1
- Real-Time Solutions 4.9
- NICE Perform 3.2 / 3.5

What is included in this guide?

Guidelines for third party software with NICE applications.

What is not included in this guide?

Торіс	Where to Find this Topic
NICE Screen Agent software	ScreenAgent Installation and Configuration Guide
Microsoft .NET framework	Certified Servers Guide
Setting up a client computer to work with ASPX	Workstation Setup Guide
Configuring XBAP	Workstation Setup Guide
Microsoft Daylight Savings Time configurations	Maintenance Guide

2

Microsoft Software Service Packs Certified by NICE Systems

This section summarizes the Microsoft Software Service Packs Certified by NICE Systems.

Product	NICE Engage Platform NICE Interaction Management Version 8.9 SMB
Release	NICE Engage Platform 6.x NICE Interaction Management Release 4.1 Version 8.9
Synopsis	Provides information regarding the latest Microsoft Software Service Packs certified by NICE Systems.

The following table consists of information regarding the latest Microsoft Software Service Packs certified by NICE Systems.

Microsoft Software	Service Pack	NICE Release	Comment
Windows 2000	SP4	 NICE Version 8.9 NICE Perform Release 1 SP7 Release 2 SP5 Release 3 SP3 Release 3 SP4 Release 3.1 Release 3.2 	 Supported by: Set Security ROD Reporter Viewer ScreenAgent Screen Sense Agent NICE Player Codec Pack Nice Standalone Player Survey Manager
Windows Server 2003 R2 Standard Edition 32-bit	SP2	 NICE Version 8.9 NICE Interaction Management Release 4.1 - supported only for upgrades 	
Windows Server 2003 R2 Enterprise Edition 32-bit	SP2	 NICE Version 8.9 NICE Interaction Management Release 4.1 - supported only for upgrades 	
Windows Server 2003 R2 Standard Edition 64-bit	SP2	 NICE Interaction Management Release 4.1 - supported only for upgrades 	DB Server Only

Tuble 2 1. Microsoft Software Service Fucto certified by file Systems	Table 2-1: Microsoft	Software	Service	Packs	certified	by NICE Systems
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Microsoft Software	Service Pack	NICE Release	Comment
Windows Server 2003 R2 Enterprise Edition 64-bit	SP2	 NICE Interaction Management Release 4.1 - supported only for upgrades 	DB Server Only
Windows XP	SP2	 NICE Version 8.9 NICE Interaction Management Release 4.1 	Client Side Only
Windows XP	SP3	 NICE Interaction Management Release 4.1 NICE Engage Platform 6.x 	Client Side Only
Windows Vista Business	SP2	NICE Perform Release 3 SP4 Release 3.1	Client Side Only

Table 2-1: Microsoft Software	Service Packs	certified by NI	CE Systems	(continued)
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Microsoft Software	Service Pack	NICE Release	Comment
Windows Vista Enterprise Edition	SP2	 NICE Interaction Management Release 4.1 NICE Engage Platform 6.x 	 Supported by: Set Security ROD Reporter Viewer ScreenAgent Desktop Analysis Agent RTS NICE Player Codec Pack Nice Standalone Player Survey Manager Media Library
Windows 7	SP1	 NICE Interaction Management Release 4.1 NICE Engage Platform 6.x 	Supported Client Side Applications Only
Windows 8		 NICE Interaction Management Release 4.1 NICE Engage Platform 6.x 	
Windows 8.1		 NICE Interaction Management Release 4.1 NICE Engage Platform 6.x 	

Table 2-1: Microsoft Software Service Packs certified by NICE Systems (continued)

Microsoft Software	Service Pack	NICE Release	Comment
Windows 10		 NICE Engage Platform 6.4 and up 	
Windows Server 2008 Standard Edition 32-bit	SP2	 NICE Interaction Management Release 4.1 NICE Engage Platform 6.x, supported only for upgrades NICE Perform eXpress Release 2.1 	
Windows Server 2008 Enterprise Edition 32-bit	SP2	 NICE Interaction Management Release 4.1 NICE Engage Platform 6.x, supported only for upgrades 	
Windows Server 2008 Standard Edition 64-bit	SP2	 NICE Interaction Management Release 4.1 NICE Engage Platform 6.x, supported only for upgrades 	
Windows Server 2008 Enterprise Edition 64-bit	SP2	 NICE Interaction Management Release 4.1 NICE Engage Platform 6.x, supported only for upgrades 	
Windows Server 2008 R2 Enterprise Edition 64-bit		 NICE Interaction Management Release 4.1 NICE Engage Platform 6.x, supported only for upgrades 	

Table 2-1: Microsoft Software Service Packs certified by NICE Systems (continued)

Microsoft Software	Service Pack	NICE Release	Comment
Windows Server 2008 R2 Standard Edition 64-bit		 NICE Interaction Management Release 4.1 NICE Engage Platform 6.x, supported only for upgrades 	
Windows Server 2008 R2 Standard Edition 64-bit	SP1	 NICE Interaction Management Release 4.1 	
Windows Server 2008 R2 Enterprise Edition 64-bit	SP1	 NICE Interaction Management Release 4.1 	
Windows 2012 Datacenter 64-bit		 NICE Engage Platform 6.x 	
Windows 2012 Standard 64-bit		 NICE Engage Platform 6.x 	
Windows 2012 R2 Datacenter 64-bit		 NICE Engage Platform 6.x 	
Windows 2012 R2 Standard 64-bit		 NICE Engage Platform 6.x 	
SQL Server 2005 Standard Edition 32-bit	SP3	 NICE Interaction Management Release 4.1 - supported only for upgrades 	

Table 2-1: Microsoft Software Service Packs certified by NICE Systems (continued)

Microsoft Software	Service Pack	NICE Release	Comment
SQL Server 2005 Standard Edition 64-bit	SP3	 NICE Interaction Management Release 4.1 - supported only for upgrades 	
SQL Server 2005 Enterprise Edition 64-bit	SP3	 NICE Interaction Management Release 4.1 - supported only for upgrades 	
SQL Server 2005 Standard Edition 32-bit	SP4	 NICE Interaction Management Release 4.1 - supported only for upgrades 	
SQL Server 2005 Standard Edition 64-bit	SP4	 NICE Interaction Management Release 4.1 - supported only for upgrades 	
SQL Server 2005 Enterprise Edition 64-bit	SP4	 NICE Interaction Management Release 4.1 - supported only for upgrades 	
SQL Server 2005 Enterprise Edition 32-bit	SP4	 NICE Perform Release 3 SP4 Release 3.1 Release 3.2 Release 3.5 	
SQL Server 2008 Standard Edition 32-bit	SP1	 NICE Interaction Management Release 4.1 NICE Sentinel 4.1 	

Table 2-1: Microsoft Software Service Packs certified by NICE Systems (continued)

Microsoft Software	Service Pack	NICE Release	Comment
SQL Server 2008 Standard Edition 64-bit	SP1	 NICE Interaction Management Release 4.1 NICE Sentinel 4.1 	
SQL Server 2008 Enterprise Edition 64-bit	SP1	 NICE Interaction Management Release 4.1 NICE Sentinel 4.1 	
SQL Server 2008 Standard Edition 32-bit	SP2	 NICE Interaction Management Release 4.1 NICE Sentinel 4.1 	
SQL Server 2008 Standard Edition 64-bit	SP2	 NICE Interaction Management Release 4.1 NICE Sentinel 4.1 	
SQL Server 2008 Enterprise Edition 64-bit	SP2	 NICE Interaction Management Release 4.1 NICE Sentinel 4.1 	
SQL Server 2008 Standard Edition 32-bit	SP3	 NICE Interaction Management Release 4.1 NICE Sentinel 4.1 	
SQL Server 2008 Standard Edition 64-bit	SP3	 NICE Interaction Management Release 4.1 NICE Sentinel 4.1 	
SQL Server 2008 Enterprise Edition 64-bit	SP3	 NICE Interaction Management Release 4.1 NICE Sentinel 4.1 	

Table 2-1: Microsoft Software	Service Packs	certified by NI	CE Systems ((continued)
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Microsoft Software	Service Pack	NICE Release	Comment
SQL Server 2008 Standard Edition 32-bit	SP4	NICE Interaction Management Release 4.1NICE Sentinel 4.1	
SQL Server 2008 Standard Edition 64-bit	SP4	NICE Interaction Management Release 4.1NICE Sentinel 4.1	
SQL Server 2008 Enterprise Edition 64-bit	SP4	 NICE Interaction Management Release 4.1 NICE Sentinel 4.1 	
SQL Server 2008 R2 Standard Edition 32-bit	SP1	 NICE Interaction Management Release 4.1 NICE Sentinel 4.1 	
SQL Server 2008 R2 Standard Edition 64 -bit	SP1	 NICE Interaction Management Release 4.1 NICE Sentinel 4.1 	
SQL Server 2008 R2 Enterprise Edition 64-bit	SP1	 NICE Interaction Management Release 4.1 NICE Sentinel 4.1 	
SQL Server 2008 R2 Standard Edition 32-bit	SP2	 NICE Interaction Management Release 4.1 NICE Sentinel 4.1 	
SQL Server 2008 R2 Standard Edition 64-bit	SP2	NICE Interaction Management Release 4.1NICE Sentinel 4.1	

Table 2-1: Microsoft Software	Service Packs	certified by NI	CE Systems ((continued)
-------------------------------	---------------	-----------------	--------------	-------------

Microsoft Software	Service Pack	NICE Release	Comment
SQL Server 2008 R2 Enterprise Edition 64-bit	SP2	 NICE Interaction Management Release 4.1 NICE Sentinel 4.1 	
SQL Server 2008 R2 Standard Edition 32-bit	SP3	 NICE Interaction Management Release 4.1 NICE Sentinel 4.1 	
SQL Server 2008 R2 Standard Edition 64-bit	SP3	 NICE Interaction Management Release 4.1 NICE Sentinel 4.1 	
SQL Server 2008 R2 Enterprise Edition 64-bit	SP3	 NICE Interaction Management Release 4.1 NICE Sentinel 4.1 	
SQL Server 2012 Enterprise Edition 64-bit	SP1	NICE Engage Platform 6.XNICE Sentinel 6.X	
SQL Server 2012 Standard 64-bit	SP1	NICE Engage Platform 6.XNICE Sentinel 6.X	
SQL Server 2012 Enterprise Edition 64-bit	SP2	NICE Engage Platform 6.XNICE Sentinel 6.X	
SQL Server 2012 Standard 64-bit	SP2	NICE Engage Platform 6.XNICE Sentinel 6.X	
SQL Server 2012 Standard 64-bit	SP3	NICE Engage Platform 6.XNICE Sentinel 6.X	
SQL Server 2012 Enterprise Edition 64-bit	SP3	NICE Engage Platform 6.XNICE Sentinel 6.X	

Table 2-1: Microsoft Software Service Packs certified by NICE Systems (continued)

Microsoft Software	Service Pack	NICE Release	Comment
SQL Server 2014 Enterprise Edition 64-bit		 NICE Engage Platform 6.X 	
SQL Server 2014 Standard 64-bit		 NICE Engage Platform 6.X 	
SQL Server 2014 Enterprise Edition 64-bit	SP1	NICE Engage Platform 6.XNICE Sentinel 6.X	
SQL Server 2014 Standard 64-bit	SP1	NICE Engage Platform 6.XNICE Sentinel 6.X	
SQL Server 2014 Enterprise Edition 64-bit	SP2	NICE Engage Platform 6.XNICE Sentinel 6.5	
SQL Server 2014 Standard 64-bit	SP2	NICE Engage Platform 6.XNICE Sentinel 6.5	

Table 2-1: Microsoft Software Service Packs certified by NICE Systems (continued)

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3

Microsoft Server Operating Systems

This section provides information regarding Microsoft Server Operating Systems. This includes secure solutions, updates, and guidelines.

Contents

Windows Server 2003 Service Pack 2 NICE Product Support	36
Windows Server 2003 Service Pack 1 Integration with NICE Servers	41
Microsoft Windows Server 2003 Appliance Edition	69

Windows Server 2003 Service Pack 2 NICE Product Support

Product	Microsoft Windows Server 2003 Service Pack 2 Support
Release	
Synopsis	This section provides information about NICE support for Microsoft Windows Server 2003 R2, Service Pack 2.

Overview

This section provides information regarding NICE products support for Microsoft Windows Server 2003, Service Pack (SP2).

G Important!

- All NICE servers must be installed with Microsoft Windows Server 2003 SP2.
- All clients must be installed with .Net 2.0 (side-by-side or pure), as Microsoft has a known issue in Net 1.1 with Microsoft Windows Server 2003 SP2.
- On computers that have .Net2.0, serialization HF (KB914460) must be installed.
- On Microsoft Windows Server 2003 SP2, only the NICE Perform versions that support .Net 2.0 can be installed. This is relevant for servers and the workstations. See TN0736: NICE Product Support for Microsoft .Net3.0.

Server Side

No.	Release Version	Status
		OK
	NICE Perform RI (from SP7)	OK (See Limitations on page 40)
	NICE Perform RII (from SP4)	OK (See Limitations on page 40)
	NICE Perform 9.09	ОК
	NICE Perform R3	OK (See Limitations on page 40)
	NICE Perform R3.1	ОК
Windows Server 2003 Service Pack 2 Installation Procedure

No.	Release Version	Status
	NICE Perform R3.2	ОК
	NICE Perform R3.5	ОК
	NICE Interaction Management R4.1	For upgrades only

Windows Server 2003 Service Pack 2 Installation Procedure

Before You Begin

Before installation, check via **My computer > Properties** that the server is installed with Microsoft Windows Server 2003, SP1, and not with Microsoft Windows Server 2003 SP2.

Figure 3-1: System Properties - General Tab



For Loggers only: Verify that the status of the Distributed Transaction Coordinator service is started. If it is not, then you must start it before running the SP installation.

Windows Server 2003 Service Pack 2 Installation Procedure



ile Artino View	Help						
Services (Local)	Services (Local)						
	Distributed Transaction	Name /	Description	Status	Startup Type	Log On As	
	Coordinator	Computer Browser	Maintains a	Started	Automatic	Local System	
		Cryptographic Services	Provides th	Started	Automatic	Local System	
	Stop the service	Crystal Report Application Server	Provides s	Started	Automatic	Local System	
	Chemical one service	DCOM Server Process Launcher	Provides la	Started	Automatic	Local System	
		CHCP Client	Manages n	Started	Automatic	Local System	
	Coordinates transactions that span	Distributed Link Tracking Client	Maintains I	Started	Automatic	Local System	
	multiple resource managers, such as	Bistributed Transaction Coordinator	Coordinate	Started	Manual	Network S	
	databases, message queues, and file	CNS Client	Resolves a	Started	Automatic	Network S	
	systems. If this service is stopped, these transactions will not occur. If this service	Error Reporting Service	Allows erro	Started	Automatic	Local System	
	is disabled, any services that explicitly	Svent Log	Enables ev	Started	Automatic	Local System	
	depend on it will fail to start.	Fast User Switching Compatibility	Provides m		Manual	Local System	
		Fax	Enables yo		Automatic	Local System	
		FTP Publishing	Provides F	Started	Automatic	Local System	
		Google Updater Service			Manual	Local System	
		Help and Support	Enables He	Started	Automatic	Local System	
	Second Contract	Burn co	This seconds		Manual .	Land C. Ann	

- → To install Microsoft Windows Server 2003 SP2:
- 1. Run Windows Server 2003 SP2 .exe file. Figure 3-3: Software Update Installation Wizard Window

Software Update Installation	Wizard X
	Use this wizard to install the following software update: Windows Server 2003 Service Pack 2
	Before you install this update, we recommend that you: - Back up your system - Close all open programs You might need to restart your computer after you complete this update. To continue, click Next.
	< Back Next > Cancel Help

2. Click Next.

Windows Server 2003 Service Pack 2 Installation Procedure

	Figure	3-4:	License	Agreement
--	--------	------	---------	-----------

Software Update	Installation Wizard 🛛 🗙
License Agre	ement 🥼
1	Please read the following license agreement. To continue with setup, you must accept the agreement. SERVICE PACK 2 FOR MICROSOFT WINDOWS SERVER 2003 PLEASE NOTE: For supplement obtained from server manufacturer or software installer. The server manufacturer, or the software
	installer, that distributes the software with

3. Select I agree, and click Next.

Figure 3-5: Select Options Window

elect Options	
Setup creates a backup of system files so you can uninstall the service pack if necessary. Click Browce to choose a location for these backup files, or click Next to accept the location displayed below.	
Uninstall Folder C:\WINDOWS\\$NIServicePackUninstall\$ Bgowse	

4. Click Next.

Limitations

Software Update	e Installation Wizard 🛛 🛛 🗙
License Agr	eement 🧾
i	Please read the following license agreement. To continue with setup, you must accept the agreement. SERVICE PACK 2 FOR MICROSOFT WINDOWS SERVER 2003 PLEASE NOTE: For supplement obtained from server manufacturer or software installer. The server manufacturer, or the software with
	Ol <u>D</u> o Not Agree ● Agree Print
	< <u>B</u> ack <u>N</u> ext > Cancel Help

5. Click **Finish** to complete the installation.

The server reboots.

Limitations

- Recording On demand (ROD) Desktop will not work if a client has .Net1.1 side by side with .Net2.0, and if the servers are installed with Microsoft Windows Server 2003, SP2.
- If ROD Desktop is needed and the clients have .Net1.1 side by side with .Net2.0, please contact NICE Customer Support.
- If the client has .Net2.0 pure, then the ROD desktop will function properly.
- For new ScreenSense server installations on top of NICE Perform Release II SP4 and NICE Perform Release 3 SP2, a new .msi installation file is available in the HF directory. The ScreenSense server must be installed from this file.

Windows Server 2003 Service Pack 1 Integration with NICE Servers

Product	Microsoft Windows Server 2003 Service Pack 1 Integration with NICE Servers
Release	
Synopsis	

As part of NICE's continuous effort to provide its customers with a secure solution, and in accordance with our policy regarding service pack certification, NICE has certified Microsoft Windows Server 2003 Service Pack 1. Microsoft Windows Server 2003 Service Pack 1 provides advanced and significant security features, including a built-in firewall, an improved IIS security mechanism, program signature validation, thus further enhancing NICE's secure platform.

For details about Microsoft Windows Server 2003 Service Pack 1, see http://support.microsoft.com/default.aspx/kb/889101.

This section provides instructions for installing and configuring Microsoft Windows Server 2003 Service Pack 1 for NICE Servers running Microsoft Windows Server 2003 Standard or Appliance edition.

NOTE: The procedures described in this section can be used for NICE Servers running NICE Perform.

Overview

This section provides guidelines for installing and configuring Microsoft Windows Server 2003 Service Pack 1 on NICE Servers.

Microsoft Windows Server 2003 Service Pack 1 provides the following enhanced security features:

- A built-in firewall
- Enhanced security for Internet Explorer
- Checks for a valid signature of programs during installation

By default, a firewall closes all ports to incoming network packets. This section explains how to open a port permanently (known as statically opened ports), and to define specific applications for which the firewall will open the necessary listening ports. These listening ports will remain open only when, and as long as, these applications are running (known as dynamically opened ports).

This section provides instructions for installing Microsoft Windows Server 2003 Service Pack 1 on NICE Servers, and describes how to security-tune your servers so that full-functionality of the system is obtained. Security-tuning is performed in the Windows Firewall.

Known Issues and Limitations

NOTE: After you complete security-tuning NICE components, we recommend that you monitor all recording components at the site to ensure that they are running properly.

Known Issues and Limitations

- ISA Logger version 8.9 does not support Windows 2003 SP1.
- NICE SNMP Manager 8.8/9.01 does not support Windows 2003 SP1.
- Audio Manager running on NICE CLS 8.9 will not function properly after installing Windows 2003 SP1. This means that Executive Connect and /or Playback via Turret (PVT) will not work. For additional information contact NICE regarding installing Microsoft Windows Server 2003 Service Pack 1.

Installing Windows Server 2003 Service Pack 1 on NICE Servers

Important!

Before installing Microsoft Windows Server 2003 Service Pack 1, close NICE applications and stop all NICE services.

If there is enough space on Disk C, go directly to Running the Microsoft Windows Server 2003 Service Pack 1 Setup on page 49.

If there is not enough space on Disk C for SP installation, perform all the following steps.

- Moving Unused Files NiceLog Loggers below.
- Moving Log Files NiceCLS Servers on the facing page.
- Running the Disk Cleanup Wizard on page 46.
- Copying the Service Pack 1 Installation File on page 48.
- Running the Microsoft Windows Server 2003 Service Pack 1 Setup on page 49.

Moving Unused Files - NiceLog Loggers

This procedure must be performed for NiceLog Logger Versions 8.9 and 9.0.

➡ To move the unused files:

Move the installation files from Drive C: (usually found in C:\installs\i386) to Drive D: (the root folder).



Figure 3-7: Installs Folder

Moving Log Files - NiceCLS Servers

This section describes how to move the NiceCLS log files from Drive C: to Drive D:. This procedure must be performed for machines running NiceCLS Version 8.9.

➡ To move the log files:

1. In Drive D:, create the following folder: D:\NICECTI\Log.

3: Microsoft Server Operating Systems

Installing Windows Server 2003 Service Pack 1 on NICE Servers

Figure 3-8: \Log Folder

🎦 D:\Nicecti\Log			
<u>File Edit View Favorites Tools Help</u>			<u></u>
🕓 Back 👻 🕤 👻 🏂 👂 Search 👔 Fold	lers 🗟 🕉 🗙 🗙 🇐 🛄 -		
Address 🛅 D:\Nicecti\Log			💌 🔁 Go
Folders X	Name 🔺	Siz	е Туре
Image: Desktop ▲ Image: Desktop ▲ Image: Desktop My Computer Image: Desktop (A:) Image: Deskt	Ŗ		
SQL_2000_auto_setup_8.8_&_ SQL_2000_auto_setup_8.8_&_ SUICE_Software on 'uni_gho' (Z:	•	0 bytes	Ny Computer

- 2. From the **Start** menu, select **Run** > **Regedit**.
- 3. Navigate to the following Registry key:

HKLM\SOFTWARE\NICECTI\SYSTEM\LOG_DLL

3: Microsoft Server Operating Systems

Installing Windows Server 2003 Service Pack 1 on NICE Servers





4. Set the value of LogFilePath as shown below:

Figure 3-10: LogFilePath

	?
OK	Cancel
	0K

- 5. Click OK.
- 6. Set the value of LogFileName as shown below:

Figure 3-11: LogFileName

	?
ПК	Cancel
	ΠΚ

7. Click OK.

Running the Disk Cleanup Wizard

- → To run the Disk Cleanup wizard:
- 1. Double-click My Computer.
- 2. Right-click on **Drive C:** and select **Properties**. The Local Disk Properties window appears.

Figure 3-12: My Computer

🚪 My Computer	N			_ 🗆 🗙
<u>Eile E</u> dit <u>V</u> iew	F <u>a</u> vorites <u>T</u> ools <u>H</u> elp			.
🕝 Back 🔹 🌖 👻 🗗	🏌 🔎 Search 🏾 🌔 Folders 🛛	🗟 🎯 🗙 🍤		
Address 😽 My Comp	outer		-	🔁 Go
Name	Туре	Total Size	Free Space	Comments
Hard Disk Drives				
🥯 Local Disk (C:)	Local Disk	2.93 GB	1.21 GB	
Second Disk (D:)	Local Disk	3.90 GB	3.12 GB	
Devices with Ren	novable Storage			
4:) 31/2 Floppy (A:)	31⁄2-Inch Floppy Disk			
•			J	•
Free Space: 1.21 GB To	otal Size: 2.93 GB		🛛 😼 My Computer	//

Security	Shadow Copies	Quota
General	Tools Hardware	Sharing
<u>ب</u>		
Type: Loc	al Disk	
File system: NTF	FS	
Used space:	1,846,714,368 bytes	1.71 GB
Free space:	1,303,531,520 bytes	1.21 GB
Capacity:	3,150,245,888 bytes	2.93 GB
1	Drive C	Disk Cleanup
Compress drive	to save disk space	
Allow Indexing \$	Service to index this disk for fa	ast file searching
		1

3. Click **Disk Cleanup**. In the Files to delete list, select all the files on the list. See Figure 3-14.

Disk Cleanup for (C:)	? ×
Disk Cleanup More Options	8
You can use Disk Cleanup to free up t space on (C:).	o 3,341 KB of disk
<u>Files to delete:</u>	
🗹 🖻 Downloaded Program Files	0 KB 🔺
🛛 🗹 🔒 Temporary Internet Files	0 KB
🛛 🗹 🥩 Recycle Bin	576 KB
🛛 🗹 🍺 Setup Log Files	753 KB 🛁
Temporary files	1,992 KB 🗾
Total amount of disk space you gain:	3,341 KB
┌─ Description	1
Downloaded Program Files are ActiveX contro downloaded automatically from the Internet w pages. They are temporarily stored in the Dow Files folder on your hard disk.	ils and Java applets hen you view certain nloaded Program
	View Files

4. Click OK. Disk Cleanup will clean all the selected files.

Copying the Service Pack 1 Installation File

(MPORTANT

Since Windows Setup is generally extracted to the default drive (Drive C:), you must copy and execute the setup file from Drive D:.

To copy the Service Pack 1 installation file:

Copy the Service Pack 1 installation file to Drive D:. See Figure 3-15.



File Edit Yiew Favorites Tools Address D:\SP1 Image: Size Typ Folders X Name Size Image: Size Typ Image: Size Size	≥ D:\SP1			_ 🗆 ×
Back ▼ > Address D:\SP1 Folders Folders Name Size Type Polders Name Size Pile Polders Name Size Pile Polders Name Size Pile	<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp	2	Ŷ	1
Address D:\SP1 Folders Folders Name Size Typ Size Typ WindowsServer2003-KB889101-SP1-x86-ENU.exe 337,230 KB Apr WindowsServer2003-KB889101-SP1-x86-ENU.exe 337,230 KB Apr My Computer Control Disk (C:) Control Disk (C:) Control Panel Cont	🔇 Back 🔹 🕥 🚽 🏂 🔎 Search 🌔 Fol	Iders 🛛 🔊 🗙 🍤 🛄+		
Folders × Image: Desktop I	Address 🔂 D:\SP1		-	🔁 Go
 Desktop My Documents My Computer My Computer Solutional State Solutional State Control Panel My Network Places Recycle Bin screenshots 	Folders ×	Name 🔺	Size	Туре
	 Desktop My Documents My Computer My Computer Solution 2012 Solution 2012 Local Disk (C:) Local Disk (D:) Local Disk (D:) Distalls SP1 SP1 WUTemp Control Panel My Network Places Recycle Bin screenshots 		337,230 KB	Applicati

Running the Microsoft Windows Server 2003 Service Pack 1 Setup

- + To run the Microsoft Windows Server 2003 Service Pack 1 setup:
- 1. Double-click WindowsServer2003-KB889101-SP1-x86-ENU.exe. The file will be extracted to Drive D:. The Windows Server 2003 Service Pack 1 Setup wizard starts.

Windows Server 2003 Servi	ce Pack 1 Set to Wizard	×
	Welcome to the Windows Server 2003 Service Pack 1 Setup Wizard	
	Before you install this update, we recommend that you: - Back up your system - Close all open programs To complete this installation, Windows might require restarting after you finish this wizard. To continue, click Next.	
	< <u>B</u> ack <u>Next></u> Cancel Help	

Figure 3-16: Windows Server 2003 Service Pack 1 Setup Wizard

2. Click Next. The License Agreement window appears.

ісепъе Ау	
	Please read the following license agreement. To continue with setup, you must accept the agreement.
15	SUPPLEMENTAL END USER LICENSE AGREEMENT
	SERVICE PACK 1 FOR MICROSOFT WINDOWS SERVER 2003
	PLEASE READ THIS SUPPLEMENTAL END-USER LICENSE AGREEMENT ('SUPPLEMENTAL EULA') CAREFULLY. BY INSTALLING OR USING THE SOFTWARE THAT ACCOMPANIES THIS SUPPLEMENTAL
	CIDo Not Agree <u>Print</u>

Figure 3-17: Windows Server 2003 Service Pack 1 Setup Wizard - License Agreement

3. Select I Agree and click Next. The Windows Select Options window appears.

Select Options			\searrow	
Setup creates a backup of system files necessary. Click Browse to choose a lo accept the location displayed below.	so you can uninstal ocation for these ba	I the service pack ckup files, or click	∶if ∖Nextto	
Uninstall Folder C:\WINDOWS\\$NtServicePackUn	iinstall\$	Bīo	wse	1

4. Click **Browse** and select Drive D. Click **OK**. The Select Options window will now appear as shown below.

Select Options	THE FOLK I SELU	σπιζαι α		k 📙
Setup creates a back necessary. Click Brou accept the location di	up of system files so y wse to choose a loca splayed below.	you can uninstall tion for these bac	the service pack i skup files, or click t	f Next to
– Uninstall Folder D:\\$ntservicepac	kuninstall\$		Bīow	se

NOTE: If you have enough space on Disk C for SP installation (and you skipped the previous steps for moving to Disk D) leave the default path for uninstall folder - C:\WINDOWS\\$NtServicePackUninstall\$.

5. Click **Next**. The installation process starts. When the installation is complete, the Complete window appears.

Windows Server 2003 Service Pack 1 Setup Wizard		
	Completing the Windows Server 2003 Service Pack 1 Setup Wizard	
	You have successfully completed the Service Pack 1 Setup Wizard.	
	To apply the changes, the wizard has to restart Windows. To restart Windows automatically, click Finish. If you want to restart later, select the Do not restart now check box, and then click Finish.	
	Do not restart now	
	< Back Finish Cancel Help	

6. Click Finish. Your server will now restart.

NOTE: The restart process will take a bit longer than usual.

Security-Tuning Your System

Security-tuning your system involves:

- Enabling the Windows Firewall Service below.
- Opening Ports on the facing page.
- Adding Applications to the Exceptions List on page 58.
- Activating the Windows Firewall on page 59.

Enabling the Windows Firewall Service

After you install Microsoft Windows Server 2003 Service Pack 1, it is possible to enable the Windows Firewall service.



- → To enable the Windows Firewall service:
- 1. Open the **Control Panel** and double-click **Windows Firewall**. The following message appears.

Figure 3-21: Windows Firewall Message



2. Click **Yes** and close the Windows Firewall application. The Windows Firewall service is now enabled, however, the Windows Firewall is not active yet.

Opening Ports

→ To add ports to the firewall:

1. From the **Start** menu, select **Settings > Control Panel > Windows Firewall**. The Windows Firewall window appears.

Figure 3-22: Windows Fi	rewall Window
-------------------------	---------------

😺 Windows Firewall 🛛 🗙
General Exceptions Advanced
Your PC is not protected: turn on Windows Firewall
Windows Firewall helps protect your computer by preventing unauthorized users from gaining access to your computer through the Internet or a network.
🎯 o On
This setting blocks all outside sources from connecting to this computer, with the exception of those selected on the Exceptions tab.
Don't allow exceptions
Select this when you connect to public networks in less secure locations, such as airports. You will not be notified when Windows Firewall blocks programs. Selections on the Exceptions tab will be ignored.
🚫 💿 OĨŧ
Avoid using this setting. Turning off Windows Firewall may make this computer more vulnerable to viruses and intruders.
For information, see the <u>Microsoft Web site</u> .
OK Cancel

NOTE: The Windows Firewall is still not set to On. Do not set it to On yet!

2. Click the **Exceptions** tab.

Figure 3-23: Windows Firewall Window - Exceptions Tab

😹 Windo	ws Firewall			×
General	Exceptions	Advanced		
Windov from ou Genera	vs Firewall is tu itside sources s il tab and selec	rned off. Your com such as the Interne t On.	puter is at risk of atta t. We recommend th	acks and intrusions nat you click the
Name		·o.		
	Cano Finite DGGER-NiceC DGGER-NiceC DGGER-NiceC C_Anywhere1 C_Anywhere2 emote Desktop TS1 TS2	manng om1 om2 om3 om4		
Add	P <u>r</u> ogram	Add Port	<u>E</u> dit	Delete
☑ Dis	play a <u>n</u> otificati	on when Windows	Firewall blocks a pr	ogram

NOTE: Ensure that Display a notification when Windows Firewall blocks a program is selected.

3. Click Add Port. The Add a Port window appears.

Add a Port	
Use these settings number and protoc want to use.	to open a port through Windows Firewall. To find the port ol, consult the documentation for the program or service you
<u>N</u> ame:	
<u>P</u> ori number:	
	O ICP O UDP
<u>What are the risks</u>	of opening a port?
Change scope	OK Cancel

4. Referring to Network Usage by NICE Systems on page 60, add the port and click **OK**. Repeat this step for all NICE ports.

Adding Applications to the Exceptions List

When certain applications run for the first time, a warning message may appear asking if you want to unblock the application. Clicking Unblock will add the application to the firewall Exceptions List, enabling you to run the application.

- ➡ To add an application to the Exceptions list:
- 1. **Start** the NICE Server and **run** all system modules. The following Windows Security Alert may appear.



Wind 👔	lows Secur To help	ity Alert protect your comput	ter, Windows Fi	rewall has blocked
Do you	some fe	atures of this progra keep blocking this p	m. rogram?	
Ω	Name: Publisher:	ScreenAgent Nice Systems Ltd.		
		Keep Blocking	Unblock	Ask Me Later
Windov Internel unblock	ws Firewall h t or a netwoi k it. <u>When s</u> l	Keep Blocking as blocked this program k. If you recognize the p nould I unblock a progra	Unblock from accepting cor program or trust the p m?	Ask Me Later

2. Click Unblock. The application is added to the Exceptions list.

Activating the Windows Firewall

After you complete adding all exceptions to the Windows Firewall, the Windows Firewall must be activated.



- 1. In the Control Panel, double-click Windows Firewall. The Windows Firewall opens.
- 2. Click the **General** tab.

Figure 3-26: Windows Firewall - General Tab 🕷 Windows Firewall X General Exceptions Advanced Your PC is not protected: turn on Windows Firewall Windows Firewall helps protect your computer by preventing unauthorized users. from gaining access to your computer through the Internet or a network. æ On This setting blocks all outside sources from connecting to this computer, with the exception of those selected on the Exceptions tab. Don't allow exceptions Select this when you connect to public networks in less secure locations, such as airports. You will not be notified when Windows Firewall blocks programs. Selections on the Exceptions tab will be ignored. Off Avoid using this setting. Turning off Windows Firewall may make this computer more vulnerable to viruses and intruders. For information, see the Microsoft Web site. OK Cancel 3. Select **On** and click **OK**. The Window Firewall is now active.

Network Usage by NICE Systems

Following are general comments regarding network usage by the system:

- The port used by the CAPI can be configured on both the NiceCLS side and the application side. Changes can be done from the registry. Certain drivers use the CAPI in order to communicate with the Call Server. In these cases you must change the port number in the driver too. All those mentioned configurations are configured from the Registry.
- Ports 161,162, 6665 are used between system components (UDP) for Nice SNMP service (NICE Supervision SNMP and/or Unicenter SNMP).

Most internal server-server and client-server communication in the system is done through the Nicecomm layer. Nicecomm is limited to a maximum of 50 connections on the same port.

NOTE:

- The Integration (driver) may require opening a specific port(s) in order to communicate with the CTI server
- The ports used by pcAnywhere are as follows:
 - pcAnywhere 10.x and up: TCP 5631, TCP 5632
 - pcAnywhere down from 10.x: TCP 65301, TCP 22

TCP/UDP Ports Used by NICE Servers Version 8.9

NiceCLS ServerServer Side

Table 3-1: TCP/UDP Ports Used by NiceCLS Server

Port	Used By
ТСР	
2050	CAPI (Can be configured to use other ports as well.)
1433	Database
UDP	
2005	Status Server
2002	Output manager
4387	Lock manager
34462	Lock manager

NiceLog Voice Logger

Table 3-2:

TCP/UDP Ports Used by NiceLog Voice Logger

Port	Used By
ТСР	
2011	NiceCom
ТСР	
2001	NiceCom
UDP	
2000	Nicecom
2012	

NiceScreen Logger

Table 3-3: TCP/UDP Ports Used by NiceScreen Logger

Port	Used By
ТСР	
2102	Nicecom
2152	Nicecom
TCP (Citrix Environ	ment)
3020>3020+n	n=number of agents
UDP	
2101	

RTS (Remote Tape Server)

Table 3-4: TCP/UDP Ports Used by RTS

Port	Used By
ТСР	
3001	
3002	
UDP	
3011	
3012	

Media Library

Table 3-5: TCP/UDP Ports Used by Media Library

Port	Used By
UDP	
2000	

Printer Server

Table 3-6:

TCP/UDP Ports Used by Printer Server

Port	Used By
UDP	
2006	

Application Web Server

Table 3-7: TCP/UDP Ports Used by Application Web Server

Port	Used By	Comment
ТСР		
80		(HTTP)
8080		(HTTP)

Storage Center

Table 3-8: TCP/UDP Ports Used by Storage Center

Port	Used By
ТСР	
7200	

TCP/UDP Ports Used by NICE Servers Version 9

Web Applications Center

Table 3-9: TCP/UDP Ports Used by the Web Applications Center

Port in 9.0	Used By	Comments
ТСР		
80	WebServer	
8080	WebServer	
62070	User Admin	
62070	System Admin	

Port in 9.0	Used By	Comments
62071	Audit Trail	
62072	Rule Manager	
62073	Locate Service	
62074	Unified Query	
62075	Monitor	
62076	Playback Media Server	
62077	Playback resource manager	
62078	Playback media service	
62079	Rule engine	
62080	Coaching	
62081	My Universe	
62082	Call Flow Analysis	

Table 3-9: TCP/UDP Ports Used by the Web Applications Center (continued)

Unicenter SNMP Manager

Table 3-10: TCP/UDP Ports Used by Unicenter SNMP Manager

Port in 9.0	Used By	Comments
UDP		
161	UniCenter SNMP Manager	

NiceLog Logger

Table 3-11: TCP/UDP Ports Used by NiceLog Logger Version 9

Port in 9.0	Used By	Comments
ТСР		
2001	NiceLog Logger	
2011	NiceLog Logger	
UDP		
2000	NiceLog Logger	
2012	NiceLog Logger	

NiceScreen

Table 3-12: TCP/UDP Ports Used by NiceScreen

Port in 9.0	Used By	Comments
ТСР		
2001, 2102	Screen Agent for desktop	
3020	Screen Agent for terminal server	
30100	MML	
UDP		
30102	MML	

NICE Playback Server

Table 3-13: TCP/UDP Ports Used by NICE Playback Server

Port in 9.0	Used By	Comments
ТСР		
8000 -8003	PBS Link	
8010	PBS Link	

NICE Storage Center

Table 3-14: TCP/UDP Ports Used by NICE Storage Center

Port in 9.0	Used By	Comments
ТСР		
30002-30004	Storage Center	

NICE Interaction Center

Table 3-15: TCP/UDP Ports Used by NICE Interaction Center

Port in 9.0	Used By	Comments
ТСР		
62050,62051	Call Server	
62059	SNMP	
62060	Dispatch	Used by the SNMP logic
62061	Scheduler	Used by the SNMP logic
62069	RCM	

Database Server

Table 3-16:

TCP/UDP Ports Used by the Database Server

Port in 9.0	Used By	Comments
ТСР		
1433	SQL Server	

Microsoft Windows Server 2003 Appliance Edition

Product	Microsoft Windows Server 2003 Appliance Edition	
Release		
Synopsis	Commencing April 2005, the operating system configuration for NiceLog and Interaction Capture Unit product lines is changing from Microsoft Windows Server 2003 Standard Edition to Microsoft Windows Server 2003 Appliance Edition.	

Microsoft Windows Server 2003 Appliance Edition is a joint venture of Nice Systems and Microsoft as part of our OEM membership. This now provides an optimized operating system for NiceLog logger and the Interaction Capture Unit based upon Microsoft Windows Server 2003 technology and is especially designed to address the different performance needs of our capturing platform.

Additionally Microsoft Windows Server 2003 Appliance Edition makes redundant the different services and operating system resources which are not being used by the recording platform. This will provide better performance on the one hand and enhanced security on the other hand, by disabling different components which are not being used and may be a potential for security breach.

Microsoft Windows Server 2003 Appliance Edition FAQ

Q: For which NICE server is Microsoft Windows Server 2003 Appliance Edition suitable?

A: Microsoft Windows Server 2003 Appliance Edition is suitable for NiceLog Loggers and the Interaction Capture Unit (as part of NICE Perform).

Q: Why is Microsoft Windows Server 2003 Appliance Edition is suitable only for NiceLog Logger and Interaction capture unit?

A: The reason is related to the fact that all other system components are a S/W only solution and the operating system is provided by the customer.

Q: Is there a special price for NiceLog Logger with Microsoft Windows Server 2003 Appliance Edition.

A: No. As from the official announcement every NiceLog Logger and Interaction Capture Unit will be shipped with Microsoft Windows Server 2003 Appliance Edition as default.

Q: Does the fact that I'm using Microsoft Windows Server 2003 Appliance Edition on the NiceLog Logger affects in any way Microsoft security patches and service pack related issues.

A: No. Microsoft Windows Server 2003 Appliance Edition has no affect on any MS security patches and service pack related issues. The list of certified MS security patches and service packs is available on the ExtraNICE and being updated constantly.

Overview

Q: Where can I buy a copy of Microsoft Windows Server 2003 Appliance Edition?

A: Microsoft Windows Server 2003 Appliance Edition is not available for a public use. Only Nice Systems is authorized to provide a copy and licensing of this Microsoft Windows edition.

Q: Does Microsoft Windows Server 2003 Appliance Edition affect in any way Nice Systems language support?

A: Microsoft Windows Server 2003 Appliance Edition is transparent from an end user standpoint.

Q: Is the Microsoft Windows Server 2003 Appliance Edition suitable for the 8.9 ISA based NiceLog Logger or just to the PCI?

A: Microsoft Windows Server 2003 Appliance Edition is applicable for both ISA and PCI based NiceLog Logger.

Overview

From April 2005, an Image CD (Ghost) will be shipped with each NICE High Density Logger, NICE Interaction Capture Unit or Nicelog version 8.9 ISA, instead of Microsoft Windows Server 2003 installation CDs.

This Image CD (Ghost) can also be used to recover the logger in a case of a crisis on site

Important!

- This Image CD (Ghost) is for use only with systems sent from April 2005.
- The installation will only function properly with CPUs shipped after April 2005, otherwise you may be prompted to replace your CPU.
- See below to verify if your CPU version is approved, if not it will be necessary replace your CPU.

Figure 3-27: NICE CPU Verification Tool

This CPU is not approved to use with Windows 2003 Appliance Edition. Please replace the CPU to the latest version.

Each shipment includes the following items:

• 1 x 1.44 MB Bootable diskette:

Label: Windows Server 2003 Appliance Recovery – Network Installation Diskette.

2 x Image CD (Ghost):

Label: Image CD for PCI Logger / ICU / ISA Logger 8.9 W2K3 Appliance (CD # 1 of 2).

Label: Image CD for PCI Logger / ICU / ISA Logger 8.9 W2K3 Appliance (CD # 2 of 2).

• 1 x Windows installation files CD.

Label: MS Installation files for W2K3 Appliance edition (I386).

Recovering the Logger

NOTE: This CD contains Windows installation files for further installation.

Recovering the Logger

There are several options to recover the Logger:

- Replacing the Failed HDD with a Preloaded HDD below (Most recommended option).
- Installing the Image CD (Ghost) from a Logger DVD Device on the next page.
- Installing the Image CD (Ghost) from a Workstation on page 76.

Replacing the Failed HDD with a Preloaded HDD

+ To Replace the Failed HDD with a Preloaded HDD

NICE Systems Ltd. recommends ordering a preloaded HDD for fast replacement at the site. Each preloaded HDD is compatible to a specific platform

Platform	Preloaded HDD
NICE High Density Logger v9.0	36GB or 72GB SCSI HDD
NICE Interaction Capture Unit	250GB IDE HDD
NiceLog Logger ISA 8.9	36GB or 72GB SCSI HDD

Contact support@nice.com to order this preloaded HDD.

Installation Notes

- The preloaded HDD contains the Windows application only.
- After the installation, you will need to install the Logger S/W from the CDs you received with your system.
- Where there are two or more HDDs installed, the master HDD is HDD1

Table 3-17: NiceLog Storage Device Configuration

Configuration		Description
Up to three hard drives and up to two archiving devices		Hard drive assembly: from ID.0 to ID.2. 1st HDD ID 0 2nd HDD (optional): ID 1 3rd HDD (optional): ID 2
HDD1 HDD2	HDD3 Archiving1 Archiving2	Archiving device assembly: 1st Device (optional): ID 6 (SCSI)/Master (IDE) 2nd Device (optional): ID 5 (SCSI)/Master (IDE)

After replacing the HDD, Found New Hardware message boxes will appear, click Cancel on all message boxes.

Continue installing the NICE S/W according to Installing the NiceLog High Density Logger Software installation manuals for versions 8.9 and 9.0 on the ExtraNICE.

- After the NICE S/W Installation is completed, all Found New Hardware message boxes will disappear.
- For RAID devices see NICE High Density Logger Hardware Guide (PCI Loggers) and Nice Technical Reference Guide-Short Term Storage Devices (ISA Loggers). Replace the faulty HDD with a regular HDD (not preloaded HDD) and rebuild your HDD from the RAID device.

Installing the Image CD (Ghost) from a Logger DVD Device

NOTE: Where there is a faulty HDD, replace this HDD before installing the Image CD (Ghost).

- + To Install the Image CD (Ghost) Installation from a DVD Device:
- 1. Configure the BIOS Boot Sequence to startup from the DVD device. (From the BIOS: **BIOS FEATURES SETUP > BOOT SEQUENCE)**.
- 2. Insert the 1st CD installation Image CD (Ghost) [Label Image CD for PCI Logger / ICU / ISA Logger 8.9 W2K3 Appliance (CD # 1 of 2)] into the DVD device.
- 3. Reboot the system.
- 4. From the Microsoft Windows 98 Startup Menu select 1 (NICE Products Images...) and press Enter.


Microsoft Windows 98 Startup Menu	
1. NICE Products Images	
2. NICE CPU BIOS Setting	
4. Norton Ghost 8.0.	
5. Dos Prompt with CD Support.	
Enter a choice: 1	

G Important! Use only menu options that are specifically mentioned! (The other options are for NICE Engineers only.)

5. From the next screen, select machine type (NiceLog PCI / ICU / NiceLog ISA 8.9) and press Enter.

Figure 3-29: Microsoft Windows 98 Startup Menu

Microsoft Windows 98 Startup Menu	
1. NiceLog PCI 9.0 Image.	(Windows 2003 Appliance)
Enter a choice: 1	

- 6. The Image CD (Ghost) will start running automatically.
- 7. Wait for prompt and then replace the second CD [Label Image CD for PCI Logger / ICU / ISA Logger 8.9 W2K3 Appliance (CD # 2 of 2)].
- 8. Select **OK** with the arrow buttons and press **Enter**.

➡ To Restore BIOS Factory Settings:

1. Insert the 1st CD installation Image CD (Ghost) [Label – Image CD for PCI Logger / ICU / ISA Logger 8.9 W2K3 Appliance (CD # 1 of 2)] to the DVD device.

2. From the Microsoft Windows 98 Startup Menu select 2 (NICE CPU BIOS Settings...) and press Enter.

Figure 3-30: Microsoft Windows 98 Startup Menu



3. From the next screen, select machine CPU type (NiceLog PCI /ICU /ISA 8.9) and press **Enter**. This will restore the BIOS factory settings.





NICE S/W Installation

Configure the IP address and the computer name according to your network identification. You must create the **E** partition on the HDD accordingly.



- 1. Right-click My Computer, select Manage.
- 2. Select Computer management (Local) > Storage > Disk Management.

3. Right-click the **third partition** and select **New Partition** from the drop down context menu.

🚽 Computer Management (Local)	Volume Layout	Type File Syste	m Status	Capacity	Free Space	% Free	Fault Tolerance	OverH
🗄 🌇 System Tools	(C:) Partition	Basic NTFS	Healthy (System)	2.93 GB	998 MB	33 %	No	0%
Storage Removable Storage Disk Defragmenter Disk Management Services and Applications	(D:) Partition	Basic NTF5	Healthy	3.91 GB	3.88 GB	99 %	No	0%
		Transformer						
	Basic	(C:)	(D:) 3.91 GB	NTFS	6	1.61 GB	New Partition	
	Online	Healthy (Syster	n) Healthy		Ų	nallocated		10
	08,45 GB Online	Healthy (Syster	n) Healthy			nallocated	Properties	-Ve
	68.45 GB Online	Healthy (Syster	n) Healthy			nallocated	Properties Help	{he}

Figure 3-32: Disk Management

4. From the New Partition Wizard, select **Next** (keeping the default settings) until you open the Format Partition window.

Format Partition To store data on this partition, yo	u must format it first.		
Choose whether you want to for	nat this partition, and if	so, what settings you v	want to use.
Do not format this partition	i.		
C Format this partition with t	he following settings:		
Eile system:	NTFS	~	
Allocation unit size:	Default	<u>~</u>	
⊻olume label:	New Volume		
Eerform a quick for	nat		
	ar compression		
	a compression		
Enable file and fold	a compression		

- 5. Ensure that **Do not format this partiton** checkbox is marked and complete the Wizard.
- 6. Continue installing NICE S/W, see Installing the NiceLog High Density Logger Software installation manuals for versions 8.9 and 9.0 on the ExtraNICE.
- 7. After the NICE S/W installation is completed, all Found New Hardware message boxes will disappear.

Installing the Image CD (Ghost) from a Workstation

NOTE: Where there is a faulty HDD, replace this HDD before installing the Image CD (Ghost).

- → To Check for Workstation NetBIOS configuration:
- 1. Click Start > Settings > Network and Dial-up Connections.
- 2. Right-click the Local Area Connection icon, and click Properties.

Network and Dial-up Connections _ 0 × File Edit View Favorites Tools Advanced Help 🖛 Back 🔹 🔿 🔹 🔂 🔞 Search 🖓 Folders 🚷 🦉 🧏 🗙 🖄 🧱 🕇 2 Go Address 📴 Network and Dial-up Connections -EB Make New Local Area Network and Dial-up Connection Connection Disable Connections Status Create Shortcut Local Area Connection Delete Type: LAN Connection Rename Status: Enabled Properties hz Intel(R) PRO/100 VE Network Connection 🛄 Displays the properties of the selected connection.

3. From the Local Area Connection Properties window, select Internet Protocol (TCP/IP) and then dick Properties.

ormood using.		
- Intel(R) PR0/11	00 VE Network Connectio	n
omponents checked	are used by this connecti	Configure on:
🗹 🔜 Client for Micro	osoft Networks	
🛛 🚚 File and Printe	r Sharing for Microsoft Ne	tworks
Not Not DE UL PLAN		
A Distance of Distance		
Internet Proto	col(ICEVIP)	
Internet Proto	Uninstall	Properties
Install	Uninstall	Properties
Internet Proto	Uninstall Uninstall	Properties col. The default imunication

Figure 3-35: Local Area Connection Properties Window

Figure 3-34: Check for Workstation NetBIOS Configuration

The Internet Protocol (TCP/IP) Properties window opens.

4. Click Advanced to reach the Advanced TCP/IP Settings window.

Figure 3-36: Internet Protocol (TCP/IP) Properties Window

rnet Protocol (TCP/IP) Prope	erties				?
eneral					
'ou can get IP settings assigned a nis capability. Otherwise, you need he appropriate IP settings.	utomatic 1 to ask s	ally if y our ne	our ne stwork	twork su administr	pports ator for
Obtain an IP address automa	itically				
C Use the following IP address:					
IP address:					
Subnet mask:	Г	4	i	-	-
Default gateway:	Г	4	4	8	1
Obtain DNS server address a	automatic	ally			
-C Use the following DNS serve	r address	es:			
Preferred DNS server.			+:	-	1
Alternate DNS server.		ч.	ę.		1
			1	Adv	anced .
			1		
		_		-	

5. From the Advanced TCP/IP Settings window, select the WINS tab, and then select Enable NetBIOS over TCP/IP.

Figure 3-37:	Advanced TCP/IP	Settings -	- WINS Tab



6. Close all open dialogs.

→ To Share Workstation CD-ROM:

- 1. Open My Computer and right-click CD-ROM.
- 2. Navigate to My Computer > CD-ROM > Sharing....

The Compact Disc Properties window opens.

Figure 3-38: Sharing...

🖳 My Computer			
File Edit View Favorites Tool	s Help		-
🖛 Back 👻 🔿 👻 🔂 🔞 Search	$\mathbb{P}_{F}Folders \ \textcircled{3} \ \mathbb{P} \ \mathbb{P} \ X \ \mathfrak{m} \ \ \blacksquare \bullet$		
Address 🖳 My Computer			• @@
		7	
My Computer	3½ Floppy Local Disk (C:) Compact Disc (A:) (D:)	Control Panel	
ing computer	-	Open	
Compact Disc (D:) Compact Disc		Search	
Story and A subsection and an end		Scan for Viru	Jses
		Sharing	
		Eject	N
		Create Shor	tcut
Displays the properties for sharing the s	elected folder	Properties	11.

- 3. Click the Sharing tab, and select Share this folder.
- 4. In the Share name text box, type in CDROM with no spaces but with CAPITAL LETTERS.
- 5. Click **Permissions** to access the **Permissions for CDROM** window.

eneral Hardw	a Sharing /eb Sharing	
You o netwo folder	an share this folder among other u rk. To enable sharing for this folde	sers on your er, click Share this
C Do not sh	are this folder	
 Share this 	folder	
Share name:	CDROM	-
Comment:		
User limit:	Maximum allowed	
	C Allow Users	
To set permis folder over th	sions for how users access this e network, click Permissions.	Permissions
To configure this shared fo	settings for Offline access to Ider, click Caching.	Caching
		New Share

Figure 3-39: Compact Disc (D:) Properties - Sharing Tab

6. From the **Permissions for CDROM** window, ensure that the **Everyone** group is defined with a **Read** permission.



Permissions for CDROM	<u>? ×</u>
Share Permissions	
Name	Add
Permissions: Full Control Change Read	Allow Deny
,	K Cancel Apply

- 7. Close all open dialogs.
- 8. Insert the 1st Image CD (Ghost) [Label: Image CD for PCI Logger / ICU / ISA Logger 8.9 W2K3 Appliance (CD #1 of 2)] in the Workstation CD-ROM.

Recovering the Logger



Right-click **My computer > Properties > Network Identification** tab to see the System

Properties window.

Figure 3-41: System Properties - Network Identification Tab

ystem Propert	ies			<u>?</u> ×
General Netwo	ork Identifical	tion Rardware	User Profiles	Advanced
Win on t	dows uses th he network.	e following inform	ation to identify	your computer
Full computer	name: N	IICE-Systems.		
Workgroup:	G	ROUPNAME	,	
To rename this Properties.	: computer or	join a domain, cli	sk	Properties
🔥 Changes	will take effe	et after you resta	t this computer	i.
		OK	Cancel	Apply

→ To Install the Image CD (Ghost):

- In the Logger, configure to startup from the floppy drive. (From the BIOS: BIOS FEATURES SETUP > BOOT SEQUENCE)
- 2. Insert the Diskette [Label Windows Server 2003 Appliance Recovery Network Installation Diskette] to the Floppy drive.

G Important!

Verify that the write protect tab on the diskette is closed. (Enable rewrite on diskette)

3. **Reboot** the Logger.

→ To Upload the Image from the Workstation CD-ROM:

G Important!

Use only menu options that are specifically mentioned! (The other options are for NICE CS Engineers only.)

1. From the MS DOS 6.22 Startup Menu, select 1 (NICE Products Images...) and press Enter. The window opens.

Figure 3-42: MS-DOS 6.22 Startup Menu



2. From the **MS-DOS 6.22 Startup Menu** now select machine type (1 – NiceLog PCI / 2 - ICU / 3 – NiceLog ISA 8.9) and press **Enter**.

Figure 3-43: MS-DOS 6.22 Startup Menu



3. Wait a few seconds for the **Download Ghost Image from Workstation CD Drive via Network** window and then fill in the details,see To Set Workstation, Domain / Workgroup, User Name and Password: on the previous page.

Enter workstation name Enter workgroup/domain

Enter work station user name

- 4. Wait a few seconds and then type your user name.
- 5. Type your password.
- 6. When prompted to create a password, type **N** and press **Enter**.

The Image CD (Ghost) will start running automatically.

- 7. Wait for the prompt and then replace the second CD [Label Image CD for PCI Logger / ICU / ISA Logger 8.9 W2K3 Appliance (CD # 2 of 2)].
- 8. Select **OK** and press **Enter**.
- 9. At the end of the installation a **Network Installation Done** notification appears.
- 10. Press **Enter** to confirm.
- ➡ To Restore BIOS Factory Settings:
- 1. Reboot the system (ALT+CTRL+DEL).
- 2. From the MS-DOS 6.22 Startup Menu select 2 (NICE CPU BIOS Settings...) and press Enter.

Figure 3-44: MS-DOS 6.22 Startup Menu

1.	. NICE Products Images	
2.	. NICE CPU BIOS Setting	
з.	. Norton Ghost Walker (Set new SID)	
4.	. Norton Ghost 8.0.	
5.	. Dos Prompt with CD Support.	

3. From the next screen, select your machine CPU type (NiceLog PCI / ICU / NiceLog ISA 8.9 BIOS Settings) and press **Enter** to restore the BIOS factory settings.

Figure 3-45: MS-DOS 6.22 Startup Menu

1. NiceLog PCI 9.0 BIOS Setting. (PC-62064) 2. NiceLog ICU 9.0 BIOS Setting. (PROX-1753) 3. NiceLog ISA 8.9 BIOS Setting. (PROX-1635) nter a choice: 1	-DOS	6.22 St	artuj	o Men	nu				
2. NiceLog ICU 9.0 BIOS Setting. (PROX-1753) 3. NiceLog ISA 8.9 BIOS Setting. (PROX-1635) nter a choice: 1	î.	NiceLog	PCI	9.0	BIOS	Setting.	(PC-62064)		
3. NiceLog ISA 8.9 BIOS Setting. (PROX-1635) nter a choice: 1	2.	NiceLog	ICU	9.0	BIOS	Setting.	(PROX-1753)		
nter a choice: 1	3.	NiceLog	ISA	8.9	BIOS	Setting.	(PROX-1635)		
	Inter	a choic	e: 1						

4. Wait a few seconds, the system will reboot automatically.

(Important!

Remove the diskette from the floppy drive while rebooting.

- 5. For Software Installation, see NICE S/W Installation on page 74.
- 6. Continue installing NICE S/W, see *Installing the NiceLog High Density Logger Software installation manuals for versions 8.9 and 9.0* on ExtraNICE.

4

Microsoft Client Operating Systems

This section provides information regarding Microsoft Client Operating Systems. This includes secure solutions, updates, and guidelines.

Contents

General	86
Windows XP	
Windows 7 32-bit/64-bit	
Windows 8 and Windows 8.1 32-bit/64-bit	
Windows 10 32-bit/64-bit	

General

Localization

NICE does not support machine names and/or domain names with non-ASCII characters (IRI) on Client workstations.

Windows XP NICE Product Support for Windows XP Service Pack 3

Product	NICE Product Support for Microsoft Windows XP Service Pack 3
Release	NICE Engage Platform 6.x, NICE Interaction Management 4.1, NICE Perform® Release 3 SP4, NICE Perform Release 3.1, Release 3.2, Release 3.5, and Version 8.9, NiceCall Focus III
Synopsis	This section describes NICE product support for Microsoft Windows XP Service Pack 3

Overview

This section provides information regarding NICE product support for Microsoft Windows XP, Service Pack 3.

Microsoft Windows XP, Service Pack 3 was certified on Version 8.9, NiceCall Focus III, Nice Perform Release 3 SP4 NICE Perform Release 3.1, NICE Interaction Management 4.1 and on NICE Engage Platform 6.x, for all client side applications as follows:

Server Side Support

NiceCall Focus III

Client Side Support

- NICE SetSecurity Application
- NICE Reporter Viewer
- NICE ScreenAgent
- NICE ScreenSense Agent
- NICE Player
- Record on Demand (ROD)
- Survey Manager
- Remote Tape Server (RTS)
- Media Library
- VoIP Recording Agent (VRA)

Security-Tuning Guidelines for NICE Software Components Running Windows XP Service Pack 2

Product	Security-Tuning Guidelines for NICE Software Components Running Microsoft Windows XP Service Pack 2
Release	
Synopsis	

Overview

This section provides guidelines for NICE components running on client workstations which run on Microsoft Windows XP.

Microsoft recently released Service Pack 2 for Windows XP. In addition to including all previous hot fixes, Service Pack 2 provides the following enhanced security features:

- A built-in firewall
- Enhanced security for Internet Explorer
- Checks for a valid signature of programs during installation

By default, a firewall closes all ports to incoming network packets. Unlike other firewalls which enable you to open a port permanently (known as - statically opened ports), the firewall installed with Service Pack 2 enables you to define specific applications for which the firewall will open the necessary listening ports. These listening ports will remain open only when, and as long as, these applications are running (known as - dynamically opened ports). You do this by adding the applications you want to the firewall Exceptions List.

Sometimes when an application runs for the first time, a warning message appears asking if you want to unblock the application. Unblocking an application will automatically add its name to the firewall Exceptions List. Other times, you will have to add the application manually to the firewall Exceptions List.

The purpose of this section is to provide a summary of the tested NICE software components in this environment, and describe the needed security-tuning for obtaining full-functionality of the system. Security-tuning is performed in the firewall and in Internet Explorer.

NOTE: After you complete security-tuning NICE components, we recommend that you monitor all recording components at the site to ensure that they are running properly.

Preinstallation Requirements

If NICE Web applications Version 8.8 are installed at your site, before installing Microsoft Windows XP Service Pack 2, you must install NICE Web Applications Support Package for Microsoft Windows XP SP2 Client on the Web Server.

NOTE:

- For 8.9 systems (NiceCLS and Client/Server Applications Version 8.9), NICE Web Applications Support Package for Windows XP SP2 Client should be installed on top of Service Pack 4, and 8.9 Web Applications Feature Pack.
- The NICE Web Applications Support Package for Windows XP SP2 Client can be found on www.extranice.com.

+ To install the NICE Web Applications Support Package for Microsoft Windows XP SP2 Client:

On the Web Server, navigate to the location <Installation Path >\Universe, and replace the QueryCriteria.asp file with the QueryCriteria.asp file dated 29 August 2004.

Security-Tuning List

NICE Component	Security- Tuning Firewall Unblocked	Manually Add to Firewall Exceptions Tab	Internet Explorer	Comments
NICE ScreenAgent Version 8.8	NICE ScreenAgent See Firewall Unblock Example on page 91.	-		
NICE Perform ScreenAgent	NICE ScreenAgent See Firewall Unblock Example on page 91.	-		

Table 4-1: Security-Tuning List

NICE Component	Security- Tuning Firewall Unblocked	Manually Add to Firewall Exceptions Tab	Internet Explorer	Comments
NICE ScreenSense Version 8.8	-	-		
NICE Client/Server Applications Version 8.8	NICE Supervision Media Library Printer Server NICE RTS See Firewall Unblock Example on the facing page.	NICE Administrator See Adding NICE Administrator to the Exceptions List on page 94.		
NICE Client/Server Applications Version 8.9	NICE Supervision Media Library Printer Server NICE RTS See Firewall Unblock Example on the facing page.	NICE Administrator See Adding NICE Administrator to the Exceptions List on page 94.		
NICE SNMP Manager Version 8.9	-	Add from the following location: C:\WINDOWS\system32\snmptrap.exe See Adding snmptrap.exe to the Exceptions List on page 96.		

Table 4-1: Security-Tuning List (continued)

NICE Component	Security- Tuning Firewall Unblocked	Manually Add to Firewall Exceptions Tab	Internet Explorer	Comments
NICE Web Applications Version 8.8			Install Crystal Smart Viewer for ActiveX. See Crystal	See Note (1).
NICE Perform Web Applications			Smart Viewer for ActiveX Guideline on the next page.	

Table 4-1: Security-Tuning List (continued)

You must install the NICE Web Applications Support Package for Microsoft Windows XP SP2 Client on the Web Server.

Security-Tuning Your System

Firewall Unblock Example

NOTE: Although this section provides one firewall unblock example only (ScreenAgent), a similar Windows Security Alert message appears when NICE Supervision, Media Library, Printer Server, and NICE RTS run for the first time.

When certain applications run for the first time, a warning message appears asking if you want to unblock the application. Clicking Unblock will add the application to the Firewall Exceptions List, enabling you to run the application. See Figure 4-1.

Figure 4-1: Windows Security Alert

🕽 Wind	ows Secur	ity Alert		×
Ð	To help some fea	protect your compu atures of this progra	ter, Windows Fir m.	ewall has blocked
Do you	u w ant to l	keep blocking this p	rogram?	
Q	Name: Publisher:	ScreenAgent Nice Systems Ltd.		
		Keep Blocking	Unblock	Ask Me Later
Windov Internet unblock	ws Firewall h t or a networ k it. <u>When sł</u>	as blocked this program k. If you recognize the p nould I unblock a progra	from accepting con program or trust the p m?	nections from the publisher, you can

Crystal Smart Viewer for ActiveX Guideline

When you select the **Reports** tab, an Internet Explorer Security Warning message appears, asking if you want to install the Crystal Smart Viewer for ActiveX. Click **Install**. See Figure 4-2.

Figure 4-2: Internet Explorer - Security Warning

Do you	want to install this software?		
	Name: Crystal Smart Viewer	for ActiveX	
	Publisher: Crystal Decisions,	Inc	
* Mor	e options	Install	Don't Install

Opening the Firewall

➡ To open the firewall:

1. From the **Start** menu, select **Settings > Control Panel > Windows Firewall**. The Windows Firewall window appears.

Figure 4-3: Windows Firewall - General Tab



2. Ensure that **On (recommended)** is selected.

Adding NICE Administrator to the Exceptions List

When you add NICE Administrator to the Exceptions List, you do not need to click **Browse** and locate its executable in its installation folder. By default NICE Administrator appears in the Programs list in the Add a Program window.

	_
	- 14

• To add NICE Administrator to the Exceptions list:

 In the Windows Firewall window, click the Exceptions tab. The Exceptions tab appears as shown below. File and Printer Sharing and Remote Assistance appear selected.

Figure 4-4: Windows Firewall - Excedptions Tab

minuo	ws Firewall	The second se			
General	Exceptions	Advanced			
Windov progran to work <u>P</u> rogran	vs Firewall is b ns and service better but mig ns and Servic	v Nocking incoming net s selected below. Ad ght increase your sect es:	work connec Iding exceptic urity risk.	tions, except ons allows so	for the me programs
Name					
■ Re ■ Re ■ UF	mote Assista mote Deskto PnP Framewo	nce p rk			
Add	Program	Add Port	Edit	s a program	<u>D</u> elete
<u>What a</u>	<u>re the risks of</u>	allowing exceptions?			

NOTE: Ensure that Display a notification when Windows Firewall blocks a program is selected.

2. Click Add Program.

The Add a Program window appears.

3. In the Add a Program window, select NICE Administrator.

Figure 4-5: Add a Program

FACSys Desktop (Client		
S Internet Explorer			
i Interwise Participa	nt		
🚺 Interwise Participa	nt Options		
🛓 Java Web Start			
Microsoft Visio			
NICE Administrato	ſ		
S NICE Evaluator			
NICE Forms Desig	ner		
NICE List Editor			
NICE Login			
	n Files/NICE Su	stems\bin\NLIAD	MIN Prowee
Path: C:\Program	n Files\NICE Sy	stems\bin\NUAD	MIN Browse.

4. Click **OK**. NICE Administrator now appears in the **Exceptions** tab.

Window program to work	ws Firewall is t ms and service (better but mi	blocking incoming r es selected below. a ght increase your se	network connection: Adding exceptions a ecurity risk.	s, except for the allows some programs
Program	ms and Servic	es:		
Name	9			
∠ Fi	le and Printer	Sharing		
	ICE Administra	ator		
	emote Assista	nce		
	emote Deskto	P		j
	FRE FIAILIEWU	IK		
L				
Add	Program	Add Dat	1 Edit	Delete
Add	P <u>r</u> ogram	Add Port	<u></u> ⊑dit	Delete
Add	P <u>r</u> ogram	Add Port	∫ <u>E</u> dit	Delete
Add	P <u>rogram</u>	Add P <u>o</u> rt	s Firewall blocks a p	<u>D</u> elete

Figure 4-6: Windows Firewall - Exceptions Tab

5. In the **Exceptions** tab, click **OK**.

Adding snmptrap.exe to the Exceptions List

snmptrap.exe does not appear in the Programs list in the Add a Program window. To add snmptrap.exe, you must click **Browse**, then locate **snmptrap.exe** in the **C:\WINDOWS\system32** directory.

→ To add snmptrap.exe to the Exceptions list:

- 1. In the Windows Firewall window, in the **Exceptions** tab, click **Add Program.** The Add a Program window appears.
- 2. Click Browse, go to C:\WINDOWS\system32 and select snmptrap.exe.

Figure 4-7: Bro	owse Window
-----------------	-------------

Browse				? 💈
Look jn:	🔁 system32		👻 G 🖻 🛤	•
	rsh.exe	schtasks.exe	skeys.exe	spnpinst.exe
Mu Becent	rsm.exe	sdbinst.exe	sirundii.exe	spoolsv.exe
Documents	🔗 rsmui.exe	services.exe	smbinst.exe	spupdsvc.exe
	🚭 rsnotify.exe	sessmgr.exe	smlogsvc.exe	spupdwxp.exe
Desktop	rsopprov.exe	setup.exe	Sndrec32.exe	subst.exe
Desktop	rtcshare.exe	setver.exe	sndvol32.exe	svchost.exe
	runas.exe	sfc.exe	snmp.exe	🣁 syncapp.exe 🕥 sysedit.exe
Mu Documents	winner.exe	share.exe	🚺 sol.exe	🎝 syskey.exe
ny booanonio	rwinsta.exe	shmgrate.exe	sort.exe	Sysocmgr.exe
	sc.exe	shutdown.exe	Spider.exe	systemino.exe
My Computer	scardsvr.exe	🕎 sigverif.exe	📰 spiisupd.exe	🛅 taskkill.exe
	<		(III)	>
	File <u>n</u> ame:	snmptrap.exe	~	<u>O</u> pen
My Network	Files of type:	Applications (*.exe;*.com	;".icd) 🗸 🗸	Cancel

3. Click **Open**. snmptramp.exe is now added to the Exceptions list.

eneral	Exceptions	Advanced			
Windov from ou Genera Program	vs Firewall is t tside sources I tab and sele	urned off. Your cor such as the Intern ct On.	nputeris at st. We reco	risk of attack mmend that	s and intrusions you click the
Nam	a				1
	emote Deskto mptrap.exe PnP Framewo	k			
Add	Program	Add P <u>o</u> rt) <u>E</u> d	it	<u>D</u> elete

Figure 4-8: Windows Firewall - Exceptions Tab

4. Click OK.

Windows 7 32-bit/64-bit

Client Application Compatibility

NICE Systems supports the following editions of Microsoft Windows 7 in both 32-bit and 64-bit configurations:

- Microsoft Windows 7 Professional Edition
- Microsoft Windows 7 Enterprise Edition
- Microsoft Windows 7 Ultimate Edition

The following table shows the compatibility of NICE Perform/NICE Interaction Management Release 4.1/NICE Engage Platform client applications with Microsoft Windows 7 for Releases 3.1, 3.2, and 3.5:

Important!

- NICE Applications and the Set Security feature support only the 32-bit version of Internet Explorer.
- (*) These components must be installed with the UAC turned **OFF**.

Table 4-2: Compatibility With Microsoft Windows 7 32-bit and 64-bit by Release

Application	NICE Per	rform 3.1	NICE Per	rform 3.2	NICE Pe	rform 3.5	NIM NICE Engag	1 4.1 e Platform 6.x
	Windows 7 32-bit	Windows 7 64-bit	Windows 7 32-bit	Windows 7 64-bit	Windows 7 32-bit	Windows 7 64-bit	Windows 7 32-bit	Windows 7 64-bit
Screen Agent	Supported as of UP 3.1.18 (*)	Supported as of UP 3.1.18 (*)	Supported as of UP 3.2.9 (*)	Supported as of UP 3.2.9 (*)	Approved	Approved	Approved	Approved
ROD Client	Approved (*)	Not Supported	Approved	Approved	Approved	Approved	Approved	Approved
Standalone NICE Player and NICE Player Codec Pack	Approved (*)	Approved (*)	Approved	Approved	Approved	Approved	Approved	Approved
Reporter Viewer	Approved (*)	Not Supported	Approved	Approved	Approved	Approved	Approved	Approved
NICE Applications (including Set Security)	Approved (*)	Approved (*)	Approved	Approved	Approved	Approved	Approved	Approved

Table 4-2: Compatibility With Microsoft Windows 7 32-bit and 64-bit by Release (continued)

Application	NICE Pe	rform 3.1	NICE Per	rform 3.2	NICE Pe	rform 3.5	NIN	14.1
							/NICE Engage	e Platform 6.x
	Windows 7 32-bit	Windows 7 64-bit	Windows 7 32-bit	Windows 7 64-bit	Windows 7 32-bit	Windows 7 64-bit	Windows 7 32-bit	Windows 7 64-bit
Survey Manager	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved
VRA	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Approved	Approved
Media Library	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved
BSF Tool kit	Approved	Not Supported	Approved	Not Supported	Approved	Approved	Approved	Approved
NICE Sentinel Remote Client	Approved (*)	Approved (*)	Approved	Approved	Approved	Approved	Approved	Approved
ScreenSense Agent	Not Supported	Not Supported	Supported as of UP 3.2.11 (*)	Supported as of UP 3.2.11 (*)	N/A	N/A	N/A	N/A

Table 4-2: Compatibility With Microsoft Windows 7 32-bit and 64-bit by Release (continued)

Application	NICE Pe	rform 3.1	NICE Per	form 3.2	NICE Pe	rform 3.5	NIM	14.1
							/NICE Engage	e Platform 6.x
	Windows 7 32-bit	Windows 7 64-bit						
Desktop Analytics (using PO Client)	N/A	N/A	N/A	N/A	Approved	NICE Approval	Approved	NICE Approval
RTS	Approved							

Using Silent Installation to Install Client Applications

NOTE: The commands listed below are applicable to both Microsoft Windows 7 32bit and 64-bit operating systems.

Use the following commands to install NICE Perform/NICE Interaction Management/NICE Engage Platform client-side applications using the silent installation on workstations running Microsoft Windows 7 (usually from a central deployment server, such as SMS/SCCM 2007, etc.):

- Set Security Application on the facing page.
- ScreenSense Agent on the facing page.
- NICE Player and NICE Player Codec Pack on the facing page.
- Reporter Viewer on the facing page.
- NICE ScreenAgent on page 104.

- Record on Demand on page 106.
- PO Client on page 106
- NICE Insight to Impact Bridge on page 106
- Nice BSF Toolkit on page 106

Set Security Application

Enter in the Command line:

SetSecurityApp.exe Server <nnnn>

in which "nnnn" is the Host Name, or the IP Address, or the FQDN of the NICE Perform/NICE Interactions Management Applications server.

ScreenSense Agent

Enter in the Command line:

AgentSilentInstallation.bat

NOTE: Before running this command, you must define the name of the NICE Applications Server in the **AgentSilentInstallation.bat** file.

NICE Player and NICE Player Codec Pack

Enter in the Command line:

msiexec /i "Nice Player.msi" /qn

msiexec /i "Nice Player Codec Pack.msi" /qn

Reporter Viewer

For NICE Perform Release 3.x

Enter in the Command line:

msiexec /i "ReporterViewer.msi" /qn

For NICE Interaction Management Release 4.1/NICE Engage Platform Release 6.x

Enter in the command line:

ReporterViewer.exe /S /D=<ReporterViewer installation folder>

or

msiexec /i "ReporterViewer.msi" /qn

For NICE Interaction Management only, after installation of the **ReporterViewer.msi**, install the SAP Business Object BI platform which is located in the following folder:

C:\Program Files (x86)\Nice Systems\Reporter Viewer\32bitCA\32bit

In a silent installation BI platform, enter the command line:

setup.exe –r response.ini /q

NICE ScreenAgent

For NICE Perform Release 3.x

Enter in the Command line:

Setup.exe

NOTE: Before running this command, you must configure the agent.cfg configuration file and place it with the **setup.exe**. file.

For NICE Interaction Management 4.1/NICE Engage Platform 6.x

+ To install NICE ScreenAgent using a silent installation:

- 1. Copy the NICE ScreenAgent installation folder to a temporary location on the server on which you want to run the silent installation.
- 2. Extract the **.msi** files by running the following command in the Run window:

<Path\Setup.exe file> /t:<Path\target folder> /c

Here **<Path\Setup.exe file>** is the path to the Setup file in the NICE ScreenAgent installation folder and **<Path\target folder>** is the path to the folder to which you want to extract the .msi files.

IMPORTANT

You must leave a space (not an underscore) after **<path to Setup.exe file>** and after **<target folder>**.

This command extracts two .msi files to the target folder:

- screenagentxp.msi (32-bit installation)
- screenagentxp64.msi (64-bit installation)
- 3. To install the NICE ScreenAgent software, run one of the following procedures (for details about configuring the parameters see *Configuring NICE ScreenAgent Installation Parameters*, in the *ScreenAgent Installation and Configuration Guide*):
 - If you are running the silent installation locally on each client machine, in the Run window, run the following command: msiexec.exe /i <full path to .msi file> /q SYSADMIN = <Application Server Host Name>

G Important!

You must leave a space (not an underscore) after msiexec, after /i, after <full path to .msi file>, and after q.

-or-

If you are deploying NICE ScreenAgent using a publishing application, configure the publishing application to run the relevant .msi file.

NOTE:

You can use any publishing application that supports .msi files.

After completing the installation, you configure the NICE ScreenAgent in the System Administrator.

Record on Demand

Enter in the Command line:

msiexec /i "RODSetup.msi" /qn SERVERURL=</nnn> LAUNCH="No" ALLUSERS=1

in which "nnnn" is the Host Name

PO Client

Enter in the command line:

msiexec /i "Full path to the NICE Real-Time Client.msi" /qn STANDALONE="1" EGDEFAULTP="full path for project.XML"

NICE Insight to Impact Bridge

Enter in the command line:

msiexec /i "full path to the NICE Insight to Impact Bridge.msi file" /qn EGHOST=" Application Server HostName "

Nice BSF Toolkit

For NICE Interaction Management/NICE Engage Platform, in the Command line, enter the following:

msiexec /i "NICE BSF Toolkit.msi" /qn

Manually Installing Client Applications

NOTE:

The procedures listed below are applicable to all NICE Perform Release 3.x/NICE Interaction Management 4.1/NICE Engage Platform 6.x client-side components on workstations running Microsoft Windows 7 32-bit or 64-bit operating systems. Keep in mind that:

- In NICE Perform Release 3.x, UAC must be turned off before installing clientside applications marked by an asterisk (*) in Windows 7 32-bit/64-bit on page 99. After installation is finished the UAC should be turned on.
- In NICE Interaction Management Release 4.1/NICE Engage Platform 6.x, UAC can be turned on during the installation of the client-side applications.
- → To install client-side applications on workstations with Microsoft Windows 7:
- Locate the application installation directory. The default path for NICE Player, NICE Player Codec Pack, Reporter Viewer, and Record on Demand is: \\server_name\...\Program Files\NICE Systems\Applications\Client Side Applications
- 2. Copy the required application installation file(s) to the local computer.
- 3. Log in to the workstation using a User with Administrative privileges.
- 4. Refer to Windows 7 32-bit/64-bit on page 99 to see if the component requires that the UAC be turned **Off**. If the UAC can remain on, run the installation wizard.

If the UAC must be turned off, do one of the following:

If you logged in under the Built-in Administrator, in the Local Group Policy Editor window, set the User Account Control: Admin Approval Mode for the Built-in Administrator policy to Disabled.

Figure 4-9: Local Group Policy Editor Window

Eile Action View Help	
al Computer Policy Policy Computer Configuration Recovery console: Allow automatic administrative logon Software Settings Recovery console: Allow floppy copy and access to all drives and all folders Name Resolution Scripts (Startup/St) Scripts (Startup/St) Shutdown: Clear virtual memory pagefile System cryptography: Force strong key protection for user keys stored on the computer System cryptography: Use FIPS compliant algorithms for encryption, hashing, and sig System objects: Require case insensitivity for non-Windows subsystems System objects: Strengthen default permissions of internal system objects (e.g. Symbo	Security Settin Disabled Disabled Enabled Disabled Not Defined Disabled Enabled Enabled Posix
 Judation Judation Judation Judation Judation Judation Judation Judation Judation System settings: Use Certificate Rules on Windows Executables for Software Restrictio System settings: Use Certificate Rules on Windows Executables for Software Restrictio System settings: Use Certificate Rules on Windows Executables for Software Restrictio Windows Firev Windows Firev Network List N Public Key Pol Software Restr Software Restr Software Restr Juser Account Control: Behavior of the elevation prompt for administrators in Admin User Account Control: Detect application installations and prompt for elevation User Account Control: Only elevate executables that are signed and validated User Account Control: Only elevate UIAccess applications that are installed in secure I User Account Control: Nun all administrators in Admin Approval Mode User Account Control: Switch to the secure desktop when prompting for elevation User Account Control: Virtualize file and registry write failures to per-user locations 	Disabled Disabled Elevate witho Prompt for cr Disabled Enabled Enabled Enabled Enabled Enabled Enabled
If you logged in under another user with Administrative privileges, in the Local Group Policy Editor window, set the User Account Control: Run all administrators in Admin Approval Mode policy to Disabled.

Figure 4-10: Local Group Policy Editor Window

I Local Group Policy Editor		- • •	6
<u>File</u> <u>Action</u> <u>View</u> <u>H</u> elp)		
(= =) 🖄 🗔 🗙 😒	🖻 🛛 🖬		
I Computer Policy	Policy	Security Setting	^
Computer Configuration	Recovery console: Allow automatic administrative logon	Disabled	
Software Settings	Recovery console: Allow floppy copy and access to all drives and all folders	Disabled	
Windows Settings	🗟 Shutdown: Allow system to be shut down without having to log on	Enabled	
Scrintz (Startun/Shi	📓 Shutdown: Clear virtual memory pagefile	Disabled	
Deployed Printers	🗟 System cryptography: Force strong key protection for user keys stored on the	Not Defined	
Security Settings	🗟 System cryptography: Use FIPS compliant algorithms for encryption, hashing,	Disabled	
Account Policie	🗟 System objects: Require case insensitivity for non-Windows subsystems	Enabled	
🖌 强 Local Policies 😑	🗟 System objects: Strengthen default permissions of internal system objects (e.g	Enabled	
Audit Policy	🔊 System settings: Optional subsystems	Posix	
D G User Rights.	🗟 System settings: Use Certificate Rules on Windows Executables for Software Re	Disabled	
b Gase Security Opt	🗟 User Account Control: Admin Approval Mode for the Built-in Administrator ac	Disabled	
Windows Firews	🗟 User Account Control: Allow UIAccess applications to prompt for elevation wit	Disabled	
Network List M:	🔛 User Account Control: Behavior of the elevation prompt for administrators in	Prompt for consent for	
Delic Key Polic	🔛 User Account Control: Behavior of the elevation prompt for standard users	Prompt for credentials	
Software Restric	🕃 User Account Control: Detect application installations and prompt for elevation	Disabled	
Application Cor	🕃 User Account Control: Only elevate executables that are signed and validated	Disabled	
IP Security Polic	🗟 User Account Control: Only elevate UIAccess applications that are installed in s	Enabled	=
Advanced Audi	📓 User Account Control: Run all administrators in Admin Approval Mode	Disabled	
Policy-based QoS	🖏 User Account Control: Switch to the secure desktop when prompting for eleva	Enabled	
Administrative Templa	📓 User Account Control: Virtualize file and registry write failures to per-user locat	Enabled	-
< <u> </u>	• [- F	

5. Run the installation wizard.

Windows 8 and Windows 8.1 32-bit/64-bit

Client Applications Compatibility

NICE Interaction Management 4.1.47 and later and NICE Engage Platform 6.x supports the following editions of Microsoft Windows 8 and Microsoft Windows 8.1, in both 32-bit and 64-bit configurations:

- Microsoft Windows 8 Professional Edition
- Microsoft Windows 8 Enterprise Edition
- Microsoft Windows 8.1 Professional Edition
- Microsoft Windows 8.1 Enterprise Edition

The following table shows the compatibility of NICE Interaction Management Release 4.1 47 and later and NICE Engage Platform 6.x client applications with Microsoft Windows 8/8.1:

Table 4-3: Compatibility With Microsoft Windows 8 and 8.1 32-bit and 64-bit for Release 4.1.47 and later

Application	Windows 8 32-bit	Windows 8 64-bit	Windows 8.1 32-bit	Windows 8.1 64-bit
Screen Agent	Approved	Approved	Approved	Approved
ROD	Approved	Approved	Approved	Approved

ApplicationWindows 8
32-bitWindows 8
64-bitWindows 8.1
32-bitWindows 8.1
64-bitStandalone NICE Player and NICE Player Codec PackApprovedApprovedApproved

Table 4-3: Compatibility With Microsoft Windows 8 and 8.1 32-bit and 64-bit for Release 4.1.47 and later (continued)

Standalone NICE Player and NICE Player Codec Pack	Approved	Approved	Approved	Approved
Reporter Viewer	Approved	Approved	Approved	Approved
NICE Applications (including Set Security)	Approved	Approved	Approved	Approved
Survey Manager	Not Supported	Approved	Not Supported	Not Supported
VRA	Approved	Approved	Approved	Approved
Media Library	Approved	Approved	Approved	Approved
BSF Tool Kit	Approved	Approved	Approved	Approved
NICE Sentinel Remote Client	Not Supported	Approved	Not Supported	Approved

Application	Windows 8 32-bit	Windows 8 64-bit	Windows 8.1 32-bit	Windows 8.1 64-bit
Real-Time Designer	Approved	Approved	Approved	Approved
NOTE:		1-1		
The Real-Time Designer cannot be installed on Windows 8/8.1 in VMware view.				
The Real-Time Designer requires .NET Framework 4 to be installed side-by-side with .NET Framework 4.5 (the Windows 8/8.1 default).				
Real-Time Client	Approved	Approved	Approved	Approved
NOTE:				
The Real-Time Client requires .NET Framework 4 to be installed side-by-side with.NET Framework 4.5 (the Windows 8/8.1 default)				

Table 4-3: Compatibility With Microsoft Windows 8 and 8.1 32-bit and 64-bit for Release 4.1.47 and later (continued)

Using the Silent Installation to Install Client Applications

Use the following commands to install NICE Interaction Management and NICE Engage Platform client-side applications with the silent installation on workstations running Microsoft Windows 8 and Windows 8.1:

- Set Security Application on the next page
- NICE Player and NICE Player Codec Pack on the next page
- NICE Screen Agent on the next page

Record on Demand on the facing page

Set Security Application

This describes how to install the SetSecurity Application.

→ To install the SetSecurity Application:

At the command-line prompt, type SetSecurityApp.exe Server <*nnnn*>.
 Where *nnnn* is the Host Name, IP Address, or the FQDN of the NICE Interactions Management Applications server.

NICE Player and NICE Player Codec Pack

This topic describes how to install the NICE Player and NICE Player Codec Pack.

- → To use NICE Player and NICE Player Codec Pack:
- At the command-line prompt, type:
 msiexec /i "Nice Player.msi" /qn
 msiexec /i "Nice Player Codec Pack.msi" /qn

NICE Screen Agent

This section describes how toinstall NICE ScreenAgent by using the silent installation Use one of the following methods:

- Run the silent installation locally on each client machine on which you want to install NICE ScreenAgent.
- Use a publishing application to deploy NICE ScreenAgent on all the client machines.

➡ To install NICE ScreenAgent using a silent installation:

1. Copy the NICE ScreenAgent installation folder to a temporary location on the server where you want to run the silent installation.

2. Extract the **.msi** files by running the following command in the **Run** window:

<Path\Setup.exe file> /t:<Path\target folder> /c

where **<Path\Setup.exe file>** is the path to the Setup file in the NICE ScreenAgent installation folder and **<Path\target folder>** is the path to the folder with the **.msi** files to be extracted.

This command extracts two .msi files to the target folder:

- screenagentxp.msi (32-bit installation)
- screenagentxp64.msi (64-bit installation)
- 3. To install the NICE ScreenAgent software, run *one* of the following procedures:
 - For local manual installation, in the **Run** window on each client machine, type the following command:

msiexec.exe /i <full path to .msi file> /q SYSADMIN = <Application Server Host Name>

NOTE:

You must leave a space (not an underscore) after path to Setup.exe file> and after <target folder>.

You must leave a space (not an underscore) after msiexec, after /i, after <full path to .msi file>, and after q.

Or

For a batch installation, configure the publishing application to run the relevant .msi file.

NOTE: You can use any publishing application that supports **.msi** files. After completing the installation, configure the NICE ScreenAgent in the System Administrator.

Record on Demand

This topic describes how to install the Record on Demand application.

➡ To use Record on Demand:

At the command-line prompt, type the following:

msiexec /i "RODSetup.msi" /qn SERVERURL=<*nnnn*> LAUNCH="No" ALLUSERS=1

Where *nnnn* is the Host Name.

Manually Installing NICE Client Applications

NOTE: The procedures listed below are applicable to all NICE Interaction Management 4.1/NICE Engage Platform client-side components on workstations running Microsoft Windows 8/8.1 operating systems.

In NICE Interaction Management Release 4.1/NICE Engage Platform systems, UAC can be turned on while installing client-side applications.

+ To manually install NICE client-side applications on workstations with Microsoft Windows 8 or Microsoft Windows 8.1:

- 1. Log in to the workstation with a valid user with administrative privileges.
- 2. Locate the application installation directory. The default path for NICE Player, NICE Player Codec Pack, Reporter Viewer, and Record on Demand is:

\\server_name\...\Program Files\NICE Systems\Applications\Client Side Applications

- 3. Copy the required application installation file(s) to the local computer.
- 4. Run the installation wizard.

Windows 10 32-bit/64-bit

This section provides information on Microsoft Windows 10 Operating system, both in the 32-bit and 64-bit versions.

Client Applications Compatibility

NICE Engage Platform supports the following editions of Microsoft Windows 10, in both 32-bit and 64-bit configurations:

- Microsoft Windows 10 Professional Edition
- Microsoft Windows 10 Enterprise Edition

The following table shows the compatibility of client applications with NICE Engage Platform 6.4 and up with Microsoft Windows 10:

Table 4-4: Compatibility with Microsoft Windows 10 32-bit and 64-bit for NICE Engage Platform

	Windows 10 Profes	sional	Windows 10 Enterprise		
Application	32-bit	64-bit	32-bit	64-bit	
Screen Agent	Approved	Approved	Approved	Approved	
Record on Demand/Stop on Demand	Approved	Approved	Approved	Approved	
Standalone NICE Player and NICE Player Codec Pack	Approved	Approved	Approved	Approved	

Table 4-4: Compatibility with Microsoft Windows	10 32-bit and 64-bit for NICE Engage Platform (continued)
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	Windows 10 Profes	sional	Windows 10 Enterprise		
Application	32-bit	64-bit	32-bit	64-bit	
Reporter Viewer	Approved	Approved	Approved	Approved	
QM Apps	Approved	Approved	Approved	Approved	
Survey Manager	Not approved	Not approved	Not approved	Not approved	
VRA	Not approved	Not approved	Not approved	Not approved	
Media Library	Not approved	Not approved	Not approved	Not approved	
BSF Tool Kit	Approved	Approved	Approved	Approved	
NICE Sentinel Remote Client	Approved	Approved	Approved	Approved	

	Windows 10 Profes	sional	Windows 10 Enterprise		
Application	32-bit 64-bit		32-bit	64-bit	
Real-Time Designer	Approved	Approved	Approved	Approved	
Real-Time Client	Approved	Approved	Approved	Approved	
NDM/SRT/RHT	Approved	Approved	Approved	Approved	
Engage Search	Approved	Approved	Approved	Approved	
Analytics Apps	Approved	Approved	Approved	Approved	
High Availability Manager	Not approved	Not approved	Not approved	Not approved	
NICE Web Applications	Approved	Approved	Approved	Approved	

Table 4-4: Compatibility with Microsoft Windows 10 32-bit and 64-bit for NICE Engage Platform (continued)

Using the Silent Installation to Install Client Applications

Use the following commands to install NICE Engage Platform client-side applications with the silent installation on workstations running Microsoft Windows 10:

- Reporter Viewer
- NICE Player and NICE Player Codec Pack below
- Record on Demand on the facing page
- NICE BSF Toolkit on the facing page
- RTI Client on the facing page
- NICE Insight to Impact Bridge on the facing page

Reporter Viewer

→ To install the Reporter Viewer Application:

 In the command-line prompt, enter the following command: ReporterViewer.exe /S /D=<ReporterViewer installation folder> or

```
msiexec /i "ReporterViewer.msi" /qn
```

2. After installing the Reporter Viewer, install the SAP Business Object BI platform located in the following folder:

C:\Program Files (x86)\Nice Systems\Reporter Viewer\32bitCA\32bit

In a silent installation BI platform, enter the following command:

setup.exe -r response.ini /q

NICE Player and NICE Player Codec Pack

- → To install the NICE Player and NICE Player Codec Pack:
- In the command-line prompt, enter the following command:

msiexec /i "Nice Player.msi" /qn

msiexec /i "Nice Player Codec Pack.msi" /qn

Record on Demand

→ To install the Record on Demand:

At the command-line prompt, type the following:

msiexec /i "RODSetup.msi" /qn SERVERURL=<nnn> LAUNCH="No" ALLUSERS=1

Where *nnn* is the Host Name.

NICE BSF Toolkit

→ To install the NICE BSF Toolkit:

In the command-line prompt, enter the following command:

```
msiexec /i "NICE BSF Toolkit.msi" /qn
```

RTI Client

→ To install the RTI Client:

In the command-line prompt, enter the following command:

```
msiexec /i "Full path to the NICE Real-Time Client.msi" /qn STANDALONE="1" EGDEFAULTP="full path for
project.XML"
```

NICE Insight to Impact Bridge

➡ To install the NICE Insight to Impact Bridge

In the command-line prompt, enter the following command:

msiexec /i "full path to the NICE Insight to Impact Bridge.msi file" /qn EGHOST=" Application Server HostName"

Manually Installing NICE Client Applications

NOTE: The procedures listed below are applicable to all NICE Engage Platform client-side components on workstations running Microsoft Windows 10 operating system.

In NICE Engage Platform systems, UAC can be turned on while installing client-side applications.

+ To manually install NICE client-side applications on workstations with Microsoft Windows 10:

- 1. Log in to the workstation with a valid user with administrative privileges.
- 2. Locate the application installation directory. The default path for NICE Player, NICE Player Codec Pack, Reporter Viewer, and Record on Demand is:

\\server_name\...\Program Files\NICE Systems\Applications\Client Side Applications

- 3. Copy the required application installation file(s) to the local computer.
- 4. Run the installation wizard.

5

Internet Explorer

This section describes compatibility of Internet Explorer with NICE Web Applications.

G Important!

NICE Applications and the Set Security feature support only the 32-bit version of Internet Explorer.

Using XBAP with Internet Explorer

- When using XBAP, the **Tool** menu disappears from the Internet Explorer tool bar. To view the tool menu, you can do one of the following:
 - Open a new tab. The **Tools** menu will be available in the new tab.
 - Click the Internet Options button in Internet Explorer and use the Internet Options window. If this button does not appear, right-click in the Button bar and add it.
- The URL address to any NICE Interaction Management/NICE Engage Platform projects you were using will be different when using XBAP.

Instead of the ASPX link http://<server name>/NiceApplications/Desktop/webpage/DeskTopWebForm.aspx, the new address will be http://<server name>/NiceApplications/Desktop/XbapApplications/NiceDesktop.XBAP.

NICE Engage Platform 6.x is designed to work only with XBAP, but not with ASPX.

If you previously created shortcuts/favorites, then replace all previously saved links to the new address.

For more information on setting up XBAP, see the Workstation Setup Guide

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Internet Explorer 6

Compatibility of NICE Web Applications with Internet Explorer 6

Product	NICE Interaction Management, NiceUniverse Web Application, NICE Sentinel, NICE Real-Time Solution
Release	 NICE Interaction Management R4.1 NICE Sentinel: NICE Sentinel Server: R2.1, R2.5, R4.1 NICE Sentinel Remote Client: R2.1, R2.5, R4.1 NICE Real-Time Solution 4.9.x
Synopsis	This section describes the compatibility of Internet Explorer 6 with NICE Web Applications when Internet Explorer 6 is installed on: Windows 2000 Professional Windows Server 2003 Standard Edition Windows Server 2003 Enterprise Edition Windows XP

General Description

General tests were performed using Internet Explorer 6 (IE6) with:

- NICE Universe Web Applications 8.9
- NICE Interaction Management Release 4.1
- NICE Sentinel
 - Release 2.1
 - Release 2.5
 - Release 4.1
 - Release 6.3

The following table describes the compatibility between all supported Operating Systems and NICE Applications.

Table 5-1:

Operating System

Operating System	Web Apps 8.9	NP R1	NP R2	IPC 9.09	NP R3	NP R3.1	NP R3.2	NP R3.5	NIM 4.1
Windows Server 2003 R2 Standard/ Enterprise	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ
Windows XP	Р	Р	Ρ	Ρ	Ρ	Р	Ρ	Ρ	Ρ
Windows 2000 Professional	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ			

Internet Explorer 7

Compatibility of NICE Web Applications with Internet Explorer 7

Product	NiceUniverse Web Application, NICE Sentinel, NICE Real-Time Solution
Release	 NICE Interaction Management R4.1 NICE Sentinel: NICE Sentinel Server: R2.1, R2.5, R4.1, R6.X NICE Sentinel Remote Client: R2.1, R2.5, R4.1 NICE Real-Time Solution 4.9.x
Synopsis	This section describes the compatibility of Internet Explorer 7 with NICE Web Applications when Internet Explorer 7 is installed on: Windows Vista Business Windows Vista Enterprise Windows Server 2008 Standard/Enterprise Edition Windows Server 2003 Standard Edition Windows Server 2003 Enterprise Edition Windows XP

General Description

General tests were performed using Internet Explorer 7 (IE7) with:

- NICE Interaction Management Release 4.1
- NICE Sentinel
 - Release 2.1
 - Release 2.5
 - Release 4.1
 - Release 6.X

The following table describes the compatibility between all supported Operating Systems and NICE Applications.

After installing Internet Explorer 7, the internet settings must be changed on all Operating Systems. See Changing Internet Explorer 7 Settings After Installation on page 136

Table 5-2: Operating Systems

Operating System	IPC 9.09	NP R3.2	NP R3.5	NIM 4.1	NICE Sentinel	NICE Sentinel
					R2.1/2.5	R4.1
Windows Vista Business						
Windows Vista Enterprise		Ρ	Ρ	Ρ		
Windows Server 2008 Standard/Enterprise		Ρ	Ρ	Ρ	Ρ	Ρ
Windows Server 2003 R2 Standard/ Enterprise	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ
Windows XP	Ρ	Р	Р	Ρ		

Known Issues

The following section describes known issues when using Internet Explorer 7.

Table 5-3: Known Issues

l s u e	Description	Re	e e
	NICE Perform Web applications should not be used in Internet Explorer 7 tab or Quick ab modes. They must be operated in a Single tab usage. Note: In Release 3.1 and above, you <i>can</i> use NICE Perform Web applications in tab and Quick tab mode, however, you <i>cannot</i> open more than one session of NICE Perform at the same time.		N I C E P e r f o r m R I C E P e r f o r m R I C E R

Known Issues

l s u e	Description	Re as	e
		-	2
		-	N
			C E
			Р
			e r f
			1 0 r
			m
			R
			3
		-	R
			e a
			s e
			I P
			С
			9

Known Issues

l s u e	Description	Re as	e
		-	0 9
		-	U n v e r s e
			W e b
			A p I
			i c a t i
			n s
			V e r

l s u e	Description	Re	le e
		-	s i o n
			8 9

l s u e	Description	Re ase	le e
	In the NICE Perform Applications, different windows appear in minimized mode. The affected windows are as follows: <i>For Release 1</i> : Opening Coaching Package window. Playing Screen Interaction Coaching - Creating, opening and deleting. Creating clips. Clicking Evaluate. <i>For Releases 2 and 3</i> Coaching window appears normally. After the form is filled, click the Send button, the coaching closes to minimized mode. Saving interactions. Note: This issue occurs when only .NET 1.1 and .NET 1.1 SP1 are installed on the client workstation. Sending interactions by E-mail. Note: This issue occurs when only .NET 1.1 and .NET 1.1 SP1 are installed on the client workstation. Sending interactions by E-mail. Note: This issue occurs when only .NET 1.1 and .NET 1.1 SP1 are installed on the client workstation. The following graphic shows how some of these windows can be opened.		NICE Perform R1 NICE Perform
			R 2

Known Issues





l s u e	Description	Rele ase
		 R e a s e I P C 9 . 0 9
	A pop-up block appears when you want to view a report. You must remove it so that you can view the report. Note: This issue occurs when only .NET 1.1 and .NET 1.1 SP1 are installed on the client workstation.	NIC E Perf orm R 1
	Triggers for the ScreenSense Agent, which were defined on an HTML page with Internet Explorer 6, do not work with Internet Explorer 7 and vice versa.	NIC E Perf orm R 2 NIC E Perf orm R 3

Changing Internet Explorer 7 Settings After Installation

When Internet Explorer 7 is installed, the following issues are created:

- Internet Explorer 7 resets the cache to 10 MB. It is important to resize the cache size to 200 MB when working with NICE Perform Applications. See Changing the Cache Size below.
- The font is Clear Type, which appears blurred, and you may want to return to the Black and White font. See Changing the Font Used by Internet Explorer 7 on the facing page.
- The application server is **not automatically added to the trusted site list**, and it is important to **do so manually.** See Internet Explorer 8 on page 145.

Changing the Cache Size

Perform the following procedure to modify the cache size.

➡ To modify the cache size:

- 1. Open Internet Explorer.
- 2. Click Tools, and select Internet Options.
- 3. In the **General** tab, under **Browsing History**, click **Settings**. The **Temporary Internet Files and History Settings** window appears.

	iles	
Internet Explorer st for faster viewing la	ores copies of webpage ter.	es, images, and media
Check for newer ve	sions of stored pages:	
C Every time I	visit the webpage	
C Every time I ;	start Internet Explorer	
Automatically	}	
C <u>N</u> ever		
Disk space to use (8 (Recommended: 9 Current location: C:\Documents and S Internet Files\	- 1024MB): 50 - 250MB) ettings\uzib\Local Setti	200 ÷
Move folder	View <u>o</u> bjects	<u>V</u> iew files
History		
Specify how many o	lays Internet Explorer : /e visited.	should save the list
or websites you nav		00 1

Figure 5-1: Temporary Internet Files and History Settings Window

4. By default, **Check for newer versions of stored pages** is set to **Every time I visit the webpage**. Set it to **Automatically**, and set the **Disk space to use** to **200**. Click **OK** to confirm the changes.

Changing the Font Used by Internet Explorer 7

The following graphic illustrates the difference between the **Clear Type** font and the **Black and White** font:





If you are not satisfied with the **Clear Type** font, perform the following procedure to change it to **Black** and White.

- To modify the font:
- 1. Open Internet Explorer.

Figure 5-3: Internet Explorer Window

cy Management t: hardening.com	hardening. Linked Group	Policy Object	Group Policy Inhesta	nce Delega	tion			
Chanceleration Constant Palacy Constant Palacy Constant Palacy Constant Palacy Constant Computers Constant Constant Computers Constant Constant Computers Constant Computer Computers Constant Computer Computers Constant Computer Computers C		<u>0x4w - 1</u>	seo Si Danak Damar Pak	<u>Erinxed</u>	Link Enabled Yes	GPO Status Enabled	Unit Faunt	Modiled Dunan 12/27 hade

2. Click **Tools**, select **Internet Option**, and click **Advanced**. The following window appears.

Figure 5-4: Internet Options - Advanced Tab

General	Security	Privacy	Content	Connections	Programs	Advanced
Setting	s					
الله م ا	Jii co Multimedia Alway Enable Play a Play a Play s Show Show Show Show Show Printing Print t Search fro Do no Just d	repriet for a suse Clex e automat nimations ounds in v image dou pictures image dat backgroun om the Ad t search fi lisplay the	virtual mai arType for ic image re in webpages wiload plac hering d colors an dress bar rom the Ad results in I	nme enabled (HTML* sizing es* ceholders dimages dress bar the main windo	w	tart)
*Tal	kes effect .	after vou	restart Int	ernet Explorer		
10	and an over	2.101 700	Contart and	Bestore	advanced s	settings
Reset I	internet Ex	plorer set	tings			
Delel add-	tes all temp ons, and re	oorary file esets all th	s, disables ne changed	browser i settings.	Res	et
	chould only	use this i	f your bros	wser is in an un	usable state	b.

- 3. Clear Always use Clear Type for HTML, and click OK to confirm.
- 4. Restart Internet Explorer and Microsoft Outlook.

See the http://blogs.msdn.com/ie/archive/2006/02/03/524367.aspx link for further information.

Manually Adding NICE Perform Applications to the Trusted Site List

Perform the following procedure to manually add the application server to the trusted site list.

NICE Perform Release 3.1 supports Internet Explorer 7 in both the **Quick** tab and **Single** tab modes.

→ To enable login to NICE Perform in an IE7 environment:

1. On the Domain Controller do the following: In the Run window, type **gpmc.msc** and click **OK**. The Group Policy Management window appears.

Figure 5-5: Group Policy Management Window

cy Management hearder	Aurdening.com							
:: herdening.com Linker	Linked Group Policy Oberts Group Policy Inheitence Delegation							
A portace lefter	Tag Date -	i ⊈PO ∦ ² Defait Donae Paky	Enloyed Na	Line English	(PO Shau Evalue)	uha Fau	Holled 12/07	Dunan hade

2. Right-click the GPO you created when you created the User Account Control and click Edit.

NOTE: Complete instructions for setting up the User Account Control can be found in NICE Perform Release 3.1: Microsoft Windows Vista Enterprise SP1 Workstation Configuration Guide, "Setting up the User Account Control in an Active Directory".

3. Select Computer Configuration > Administrator Templates > Windows Components > Internet Explorer > Internet Control Panel > Security Pages.

The Group Policy Object Editor window appears.

Figure 5-6: Group Policy Object Editor Window



4. Double-click the Site to Zone Assignment List policy.

The Site to Zone Assignment List Properties window appears.

Figure 5-7: Site to Zone Assignment List Properties V	Vindow
---	--------

Site to Zone Assignment List Properties
Setting Explain
🚰 Site to Zone Assignment List
Not Configured
 Enabled Disabled
Enter the zone assignments here. Show
Supported on: At least Internet Explorer 6.0 in Windows XP Service P Previous Setting Next Setting
OK Cancel Apply

5. Select **Enabled** and click **Show**.

The Show Contents window appears.



how Contents		
Enter the zone assignments her	е.	ОК
Value Name	Value	Cancel
		Add
		Remove

6. Click Add.

The Add Item window appears.

Figure 5-9: Add Item Window

Add Item	×
Enter the name of the item to be added:	ОК
	Cancel
Enter the value of the item to be added:	

- 7. In the Enter the name of the item to be added field, enter the name of the Web Application Site.
- 8. Enter the digit **2** in the **Enter the value of the item to be added** field and click **OK**.

The Show Contents window reappears.

9. Click OK.

The Site to Zone Assignment List Properties window reappears.

10. Click **OK**.

The Group Policy Object Editor Window reappears.

11. Close the Group Policy Object Editor Window.
Internet Explorer 8

Compatibility of NICE Web Applications with Internet Explorer 8 32-bit

rioduct	NICE Engage Platform, NICE Interaction Management, NICE Perform, NiceUniverse Web Application, NICE Sentinel, NICE Real-Time Solution
Release	 NICE Interaction Management R4.1 NICE Engage Platform R6.x NOTE: NICE Engage Platform 6.x environments with Engage Search, require Internet Explorer 10 or above. NICE Perform: R3 SP3/SP4, R3.1, R3.2, R3.5 NICE Sentinel: NICE Sentinel Server: R2.1, R2.5, R4.1 NICE Sentinel Remote Client: R2.1, R2.5, R4.1 NICE Real-Time Solution 4.9.x
Synopsis	This section describes the compatibility of Internet Explorer 8 with NICE Web Applications when Internet Explorer 8 is installed on: Windows XP SP3 Windows Vista Enterprise SP1 Windows 7 Professional SP1 32/64-bit Windows 7 Enterprise SP1 32/64-bit Windows 7 Ultimate SP1 32/64-bit Windows Server 2003 R2 Standard Edition 32bits Windows Server 2003 R2 Enterprise Edition 32bits Windows Server 2008 Standard Edition 32bits Windows Server 2008 Standard Edition 64bits Windows Server 2008 Enterprise Edition 32bits Windows Server 2008 Enterprise Edition 64bits Windows Server 2008 Enterprise Edition 64bits

General Description and Conclusions

General tests were performed using Internet Explorer 8 (IE8) with:

NICE Perform

- Release 3.1
- Release 3.2
- Release 3.5
- NICE Interaction Management Release 4.1
- NICE Engage Platform 6.x
- NICE Sentinel
 - Release 2.1
 - Release 2.5
 - Release 4.1
 - Release 6.X

Conclusions

The NICE Engage Platform/NICE Interaction Management/NICE Perform Applications Suite and NiceUniverse Web Application 8.9 are compatible with all tested operating systems with the following limitation: You should only run one NICE Interaction Management/NICE Perform Applications Suite or NiceUniverse Web Application per browser. See NICE Web Applications Known Issues with Internet Explorer 8 below.

NICE Web Applications Known Issues with Internet Explorer 8

The following section describes NICE Perform Release 3.5/NICE Interaction Management/NICE Engage Platform known issues when using Internet Explorer 8, grouped according to application.

NICE Web Applications

lssue 1

The NICE Web application URL must be added to the Trusted Site list. See Manually Adding NICE Web Applications to the Trusted Site List on the facing page.

lssue 2

NICE Web applications can be used in **Internet Explorer 8** tab or **Quick** tab modes. However, in these modes, you can run one tab only with the NICE Interaction Management/NICE Perform Applications suite.

lssue 3

When the NICE Application Server is identified as an **Internet** site, the following message may appear:

NICE Perform® Applications Suite requires Microsoft .NET framework version 3.5 or higher Installed on this computer.
Install the proper version and restart the Web browser.

See Adding the NICE Web Applications URL to the Local Intranet Site List on page 152.

lssue 4

To correctly display the NICE Web Application, the default documentation mode in Internet Explorer 8 should be Quirks mode. If a different mode is used, the application screen appears.

NICE Perform Applications - Release 3 SP3/SP4 and Release 3.1

lssue 1

The NICE Perform Web applications URL must be added to the Trusted Site list. See Manually Adding NICE Web Applications to the Trusted Site List below.

lssue 2

NICE Perform Web applications can be used in **Internet Explorer 8** tab or **Quick** tab modes. However, in these modes, you can run one tab only with the NICE Perform Applications suite.

NICE Universe 8.9 Web Application

lssue 1

You must configure IE8 to work with the *Protected mode* set to off. See Configuring Internet Explorer 8/9 to Disable Protected Mode on page 151.

lssue 2

NiceUniverse 8.9 Web Applications can be used in **Internet Explorer 8** tab or **Quick** tab modes. However, in these modes, you can run one tab only with NiceUniverse 8.9 Web Application suite.

NOTE: There is no limitation on the number of open tabs per browser when only one tab is running the NICE Perform Applications suite or NiceUniverse Web Application.

Manually Adding NICE Web Applications to the Trusted Site List

Perform the following procedure to manually add the Applications server to the trusted site list.

NICE Perform Release 3.x and NICE Interaction Management Release 4.1 support Internet Explorer 8/9 in both the **Quick** tab and **Single** tab modes.



1. On the Domain Controller do the following: In the **Run** window, type **gpmc.msc** and click **OK**. The Group Policy Management window appears.

Figure 5-10: Group Policy Management Window

4	up Policy	, irinet	ance	Delega	tion [
	ind Don	vær Pol	En No	haves -	Lien Ernsbler Ven	Ended	Surf Fate	Redied 12/07	<u>Dunai</u>

2. Right-click the GPO you created when you created the User Account Control and click Edit.

NOTE: Complete instructions for setting up the User Account Control can be found in the Microsoft Windows Vista Enterprise SP1 Workstation Configuration Guide, in the section: Setting up the User Account Control in an Active Directory.

3. Select Computer Configuration > Administrator Templates > Windows Components > Internet Explorer > Internet Control Panel > Security Pages.

The Group Policy Object Editor window appears.

and the second s	Window Male		
Ple Action View Payorites	Window Help		
🗢 🔿 🖄 📰 🗟 📓			
Event Viewer	Security Page		
Game Explorer	Security rage		
Import Video	Site to Zone Assignment List	Setting	State
Internet Explorer	Site to zone Assignment List	Internet Zone	
Accelerators	Display Properties	Intranet Zone	
E Application Compatibility		Local Machine Zone	
Compatibility View	Requirements:	I orked Down Internet Zone	
Corporate Settings	At least internet Explorer 6.0 in Windows XP Service Back 2 or	Inded Down Intranet Zone	
Delete Browsing History	Windows Server 2003 Service Pack 1	Locked-Down Local Markine Tone	
in Private		Locked Down Destricted Chec Zone	
Internet Control Panel	Description: This policy setting allows you to	Locked Down Tourted Ster Zone	
Advanced Page	manage a list of sites that you want	Bachisted Sher Zone	
Security Page	to associate with a particular security	Kestnood Stes Zone	
Internet Settings	zone. These zone numbers have	Trusted sites Zone	Not well and
E Security Features	apply to all of the steps in the some	E: unmaner, ortes: Include al local (intranet) sites not listed in other 2 10 Locked Device Televisity Tensor Terrentity.	Not configured
Add-on Management	supply to all of the ables in the an B.	Looked-Down Internet Zone Template	Not configured
AJAX Signay Bahaying Capital	Internet Explorer has 4 security	El unternet zone Template	Not configured
Consistent Mine Handle	zones, numbered 1-4, and these are	Looxed-Down Intranet Zone Template	Not configured
Information Bar	associate sites to zones. They are:	E Intranet Zone Template	Not configured
Local Machine Zone Loca	(1) Intranet zone, (2) Trusted Sites	E Looxed-Down Local Machine Zone Template	Not configured
Mine Soffing Safety Fe	zone, (3) Internet zone, and (4)	E Local Machine Zone Template	Not configured
MK Protocol Security Re	Restricted Sites zone. Security settings can be set for each of these	1 Locked-Down Restricted Sites Zone Template	Not configured
🗉 🧧 Network Protocol Lockd:	zones through other policy settings,	1 Restricted Sites Zone Template	Not configured
Cobject Caching Protection	and their default settings are:	E Locked-Down Trusted Sites Zone Template	Not configured
Protection From Zone El	Trusted Sites zone (Low template),	E Trusted Sites Zone Template	Not configured
Restrict Active/ Install	template). Internet zone (Medium	E Turn on Warn about Certificate Address Mismatch	Not configured
Restrict File Download	template), and Restricted Sites zone	Intranet Sites: Include all sites that bypass the proxy server	Not configured
Scripted Window Securit	(High template). (The Local Machine	iii Intranet Sites: Include all network paths (UNCs)	Not configured
Colbars Colbars	zone and its locked down equivalent	🗄 Site to Zone Assignment List	Not configured
Internet Information Services	protect your local computer.)	Turn on automatic detection of the intranet	Not configured
NetMeeting		E Turn on Information bar notification for intranet content	Not configured
Network Access Protection	If you enable this policy setting, you		
Network Projector	related zone numbers. The		
Online Assistance	association of a site with a zone will		
Parental Controls	ensure that the security settings for		
Password Synchronization	the specified zone are applied to the		
Presentation Settings	the list, enter the following		
RSS Feeds	information:		
Search Carbo	Webserson Albert Construction		
Security Center	site, or a fully qualified domain name		
Shutdown Ontions	for other sites. The valuename may		
Smart Card	also include a specific protocol. For	-	
Sound Recorder	example, if you enter		
Tablet PC	valuename, other protocols are not		
Task Schechier	affected. If you enter just		
Terminal Services	www.contoso.com, then all		
Windows Calendar	including http://https.ftp. and so op-		
Windows Color System	The site may also be expressed as an		
Windows Customer Experience	IP address (e.g., 127.0.0.1) or range		
Windows Defender	(e.g., 127.0.0.1-10). To avoid		
Windows Error Reporting	include additional characters after the		
Windows Explorer	domain such as trailing slashes or URL		
📔 Windows Installer 🚽	path. For example, policy settings for	-	
	Estanded (Standard /		
	/ Ewalload V staugald \		

4. Double-click the Site to Zone Assignment List policy.

The Site to Zone Assignment List Properties window appears.

Site to Zone Assignment List Properties
Setting Explain
🚟 Site to Zone Assignment List
Not Configured
Inabled
Disabled
Enter the zone assignments here.
Supported on: At least Internet Explorer 6.0 in Windows XP Service P Previous Setting Next Setting
OK Cancel Apply

5. Select **Enabled** and click **Show**.

The Show Contents window appears.



ter the zone assignments her	ə.	OK
/alue Name	Value	Cancel
		Add
		Remove

6. Click Add.

The Add Item window appears.

Figure 5-14: Add Item Window

Add Item	
Enter the name of the item to be added:	ОК
	Cancel
Enter the value of the item to be added:	

- 7. In the Enter the name of the item to be added field, enter the name of the Web Application Site.
- 8. In the Enter the value of the item to be added field, enter the digit 2 and click OK.

The Show Contents window reappears.

9. Click OK.

The Site to Zone Assignment List Properties window reappears.

10. Click **OK**.

The Group Policy Object Editor Window reappears.

11. Close the Group Policy Object Editor Window.

Configuring Internet Explorer 8/9 to Disable Protected Mode

Perform the following procedure to configure Internet Explorer 8/9 to disable Protected Mode.



- Run Internet Explorer 8/9. When working with Windows Server 2008 or Windows Vista, right-click the Internet Explorer icon and select Run as Admin.
- 2. On the Menu Bar, select Tools, and then Internet Options.

The Internet Options windows appears:

Figure 5-15: Internet Options Window

Internet C	Iptions ? X		
General	Security Privacy Content Connections Programs Advanced		
Select a	zone to view or change security settings.		
) 🔍 🗸 🚱 📗		
Inte	ernet Local intranet Trusted sites Restricted		
	sites		
	Trusted sites		
	This zone contains websites that you		
	trust not to damage your computer or your files.		
	You have websites in this zone.		
Secur	ity level for this zone		
Allo	wed levels for this zone: All		
- 1	- Medium		
	- Prompts before downloading potentially unsafe		
content			
Τ	2 Orisigned Actives concrois will not be downloaded		
- 1	-		
	Enable Protected Mode (requires restarting Internet Explorer)		
	Custom level Default level		
	Reset all zones to default level		
	OK Cancel <u>Apply</u>		

- 3. Click the **Security** tab. In the Security level for this zone area, make sure that **Enable Protected Mode** is not selected.
- 4. Click OK.

Adding the NICE Web Applications URL to the Local Intranet Site List

- + To add the NICE Perform Web application URL to the Local Intranet Site list:
- 1. In the **Tools** menu of the Internet Explorer, select **Internet Options**.
- 2. Click the **Security** tab.

Figure 5-16: Internet Options - Security Tab



- 3. Click Local Internet.
- 4. Click Sites.

The Local Intranet window appears.

Figure 5-17: Local Intranet Window



- 5. Enter the NICE Web applications URL in the Add this website to the zone field.
- 6. Click Add.
- 7. Click Close.
- 8. Click OK.

Internet Explorer 9

Compatibility of NICE Web Applications with Internet Explorer 9 32-bit

Product	NICE Engage Platform, NICE Interaction Management, NICE Sentinel, NICE Real-Time Solution
Release	 NICE Interaction Management R4.1 NICE Engage Platform R6.x NOTE: NICE Engage Platform 6.x environments with Engage Search, require Internet Explorer 10 or above. NICE Sentinel: NICE Sentinel Server: R2.1, R2.5, R4.1, R6.X NICE Sentinel Remote Client: R4.1, R6.X. NOTE: Internet Explorer works with Sentinel Remote Client only when using compatibility mode (Compatibility mode is the Microsoft Internet Explorer default mode). For more information, see the Sentinel Installation and Configuration Guide. Real-Time Solution 4.9.x
Synopsis	This section describes the compatibility of Internet Explorer 9 with NICE Web Applications when Internet Explorer 9 is installed on: Windows Vista Enterprise SP2 Windows 7 Professional SP1 32/64-bit Windows 7 Enterprise SP1 32/64-bit Windows 7 Ultimate SP1 32/64-bit Windows Server 2008 Standard Edition 32-bit Windows Server 2008 Standard Edition 64-bit Windows Server 2008 Enterprise Edition 32-bit Windows Server 2008 Enterprise Edition 64-bit Windows Server 2008 R2 Standard Edition 64-bit Windows Server 2008 R2 Enterprise Edition 64-bit

General Description and Conclusions

General tests were performed using Internet Explorer 9 (IE9) with:

NICE Interaction Management Release 4.1

- NICE Engage Platform 6.x
- NICE Sentinel
 - Release 2.1
 - Release 2.5
 - Release 4.1
 - Release 6.X

Conclusions

The NICE Engage Platform/NICE Interaction Management Applications Suites are compatible with all tested operating systems with the following limitation:

You should only run one NICE Engage Platform/NICE Interaction Management Applications Suite per browser.

See NICE Web Applications Known Issues with Internet Explorer 9 below.

NICE Web Applications Known Issues with Internet Explorer 9

The following section describes known issues when using Internet Explorer 9:

lssue 1

The NICE Engage Platform/NICE Interaction Management Web application URL must be added to the Trusted Site list. See Manually Adding NICE Web Applications to the Trusted Site List on page 147.

lssue 2

NICE Engage Platform/NICE Interaction Management Web applications can be used in Internet Explorer 9 tab or Quick tab modes. However, in these modes, you can run one tab only with the NICE Engage Platform/NICE Interaction Management Applications suite.

lssue 3

When the NICE Application Server is identified as an Internet site, the following message may appear:

NICE Perform® Applications Suite requires Microsoft .NET framework version 3.5 or higher Installed on this computer.

Install the proper version and restart the Web browser. See Adding the NICE Web Applications URL to the Local Intranet Site List on page 152.

lssue 4

You must configure IE9 to work with the Protected mode set to off. See Configuring Internet Explorer 8/9 to Disable Protected Mode on page 151.

lssue 5

To correctly display the NICE Engage Platform/NICE Interaction Management Application, the default documentation mode in Internet Explorer 8 should be Quirks mode. If a different mode is used, the application screen appears.

Internet Explorer 10

Compatibility of NICE Web Applications with Internet Explorer 10 32-bit

Product	NICE Engage Platform, NICE Interaction Management, NICE Sentinel, NICE Real-Time Solutions, Engage Search
Release	 NICE Interaction Management 4.1 NICE Engage Platform 6.3 and above NICE Sentinel: NICE Sentinel Server: R2.1, R2.5, R4.1, R6.X NICE Sentinel Remote Client: R4.1, R6.X. NOTE: Internet Explorer works with Sentinel Remote Client only when using compatibility mode (Compatibility mode is the Microsoft Internet Explorer default mode). For more information, see the Sentinel Installation and Configuration Guide. NICE Real-Time Solution 4.9.6
Synopsis	Windows 7 Professional SP1 32/64-bit Windows 7 Enterprise SP1 32/64-bit Windows 7 Ultimate SP1 32/64-bit Windows Server 2008 R2 SP1 Standard Edition 64-bit Windows Server 2008 R2 SP1 Enterprise Edition 64-bit

General Description and Conclusions

General tests were performed using Internet Explorer 10 (IE10) with NICE Engage Platform 6.x and NICE Interaction Management Release 4.1.

Conclusions

The NICE Engage Platform/NICE Interaction Management Applications Suites are compatible with all tested operating systems with the following limitations:

• You should only run one NICE Web Applications Suite per browser.

See NICE Web Applications Known Issues with Internet Explorer 10 on the next page.

NICE Web Applications Known Issues with Internet Explorer 10

The following section describes known issues when using Internet Explorer 10:

When the NICE Application Server is identified as an **Internet** site, the following message may appear:

NICE Perform Applications Suite requires Microsoft.NET framework version 3.5 or higher Installed on this computer. Install the proper version and restart the Web browser.

NICE Perform® Applications Suite requires Microsoft .NET framework version 3.5 or higher Installed on this computer.

Install the proper version and restart the Web browser.

See Adding the NICE Web Applications URL to the Local Intranet Site List on page 152.

Adding the NICE Web Application URL to the Compatibility View Settings List

To ensure that NICE Interaction Management works properly when using Microsoft Internet Explorer 10, you should make sure to add the URL from the application server to the Windows Compatibility View settings.

Starting from NICE Engage Platform 6.x, Web Applications do not require working in the Compatibility mode.

+ To add the NICE Web Application URL to the Compatibility List:

1. In the **Tools** menu of Internet Explorer, click **Compatibility View Settings**. The Compatibility View Settings dialog box is displayed.

Adding the NICE Web Application URL to the Compatibility View Settings List

Compatibility View Settings	
You can add and remove websites to be display Compatibility View.	ved in
Add this website:	
	Add
Websites you've added to Compatibility View:	
dh-app-m-acg nice.com pt.local	Remove
Display all websites in Compatibility View	
Display intranet sites in Compatibility View	
Download updated compatibility lists from Microsoft	
Learn more by reading the Internet Explorer privacy	<u>statement</u>
	Close

- 2. Type the Application Server URL for the instance of NICE Engage Platform/NICE Interaction Management that you are using. For example, **dh-app-m-acg**.
- 3. Click Add.

Internet Explorer 11

Compatibility of NICE Web Applications with Internet Explorer 11 32, 64-bit

Product	NICE Engage Platform, NICE Interaction Management, NICE Sentinel, NICE Real-Time Solutions, Engage Search
Release	 NICE Interaction Management R4.1 NICE Engage Platform R6.3 and above NICE Sentinel: NICE Sentinel Server: R2.1, R2.5, R4.1, R6.3 NICE Sentinel Remote Client: R4.1, R6.X. NOTE: Internet Explorer works with Sentinel Remote Client only when using compatibility mode (Compatibility mode is the Microsoft Internet Explorer default mode). For more information, see the Sentinel Installation and Configuration Guide. NICE Real-Time Solutions 4.9.6
Synopsis	 Windows 8.1 Professional 32/64-bit Windows 8.1 Enterprise 32/64-bit Windows 7 Professional SP1 32/64-bit Windows 7 Enterprise SP1 32/64-bit Windows 7 Ultimate SP1 32/64-bit Windows Server 2008 R2 SP1 Standard Edition 64-bit Windows Server 2012 R2 Standard 64-bit Windows Server 2012 R2 Datacenter 64-bit

Prerequisite Updates for Internet Explorer 11

During the installation of Internet Explorer 11 for Windows 7 SP1 or Windows Server 2008 R2 SP1, prerequisite components are installed as well. If the prerequisite components cannot be installed, the installation stops. In this case, install the following prerequisite updates manually:

- KB2729094
- KB2731771
- KB2533623

- KB2670838
- KB2786081
- KB2834140

General Description and Conclusions

General tests were performed using Internet Explorer 11 (IE11) with NICE Interaction Management Release 4.1 and NICE Engage Platform 6.x.

Conclusions

The NICE Engage Platform/NICE Interaction Management is compatible with all tested operating systems with the following limitations:

- Run only one NICE Engage Platform/NICE Interaction Management Applications Suite per browser.
- Use XBAP with the Windows 8.1 and Windows 7 client systems only.
- For Internet Explorer 11 on Windows 8.1 and Windows 7, you must have NICE Engage Platform/NICE Interaction Management Release 4.1.46 or above.

See NICE Web Applications Known Issues with Internet Explorer 11 below.

NICE Web Applications Known Issues with Internet Explorer 11

The following section describes known issues when using Internet Explorer 11:

When the NICE Application Server is identified as an **Internet** site, the following message may appear:

NICE Applications Suite requires Microsoft.NET framework version 3.5 or higher Installed on this computer. Install the proper version and restart the Web browser.

NICE Perform® Applications Suite requires Microsoft .NET framework version 3.5 or higher Installed on this computer.

Install the proper version and restart the Web browser.

See Adding the NICE Web Application URL to the Compatibility View Settings List on the next page

Adding the NICE Web Application URL to the Compatibility View Settings List

NOTE: Relevant for NICE Interaction Management only.

To ensure that NICE Interaction Management works properly when using Microsoft Internet Explorer 11, you should make sure to add the URL from the application server to the Windows Compatibility View settings.

Starting from NICE Engage Platform 6.x, Web Applications do not require working in the Compatibility mode.

- To add the NICE Application URL to the Compatibility List:
- 1. In the Tools menu, click **Compatibility View Settings**. The Compatibility View Settings dialog box is displayed.

Adding the NICE Web Application URL to the Compatibility View Settings List

Compatibility View Settings	
You can add and remove websites to be display Compatibility View.	ved in
Add this website:	
	Add
Websites you've added to Compatibility View:	
dh-app-m-acg nice.com pt.local	Remove
Display all websites in Compatibility View	
Display intranet sites in Compatibility View	
Download updated compatibility lists from Microsoft	
Learn more by reading the Internet Explorer privacy statement	
	Close

2. In the Add this website field, enter the Application Server URL for the instance of NICE Engage Platform/NICE Interaction Management that you are using. For example, **dh-app-m-acg**.

3. Click Add.

[This page intentionally left blank]

Google Chrome with the IE Tab Extension

This section describes compatibility of the Google Chrome browser with the IE Tab Extension with NICE Web Applications.

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Adding the IE Tab to Google Chrome	169

Compatibility of NICE Web Applications with the IE Tab Extension in Google Chrome 32/64-bit

Product	NICE Engage Platform, NICE Sentinel, NICE Real-Time Solutions, Engage Search
Release	 NICE Engage Platform 6.5 NICE Sentinel: NICE Sentinel Server 6.5 NICE Sentinel Remote Client 6.5.
Synopsis	Windows 10 Pro 32/64-bit Windows 10 Enterprise 32/64-bit Windows 8.1 Professional 32/64-bit Windows 8.1 Enterprise 32/64-bit Windows 7 Professional SP1 32/64-bit Windows 7 Enterprise SP1 32/64-bit Windows 7 Ultimate SP1 32/64-bit Windows Server 2012 R2 Standard 64-bit Windows Server 2012 R2 Datacenter 64-bit
IE-Tab extension inGoogle Chrome	IE-Tab 9.5 Google Chrome 49

General Description and Conclusions

General tests were performed using the IE Tab extension in Google Chrome with Engage Platform 6.5.

Conclusions

The NICE Engage Platform is compatible with all tested operating systems with the following limitations:

- You should run only one NICE Engage Platform Applications Suite per browser.
- You should only use the XBAP technology with the Windows 8.1, Windows 10 client systems.

Client Application Compatibility

The following table shows the NICE Engage Platform 6.5 client applications compatible with the IE-Tab extension in Google Chrome.

Application	IE Tab (Version 9.5.2.1) Extension in Google Chrome (Version 49.0.2623.112)
Analytics Apps	Approved
NICE Web Applications	Approved
QM Apps	Approved
RTA	Approved
Engage Search	Approved
Reporter	Approved
NICE Sentinel Remote Client	Approved

NICE Web Applications Known Issues with the IE Tab in Google Chrome

Sentinel Web Client doesn't support Compatibility Mode. However, for IE-Tab it is turned on by default.

- → To disable the Compatibility Mode:
- 1. Right-click the IE Tab button and select **Options**.
- 2. Open the **IE Compatibility Mode** window and select the Internet Explorer version you want Google Chrome to emulate.

NICE Web Applications Known Issues with the IE Tab in Google Chrome



Adding the IE Tab to Google Chrome

The IE Tab is an extension that allows you to emulate Internet Explorer, while working in Google Chrome.

🔶 To add the IE Tab

- 1. Install and start Google Chrome.
- 2. Click the Customize and Control button and select Settings.



3. In the Settings window, open the Extensions tab and click Get more extensions.

Adding the IE Tab to Google Chrome



4. In the **Search** field, type in "IE Tab" and press **Enter**.

chrome web stor	re
IE Tab	×
Apps	
Games	
Extensions	
Themes	

5. In the Search results, find the IE Tab extension and click Add to Chrome.

Extensions		More Extension Results
E Tab	IE Tab offered by ietab.net Display web pages using IE within Chrome. Use Java, Silverlight, ActiveX, Sharepoint, and more. A "Top 10" extension since 2009!	+ ADD TO CHROME Productivity *****

6. In the menu that appears, click Add extension.



After the IE Tab extension is successfully installed, the IE Tab button is added to the Tool bar.



7. Click the **IE Tab** button.

The **ietabhelper.exe** file is automatically dowloaded.

8. Open the **ietabhelper.exe** file and click **Run**.

The IE address bar is added to Google Chrome:



9. Click the Settings button (\gg).

The IE Tab Options and Settings window opens.

Adding the IE Tab to Google Chrome



10. Scroll down to the IE Compatibility Mode area and select IE 11 Standard Edge Mode.

7

Microsoft .NET Framework

This section provides information, support, and solutions for Microsoft .NET Framework.

Contents

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NICE Support for Microsoft .NET Framework

Product	.NET Framework Support
Release	NICE Interaction Management 4.1, NICE Engage Platform 6.x, NICE Sentinel 2.5, 4.1 and 6.x
Synopsis	This section describes support for Microsoft .NET Framework (versions 1.1, 2.0, 3.0, 3.5, 4.0, 4.5.2 and 4.6/4.6.1/4.6.2) by NICE products, from V8.9 system through NICE Interaction Management 4.1, NICE Engage Platform6.x, NICE Sentinel 2.5, 4.1 and 6.x. This section incorporates previous NICE technical support notes for

Overview

This section provides information regarding NICE products support for Microsoft .NET Framework (versions 1.1, 2.0, 3.0, 3.5, 4.0, 4.5.2 and 4.6/4.6.1).

NICE Logger Requirements

The following NICE Logger versions require Microsoft .NET Framework 2.0:

- Logger PCI 9.01 Service Pack 8 and above
- Logger PCI 9.03 Service Pack 3 and above
- Logger 9.06
- Logger VolP 9.12

Microsoft .NET Framework Server-Side Support

The following table lists the NICE release versions and indicates which version supports Microsoft .NET Framework (versions 1.1, 2.0, 3.0, 3.5, 4.0, 4.5.2 and 4.6/4.6.1)

Table 7-1: NICE Release Versions support Microsoft .NET Framework - Server-Side

Release Version	Status
	Approved for all environments, except Playback Organizer version 2.

Release Version	Status
IPC 9.09	.NET 1.1 and .NET 2.0 are approved. If .NET 2.0 is installed on server, run relevant SetSecurity applicable to .NET 2.0.
NICE Interaction Management 4.1	 .NET 2.0 is required. See the warning below. .NET 2.0 Service Pack 1 is approved. .NET 3.0 is approved. .NET 3.5 service Pack 1 is approved. .NET 3.5 Service Pack 1 is approved. .NET 4.0 is approved. .NET 4.5 is approved. .NET 4.5.1/4.5.2 is approved*. .NET 4.6/4.6.1/4.6.2 is approved.
NICE Engage Platform 6.x	 .NET 3.5 Service Pack 1 is required. .NET 4.0 is required. .NET 4.5 is approved*. .NET 4.5.1 is approved*. .NET 4.5.2 is approved*. (Engage 6.4 and below) .NET Framework 4.6./4.6.1/4.6.2 is approved. (Engage 6.5 and above) .NET 4.6./4.6.1/4.6.2 Framework is required.
NICE Sentinel 2.5	.NET 3.5 is required. .NET 3.5 Service Pack 1 is required. .NET 4.0 is required.
NICE Sentinel 4.1	.NET 3.5 is required. .NET 3.5 Service Pack 1 is required. .NET 4.0 is required. .NET 4.5 is approved*

Table 7-1: NICE Release	Versions support Microsc	oft NET Framework -	Server-Side (continued)
Table / T. NICL Nelease	versions support miterosc		· Server-Side (continued)

Release Version	Status
NICE Sentinel 6.x	.NET 3.5 Service Pack 1 is required.
	.NET 4.5 is required.
	.NET 4.5.1/4.5.2 is approved
	.NET 4.6/4.6.1 is approved.

Table 7-1: NICE Release Versions support Microsoft .NET Framework - Server-Side (continued)

Warning:

.NET Framework 2.0 must be installed before installing the Applications Suite. If you started installing the Applications Suite without .NET 2.0 Framework, the Applications Suite installation will fail. To solve this problem, abort the Applications Suite installation, install .NET 2.0 Framework, and then run the Applications Suite installation again.

Microsoft .NET Framework Client-Side Support

The following table lists the NICE release versions and indicates which version supports Microsoft .NET Framework (Versions 1.1, 2.0, 3.0, 3.5, 4.0, 4.5, 4.5.1, 4.5.2 and 4.6/4.6.1).

Table 7-2:

NICE Release Versions support Microsoft .NET Framework - Client-Side

Release Version	Status
NICE Interaction	.NET 2.0 is required.
	.NET 2.0 Service Pack 1 is approved.
Management 4.1	.NET 3.0 is approved.
	.NET 3.0 Service Pack 1 is approved.
	.NET 3.5 is approved.
	.NET 3.5 Service Pack 1 is approved.
	.NET 4.0 is approved.
	.NET 4.5 is approved.
	.NET 4.5.1/4.5.2 is approved*.
	.NET 4.6/4.6.1/4.6.2 is approved.

Release Version	Status
NICE Engage	.NET 3.5 Service Pack 1 is required.
	.NET 4.0 is required.
Platform 6.x	.NET 4.5 is approved*.
	.NET 4.5.1 is approved*.
	.NET 4.5.2 is approved*.
	(Engage 6.4 and below) .NET Framework 4.6./4.6.1/4.6.2 is approved.
	(Engage 6.5 and above) .NET 4.6./4.6.1/4.6.2 Framework is required.
NICE Sentinel 2.5	.NET 2.0 is required.
	.NET 3.5 is required.
	.NET 3.5 Service Pack 1 is approved.
	.NET 4.0 is approved.
NICE Sentinel 4.1	.NET 3.5 is required.
	.NET 3.5 Service Pack 1 is approved.
	.NET 4.0 is approved.
	.NET 4.5 is approved*
NICE Sentinel 6.x	.NET 3.5 Service Pack 1 is required.
	.NET 4.5 is required.
	.NET 4.5.1/4.5.2 is approved.
	.NET 4.6/4.6.1 is approved.

Table 7-2: NICE Release Versions support Microsoft .NET Framework - Client-Side (continued)

Figure 7-1: .NET Framework Developer's Guide

.NET Framework Developer's Guide

.NET Framework 3.5 Architecture

The architecture of the .NET Framework version 3.5 and 3.5 Service Pack 1 (SP1) builds upon the earlier versions of the .NET Framework.

.NET Framework Versions

The following table lists the versions of the .NET Framework that are included in the .NET Framework 3.5 and 3.5 SP1. There is no need to install any of the previous service packs if you installed the .NET Framework 3.5 or 3.5 SP1 because they are already included.

.NET Framework version	Features and notes
.NET Framework 3.5 SP1	Updates several assemblies that were included in the .NET Framework 3.5. The updates include non-breaking changes, new API elements, and additional functionality for the technologies that were included in the .NET Framework 3.5. The following technologies are included in the .NET Framework 3.5 SP1:
	 ASP.NET Dynamic Data.
	 ADO.NET Enbity Framework.
	 Data provider support for SQL Server 2008.
	 Support for the JNET Framework Client Profile, a setup package that includes only assemblies used by client applications.
	For a complete list of features, see What's New in the .NET Fremework Version 3.5 and What's New in the .NET Fremework Version 3.5 SP1.
.NET Framework 2.0 SP2 and 3.0 SP2	These service packs are available only by installing the .NET Framework 3.5 SP1. They provide additional functionality for future infrastructure. They are not available as a separate install.
	Correction: Previously, this topic incorrectly stated that they were available as separate downloads.

Microsoft .NET Framework 4.0 Requirements

NOTE: Only relevant for NICE Interaction Management 4.1/NICE Engage Platform 6.x and NICE Sentinel 2.5/NICE Sentinel 4.1.

Microsoft .NET Framework 4.0 is now required for all NICE Interaction Management 4.1 /NICE Engage Platform 6.x sites and NICE Sentinel 2.5/Sentinel 4.1. See the *Certified Servers Guide* for more details about requirements.

SRT release 2.5.6 and later will check for Microsoft .NET Framework 4. SRT releases before 2.5.6 will not fail if Microsoft .NET Framework 4 is installed, but also will **not** notify if Microsoft .NET Framework 4 is not installed. Therefore, you must manually check whether Microsoft .NET Framework 4 is installed by looking at the components in the Add/Remove Programs window.

If IIS is installed after Microsoft .NET Framework 4, change the Application Pool to .NET2 as described below.

→ To change the Application Pool to .NET2:

- 1. Select **Start > Run**. The Run window appears.
- 2. Enter **inetmgr** and then click **OK**.

The Internet Information Services (IIS) Manager window appears.

Figure 7-2: Internet Information Services (IIS) Manager Window



- 3. In the **Connections** pane on the left side, click **Application Pools**.
- 4. In the **Application Pools** list, double-click **DefaultAppPool**. The Edit Application Pool window appears.

VET Framework version:	
NET Framework v2.0.50727	
NET Framework v4.0.30319	
NET Framework v2.0.50727	
lo Managed Code	

Figure 7-3: Edit Application Pool Window

- 5. From the .NET Framework dropdown menu, select .NET Framework v2.0.50727.
- 6. Click OK.
- 7. In the Actions pane on the right side, click Recycle.
Microsoft .NET Framework 4.0 and up with NICE Interaction Management 4.1.46 and Above

NOTE: Relevant for NICE Interaction Management 4.1.46 and NICE Engage Platform 6.x.

If your client machine has the Microsoft .NET Framework version 4.0 and up, when you sign in to NICE Interaction Management/NICE Engage Platform, you will notice that the extension is .XBAP. You must note the following when working with an XBAP page.

- Internet Explorer 10 works with XBAP only when using compatibility mode (Compatibility mode is the Microsoft Internet Explorer default mode). For information on using NICE Interaction Management/NICE Engage Platform in compatibility mode, see Adding the NICE Web Application URL to the Compatibility View Settings List on page 158.
- If you changed your system configuration to work with .NET Version 4.5/4.5.1/4.5.2 when using Release 4.1.45, you can revert back to the original system configuration if you install NICE Interaction Management 4.1.46 or later/NICE Engage Platform.
- When using XBAP, the **Tool** menu disappears from the Internet Explorer tool bar. To view the tool menu, you can do one of the following:
 - Open a new tab. The **Tools** menu will be available in the new tab.
 - Click the Internet Options button in Internet Explorer and use the Internet Options window. If this button does not appear, right-click in the Button bar and add it.
- The URL address to any NICE Interaction Management/NICE Engage Platform projects you were using will be different when using XBAP.

Instead of the ASPX link http://<server

name>/NiceApplications/Desktop/webpage/DeskTopWebForm.aspx, the new address will be http://<server name>/NiceApplications/Desktop/XbapApplications/NiceDesktop.XBAP.

NICE Engage Platform 6.x is designed to work only with XBAP, but not with ASPX.

If you previously created shortcuts/favorites, then replace all previously saved links to the new address.

For information on setting up the client computer to work with ASPX, see Using ASPX to Log In To NICE Interaction Management When Using .NET 4.0 or Higher in the Workstation Setup Guide.

Microsoft .NET Framework 4.5 Requirements

NICE Interaction Management 4.1 and NICE Engage Platform 6.x support Microsoft .NET Framework version 4.5/4.5.1/4.5.2.

Login Issues

Due to login issues, it is required to add the EnableIEHosting registry key to all machines where .NET 4.5 is installed. For more details, see the Microsoft article <u>Application Compatibility in the .NET Framework</u> <u>4.5</u>. See the *Certified Servers Guide* for a list of the machines where it is required to add the registry key.

🔶 To fix login issues:

1. Click Start>Search, and in the search field, type Regedit. Figure 7-4: Regedit Search Results

Programs (1)	
regedit	Log off

- 2. Right-click the **Regedit** icon and select **Run as Administrator** from the menu.
- 3. Enter the correct user credentials for working with registries.
- 4. Follow the link mentioned above to find the required registry folder.

NOTE: The registry path is different for x86 and x64 Windows systems: ·

- For x86 systems or for 32-bit processes on x64 systems: Go to the HKLM/SOFTWARE/MICROSOFT/.NETFramework registry key and change the EnableIEHosting value to 1.
- For x64 systems or for 64-bit processes on x64 systems: Go to the HKLM/SOFTWARE/Wow6432Node/.NETFramework registry key and change the EnableIEHosting value to 1.
- 5. Right-click in the registry folder and select **New>DWORD (32-bit) Value** to create a new DWORD value key.

Microsoft .NET Framework 4.5 Requirements



Computer	 Name 	Туре	Data
	(Default)	REG_SZ REG_SZ	(value not set) C:\Windows\Microsoft.NET\Framework
	New	Key	
SECURITY		String Value	
		Binary Value	
🗄 🔒 ATI Technologies		DWORD (32-bit) Val	ue
i ⊕ 📙 Classes		QWORD (64-bit) Va	lue
🗄 🔒 Clients		Multi-String Value	
🕀 🔒 Microsoft		Expandable String V	/alue
🕀 🔒 NICE Systems			
😟 🛄 ODBC			
😟 🔒 Policies			
😟 🛄 Symantec			
🚊 🛄 Wow6432Node			
😟 🔒 AVAYA			
🗄 🔒 Clients			
🖃 🛄 Microsoft			
.NETFramework	- 4		

6. Rename the new key as follows: EnableIEHosting

Figure 7-6: New EnablelEHosting DWORD

Name	Туре	Data
💩 (Default)	REG_SZ	(value not set)
ab InstallRoot	REG_SZ	C:\Windows\Microsoft.NET\Framework\
EnableIEHosting	REG_DWORD	0×00000000 (0)

7. Right-click the EnablelEHosting key and select **Modify** from the menu.



Name	Туре	Data
ab)(Default)	REG_SZ	(value not set)
at InstallRoot	REG_SZ	C:\Windows\Microsoft.NET\Framework
	Modify	0x00000000 (0)
	Modify Binary Data	1
	Delete	
	Rename	1

8. In the Edit DWORD (32-bit) Value window that appears, type 1 in the Value data field and click OK.

Figure 7-8: DWORD Value

dit DWORD (32-bit) V	/alue
Value name:	
EnableIEHosting	
Value data:	Base
1	 Hexadecimal
	C Decimal

NOTE: If this procedure must be performed on multiple client/server machines, use the SCCM/SMS package that contains the registry file to create the EnableIEHosting registry subkey.

Microsoft .NET Framework 4.6 Requirements

NICE Engage Platform 6.5 and up requires Microsoft .NET Framework version 4.6. .NET Framework version 4.6 must be installed on all servers and clients in the site. See *Certified Servers Guide* for a complete list.

Ensuring the Correct XBAP Version

In order for .NET Framework 4.6 to work optimally with XBAP, the newest version of XBAP must be installed. If updating a previous version of NICE Engage Platform to Release 6.5, it is required to delete the previously installed XBAP version. At the next login, the new version of XBAP will be installed automatically.

→ To ensure the correct XBAP version:

Navigate to C:\Users\<username>\AppData\Local, and delete the Apps folder.

At the next login to NICE Engage Platform, the new version of XBAP will be installed automatically.

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8

Microsoft SQL Server

This section describes support for the various Microsoft SQL Server versions.

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SQL Server 2000 SP4

Product	SQL Server 2000 SP4
Release	
Synopsis	

Microsoft SQL Server 2000 SP4 was tested on all NICE components running with Microsoft SQL Server 2000 as set out in the table below.

Table 8-1: Microsoft SQL Server 2000 SP4

SQL Server 2000 Type	Component	OS
SQL Server 2000 Server Edition	CLS 8.70	Windows NT Server
	CLS 8.80	Windows 2000 Server
	CLS 8.90	Windows 2003 Standard Edition
	CLS 8.93	Windows 2003 Standard Edition
	NICE Perform	Windows 2003 Standard Edition
SQL Server 2000 Personal Edition	NCFI	Windows NT WS
	NCF II	Windows 2000 Professional
	NCF III	Windows XP
	Loggers Only 8.80	Windows 2000 Professional
	Loggers Only 8.90	Windows 2003 Standard Edition
	Advantage	Windows 2000 Professional

SQL Server 2005 for NICE Perform Release 3

Product	NICE Perform®, NICE Sentinel
Release	NICE Perform Release 3 NICE Sentinel 2.1
Synopsis	This section describes the Microsoft SQL Server versions supported by NICE Perform Release 3.

NICE Perform Release 3 uses Microsoft SQL Server 2005 (Standard Edition) for its database and Data Mart infrastructure.

NICE upgraded to SQL Server 2005 for its outstanding security and advanced business intelligence capabilities, as well as its improved performance and maintainability.

Supported SQL Server Versions

NICE Perform Release 3 is designed for optimal use of SQL Server 2005, with new features such as:

- Media Encryption For securing the cryptographic information that is used for encrypting the captured voice and screen media, and is stored in the Cryptographic Database.
- NICE Perform IEX Integration.
- Interaction Analytics' ClearSightTM For Root-Cause Analysis.
- Interaction Analytics' Transcription (Speech to Text).

For a detailed overview of SQL Server 2005 additional benefits see Microsoft's The Business Value of Upgrading to SQL Server 2005 white paper, (October 2005).

For all new installations, SQL Server 2005 Standard Edition is used by default. Use of SQL Server 2000 will not be allowed for any new installation of NICE Perform Release 3.

Existing implementations using SQL Server 200, either 8.9 or NICE Perform Releases 1 and 2, wishing to upgrade to NICE Perform Release 3, will also require database migration.

Existing implementations of NICE Perform Release 3 pre-GA version, using SQL Server 2000, will be able to continue using the existing SQL Server 2000 installation for a limited time, unless they want to take immediate advantage of the NICE Perform Release 3 features mentioned above. NICE Perform Feature Pack 1, which is expected mid 2008, will require SQL Server 2005. Therefore, NICE strongly recommend prompt migration to SQL Server 2005 for all customers.

SQL Server Clustering

SQL Server 2005 Standard Edition supports SQL Server clustering.

SQL Server clustering also requires Microsoft Windows Server 2003 Enterprise Edition and certified hardware.

SQL Server Licensing

Customers can purchase SQL Server software and licenses from NICE or provide SQL Server software and licenses on their own.

NOTE: The NICE Perform Application Suites do not include SQL Server software and licenses for the database servers.

SQL Server Software and Licenses Purchased from NICE Systems

Customers can purchase the following types of SQL Server 2005 Standard Edition licenses from NICE:

SQL Server License	Price List Item	Description
Server and Client Access License (CAL)	SQL-CAL-LIC	User based licensing suitable for deployments where only a limited number of users are using the NICE applications.
		The customer needs to purchase as many CALs as the number of users/devices that access the SQL Server directly or indirectly.
		Each Device CAL permits one device, used by any user to access the SQL Server.
		Each User CAL permits one user, using any device, to access the SQL Server.
		Any Device and User CAL combination can be used: You may select to purchase the minimum number of required CALs based on number of seats or number of users, but the purchase order must include a certain minimum number of CALs (see note below).

Table 8-2: SQL Server Licenses

SQL Server License	Price List Item	Description
Per-Processor License	SQL-CPU-LIC	SQL Server Per-Processor licensing is based on the number of CPUs on the server machine that runs the SQL Server. A Per-Processor license supports an unlimited number of users. To encourage the use of dual-core processors, Microsoft charges the same amount of money per processor, regardless of the number of cores in the processor.

Table 8-2: SQL Server Licenses (continued)

NOTE:

SQL-CAL-LIC and SQL-CPU-LIC price list items see SQL Server 2005 only. For a limited time, you may continue and use the former DUAL-CPU-SQL price list item to order additional Per-Processor licenses for SQL Server 2000 for existing pre-GA installations of NICE Perform Release 3. See Special Notes for New and Old Price Lists on page 194 below.

- User based licensing shall be used for the NICE Perform Interaction Package only. For all NICE Perform application packages other than the Interaction Package, and for Interaction Package deployments with a large number of users/seats (50 or more users/seats), Per-Processor (CPU) based licensing shall be used.
- In user based licensing, a CAL is required for each user/seat that accesses the database server directly or indirectly. Hence, users of the ROD application also require CALs.
- For user based licensing, the purchase order must include a minimum of five CALs, (5 SQL-CAL-LIC).

If the SQL Server software and licenses are purchased from NICE, then NICE provides the customer with the SQL Server Auto-Setup Installation CD and a printed SQL Server End-User License Agreement (EULA) stating the number of licenses and their type. The Auto-Setup CD can also be used to upgrade an existing SQL Server 2000 installation to SQL Server 2005.

SQL Server software and licenses purchased from NICE cannot be used for any purpose other than to serve NICE products. The SQL Server installation is embedded in the NICE Perform SQL Server Auto-Setup installation and cannot be separated from it. The installation is performed by a certified installer of NICE or a business partner.

The SQL Server Auto-Setup installation is followed by the NICE Perform Database Suite installation and the NICE Perform Application Server installation.

Customer-Provided SQL Server Software and Licenses

NICE allows customers to provide SQL Server software and licenses on their own.

In this case, the customer is responsible for providing a machine with an installed SQL Server. The following is required:

- The server machine must satisfy the minimal hardware and network connectivity requirements published by NICE.
- The SQL Server configuration must fully comply with the NICE Perform SQL Server configuration requirements.
- The customer must present valid SQL Server licenses for the servers to be used by NICE applications. See SQL Server License Requirements below.

The NICE Perform Database Suite installation ensures that the SQL Server configuration meets NICE requirements. The Database Suite installation may automatically stop if the SQL Server configuration deviates from the NICE guidelines, to prevent any future performance difficulties or system malfunctioning that may arise. If the server is improperly configured, the installation clearly presents the configuration problem encountered, so the customer can make the necessary corrections.

The customer takes full responsibility for the support of the SQL Server, and communicates directly with Microsoft. However, the customer needs to follow NICE maintenance and backup guidelines and consult NICE on any configuration change. NICE remains fully responsible for the NICE Perform database itself.

Upgrading from SQL Server 2000 to SQL Server 2005

The NICE Perform Release 3 upgrades do not include SQL Server 2005 software and licenses.

In case an upgrade from SQL Server 2000 to SQL Server 2005 is required, customer needs to purchase new SQL Server 2005 licenses from NICE or provide the necessary software and licenses independently. SQL Server 2000 licenses cannot be reused.

There are no discounts on SQL Server licenses sold by NICE for SQL Server upgrade. Same prices apply to both new SQL Server licenses and upgrades from SQL Server 2000 to SQL Server 2005.

SQL Server License Requirements

For all NICE Perform application packages, other than the Interaction Package, an SQL Server CPU-based licensing scheme should be employed. Here are a few examples on how to use SQL Server Per-Processor licenses for different deployments.

Single Site Deployment

In most deployments, the NICE Perform database and the Data Mart database are installed on and managed by the same SQL Server.

Customer needs to purchase as many SQL Server Per-Processor licenses as the number of CPUs on the server machine that runs the SQL Server. For example, a dual-processor machine requires two Per-Processor licenses. SQL Server 2005 Standard Edition supports up to four CPUs.

In some deployments, for scalability reasons, the Data Mart will be installed on and managed by a separate SQL Server. In this type of deployment, additional SQL Server Per-Processor licenses must be purchased.

Multi-Data Hub Deployment

A data hub is a combination of a NICE Perform Application Server and Database at a certain site.

A multi-data hub deployment includes several such data hubs located in different sites, of which one is considered the **Primary Data Hub** and the others are considered to be **secondary Data Hubs**. Usually, the Primary Data Hub site also features the Data Mart database, installed on and managed by a separate SQL Server.

An adequate number of Per-Processor licenses should be purchased according to the number of CPUs on each server machine that runs SQL Server, both for Database Server(s) and Data Mart.

NOTE: In a multi-data hub deployment, all SQL Server instances must have the same SQL Server version.

Network Management Station (NMS)

NICE NMS uses a Microsoft SQL Server database to store and efficiently manage the information contained in the NICE Management Information Base (MIB) file.

The NMS uses its own SQL Server 2000 Standard Edition installation, separated from the NICE Perform database and Data Mart database.

NOTE: The NICE Perform Application Suites, including NICE Perform SMB Applications, do not include the NMS software. The NMS should be ordered separately (NMS-NP-SRV price list item).

The NMS requires a single SQL Server 2000 Standard Edition CAL, which is included in the NMS license (NMS-NP-SRV price list item). There is no need to separately order an SQL Server license.

If Unicenter Remote Admin Client is used on remote workstations, an additional CAL is required for each Remote Admin Client. The additional CAL is included in the Remote Admin Client license (NMS-NP-CLNT price list item). There is no need to separately order an SQL Server license.

NICE Perform SMB

NICE Perform SMB also employs Microsoft SQL Server 2005 Standard Edition. The NICE Perform SMB Applications packages include 10 Client Access Licenses (CALs). Additional CALs can be purchased using the SQL-CAL-LIC price list item.

Special Notes for New and Old Price Lists

The new price list for release 3, with SQL-CAL-LIC and SQL-CPU-LIC price list items, is effective as of **June 1st**, **2007**.

After June 1st 2007, orders for Release 3 that do not include the new price list items, will be treated based on the new GA price list, and NICE will assume that the customer will supply the SQL Server software and licenses on its own. Orders for new Release 3 installations that include DUAL-CPU-SQL will be rejected.

Orders for upgrades from NICE Perform Release 3 pre-GA version that wish to continue using SQL Server 2000, require NICE Product Management and Project Management approval (commitment).

After June 1st 2007, orders for Release 3 will no longer include the NMS software and licenses by default. The NMS software and licenses must be explicitly ordered using the adequate price list item.

SQL Server 2008

Enabling Microsoft Distribute Transaction Coordinator (MSDTC) to Function in Multi Site Environments

Product	NICE Perform, NICE Interaction Management, NICE Sentinel
Release	NICE Perform Release 3.x NICE Interaction Management Release 4.1 NICE Sentinel 2.x NICE Sentinel 4.1
Synopsis	This section describes procedures that enable MSDTC to function properly in multi site environments.

The SQL Server uses Microsoft Distribute Transaction Coordinator (MSDTC) to execute distributed transactions.

A distributed transaction is a transaction between two SQL Servers. NICE Perform/NICE Interaction Management creates a distributed transaction in multi site environments, for instance when the Rule Engine writes storage tasks from the secondary site to the master site.

MSDTC will not function properly in an environment where the two servers are using the same Windows OS image, for example where the 'Ghost' program is used to copy the Windows image to the disk. The reason for the problem is that both servers that are installed from the same image, have an identical key in the MSTDC section in the SQL Server registry.

If the distributed transaction fails and the registry keys are different, there may be other reasons for the failure. See Final Verification on page 214.

This document describes how to fix the problem without re-installing the entire system.

G Important!

Make sure that your system is fully backed up before proceeding.

The process includes the following steps:

- 1. Removing the Network DTC Access.
- 2. Uninstalling the DTC.
- 3. Removing the MSDTC key from the registry.
- 4. Installing the MSDTC.
- 5. Re-installing the network DTC access.

6. Restoring the original security settings.

Removing the Network Distribute Transaction Coordinator (DTC) Access

The following procedure enables you to remove the DTC access.

➡ To remove the network DTC access:

1. Select Start, and select Settings > Control Panel > Add or Remove Programs. The Add or Remove window appears.

Figure 8-1: Add or Remove Programs Window

🐞 Add or Ren	nove Programs			
5	Currently installed programs:	Show up <u>d</u> ates	Sort by: Name	•
Change or Remove	🛱 Avaya CT TS Win32 Client		Size	0.97MB
Programs	To change this program or remove it from your com	puter, dick Change/Remove.	Chang	e/Remove
- 5	Crystal Enterprise 10 Embedded		Size	297.00MB
Add <u>N</u> ew Programs	Intel Audio Studio 2.0		Size	10.52MB
	Intel(R) PRO Network Connections Drivers			
	Microsoft SQL Server 2000		Size	67.12MB
<u>Windows</u>	13 NICE CLS		Size	18.61MB
Components	NICE Database Suite		Size	16.56MB
	NICE Perform Applications Suite 9.10		Size	358.00MB
	15 Nice Perform Integrations		Size	8.18MB
	13 NICE Player		Size	13.94MB
	NICE SAMS Server		Size	1.34MB
	13 NiceScreen Logger		Size	1.45MB
	13 ScreenSense Server		Size	24.02MB
	🔀 SigmaTel Audio		Size	28.93MB
	Windows Server 2003 Service Pack 1			
	15 XMLinst		Size	1.28MB
	L			

2. Click Add/Remove Windows Components.

The Windows Components Wizard starts.

Removing the Network Distribute Transaction Coordinator (DTC) Access

Figure 8-2: Windows Component Wizard

🔂 Ad	ld or Remove Programs			-OX
	Currently installed programs:	Show updates	Sort by: Name	•
	Windows Components Wizard	×	Size	0.97MB
Pr	Windows Components	R		
1	fou can add or remove components or windows.		Chang	e/Remove
Ar			Size	297.00MB
Pri	To add or remove a component, click the checkbox. A shaded box part of the component will be installed. To see what's included in a o Details.	means that only component, click	Size	10.52MB
	Components:		Size	67.12MB
Add W	Constant Accessories and Utilities	4.9 MB	Size	18.61MB
Con	Application Server	33.4 MB	Size	16.56MB
		1.1 MB	Size Circ	20.0000
	Galfax Services	7.9 MB	Size	358.00MB
	Description: Includes ASP.NET, Internet Information Services (IIS),	and the	Size	8.18MB
	Application Server Console.		Size	13.94MB
	Total disk space required: 12.4 MB Space available on disk: 8959.9 MB	<u>D</u> etails	Size	1.34MB
			Size	1.45MB
-			Size	24.02MB
	< <u>B</u> ack <u>N</u> ext > Car	Help	Size	28.93MB
	XMLinst		Size	1.28MB

3. In the **Components** list, select **Applications Server**, and click **Details**. The Application Server window appears.

Eiguro	0 2. An	nlication	Sonvor	Window
rigui e	0-3. AP	plication	Server	WIIIUUW

	v.
windows Components wizard	
Application Server	× ×
To add or remove a component, click the check box. A shaded box me of the component will be installed. To see what's included in a compon	eans that only part ent, click Details.
Subcomponents of Application Server:	
🗹 🚡 Application Server Console	0.0 MB
ASP.NET	0.0 MB
Enable network COM+ access	0.0 MB
Enable network DTC access	0.0 MB
Internet Information Services (IIS)	26.9 MB
	6.5 MB
, Description: Allow your DTC process to participate in network transa	ctions.
Total disk space required: 12.4 MB	Details
Space available on disk: 8958.5 MB	
OK	Cancel
< <u>B</u> ack <u>N</u> ext >	Cancel Help

- 4. Clear the Enable network DTC access checkbox.
- 5. Click **OK**. The Windows Components Wizard window reappears.
- 6. Click Next. The Configuring Components window appears.

Figure 8-4: Configuring Components Window

Windows Components Wizard	×
Configuring Components Setup is making the configuration changes you requested.	E
Please wait while Setup configures the components. This may take several minutes, depending on the components selected.	
Status: Completing configuration of Cluster Service	
< <u>B</u> ack <u>N</u> ext >	Help

7. When the configuration of the Cluster Service is completed, click **Next**. The Completing the Windows Components Wizard window appears.



Figure 8-5: Completing the Windows Components Window

8. Click Finish to close the wizard.

Uninstalling the DTC

- ➡ To uninstall the DTC:
- 1. Click Start, and select Run. Type cmd, and click OK. The following window appears.





2. To stop the MSDTC, enter the following command: **net stop msdtc**.

Figure 8-7: C:\WINDOWS\System32\cmd.exe



The following window appears.

Figure 8-8: C:\WINDOWS\System32\cmd.exe



3. Change the directory to c:\WINDOWS\system32

Figure 8-9: C:\WINDOWS\System32\cmd.exe



The following window appears.

Figure 8-10: C:\WINDOWS\System32\cmd.exe



4. Write command **msdtc -uninstall** to uninstall MSDTC, as shown in the following window.

Figure 8-11: C:\WINDOWS\System32\cmd.exe



When the uninstall is completed, the following window appears.

Figure 8-12: C:\WINDOWS\System32\cmd.exe



Removing the MSDTC Key from the Registry

➡ To remove the MSDTC key from the registry:

1. Navigate to **Start**, and select **Run**. **Figure 8-13: Run Window**



2. In the **Open** field, type **regedit** and click **OK**. The Registry Editor window appears.



💣 Registry Editor			
Ele Edit View Favorites Help IPSec IP	Name (Default) AllowOnlySecureRp ClusteringVersion	Type REG_SZ REG_DWORD REG_DWORD	Data (value not set) 0x00000000 (0) 0xfffffff (429494
	MaxLogSize	REG_DWORD REG_DWORD REG_DWORD	0x00000000 (0) 0x00000000 (512 0x0000000 1 (1)
MSLicensing MSLicensing MSKQ MSSQLServer Multimedia Mr. NET Framework Setup NetDDE			Þ
My Computer \HKEY_LOCAL_MACHINE \SOFTWARE	Microsoft/MSDTC		1.

3. Right-click **MSDTC**, and select **Delete**. The following dialog box appears.

Figure 8-15: Confirm Key Delete Message



4. Click Yes. MSDTC is deleted from the Registry Editor.

Figure 8-16: Registry Editor

💰 Registry Editor				
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>H</u> elp				
- IPSec 🔺	Name	Туре	Data	
🕀 🧰 Jet	(Default)	REG_SZ	(value not set)	
😟 🧰 Keyring				
E LANManagerMIB2Agent				
😟 🛄 MediaPlayer				
MessengerService				
😟 🧰 Microsoft SQL Server				
B MMC				
- MMCtisForIE				
🗈 🧰 Mobile				
MosTrace				
MS Design Tools	·			
Horizontal MSLicensing				
E MSMQ				
MSSQLServer				
🗈 🧰 Multimedia				
Description: NET Framework Setup				
😥 📄 NetDDE				
- NetSh 💌	1			
	•		Þ	
My Computer HKEY_LOCAL_MACHINE SOFTWAR	EVMicrosoft WSLicensing		11.	

5. Close the Registry Editor.

Re-Installing the MSDTC

→ To re-install the MSDTC:

1. In the command prompt window, type the command **msdtc -install.**

```
Figure 8-17: C:\WINDOWS\System32\cmd.exe
```



2. When the installation is completed, the following window appears.

Figure 8-18: C:\WINDOWS\System32\cmd.exe



Re-Installing Network DTC Access

This procedure is very similar to the To remove network DTC access procedure. See Removing the Network Distribute Transaction Coordinator (DTC) Access on page 196

➡ To re-install network DTC access:

- 1. Select Start, and select Settings > Control Panel > Add or Remove Programs. The Add or Remove window appears.
- 2. Click Add/Remove Windows Components. The Windows Components Wizard starts.
- 3. In the **Components** list, select **Applications Server**, and click **Details**. The Applications Server window appears.

Figure 8-19: Applications Server Window

Application Server	×
To add or remove a component, click the check box. A shaded box m of the component will be installed. To see what's included in a compor	eans that only part nent, click Details.
Subcomponents of Application Server:	
🗹 📸 Application Server Console	0.0 MB 🔺
ASP.NET	0.0 MB
Enable network COM+ access	0.0 MB
Enable network DTC access	0.0 MB
Internet Information Services (IIS)	26.9 MB
Message Queuing	6.5 MB
Description: Allow your DTC process to participate in network transa	actions.
Total disk space required: 12.4 MB	Details
Space available on disk: 8937.6 MB	
ОК	Cancel

- 4. Select the **Enable network DTC access** checkbox, and click **OK**. The Windows Components Wizard window reappears.
- 5. Click **Next**. The Configuring Components window appears.
- 6. When the configuration of the Cluster Service is completed, click **Next**. The Completing the Windows Components Wizard window appears.



Figure 8-20: Completing the Windows Components Window

7. Click Finish to close the wizard.

Restoring the Original Security Settings

Since MSTDC has been re-installed, the security definitions required by the NICE system must be reset.

- → To restore the original security settings:
- 1. Select **Start**, and select **Settings > Control Panel > Administrative Tools > Component Services**. The Component Services window appears.



Component Services		<u> </u>
Eile Action View Window Help		_ 8 ×
Console Show/Hide Console Tree Component Services Event Viewer (Local) Services (Local)	Console Root Name Component Services Event Viewer (Local) Services (Local)	

2. Expand **Computer Services**, and **Computers**. The following window appears:

🛞 Component Services				_ 8 ×
Eile Action View Window Help	p			_8×
⇐ ⇒ 🛍 🔟 🗶 😭 😫	1 🛍 🕒 📴 🖽 🗰 🗊			
Console Root Component Services Computers Active Directory Users and Comp Event Viewer (Local) Services (Local)	COM+ Applications	Distributed Transacti	Running Processes	

Figure 8-22: Component Services Window

3. Right-click **My Computer**, and select **Properties**. The My Computer Properties window appears.

Figure 8-23: My Computer Properties Window

y Computer Properties		22
Default Protocols General	Options Default Pro	Security perties
BENTZIS		
Description:		
1		
	OK Cancel	Apply

4. Click the **MSDTC** tab. The following window appears.

Figure 8-24: My Computer Properties - MSDTC Tab

omputer Pro	perties	
General	Options	Default Properties
Default Prot	ocols MSDTC	COM Security
Default Coordin	ator coordinator	
Remote <u>H</u> ost		Sglect
og Information	(Currently owned by CRESPO)	_
Location:	C:\WINDOWS\system32\MSDtc	Browse
Qapacity:	4 MB	Beset log
Jient Network	Protocol Configuration	
TCP/IP		
ienvice Control tatus: Started <u>Start</u> Fransaction Co Securgy C	Status for MSDTC version 5.2.3790 at 1:01:13 PM - 7/9/2006 Stop rfiguration orfiguration	ons

5. Click the **Security Configuration** button. The Security Configuration window appears.

Figure 8-25: Security Configuration Window

Security Configura	ation			<u>?×</u>
Security Settings				
Cleat and Ad	Access			
Allow Rem	ote Cjents F	Allow Remot	e Administration	
Transaction N	Anager Communication		_	1000
Allow Inbo	und (Allow Outbox	und	
C Mutual	Authentication Require	đ		
C Incomi	on Caller A thertication	Required		
(No Aut	hentication Required)		
Enable Tra	insaction Internet Protoc	ol (TIP) Transa	ctions	
Finable & A Tra	nsactions			
DTC Logon Acco	unt			
Account:	NT Authority\Network	Service	Browse	
Pageword.				
Cogfirm password:				
	a . 1			
OK	Cancel			

- 6. Make sure that the settings are identical to those in the above window, in particular:
 - The Allow Inbound, Allow Outbound and Enable XA Transactions checkboxes must be marked.
 - The **No Authentication Required** radio button must be selected.
- 7. Click **OK**. The My Computer Properties window re-appears.
- 8. Click **OK**. The DTC Console Message dialog box appears.

Figure 8-26: Console Message



9. Click Yes. The following message is issued:

Figure 8-27: DTC Console Message

DTC Cons	ole Message 🛛 🔀
i	MS DTC service has been restarted
	OK

NOTE: If the SQL Server is already installed, you need to also restart the SQL Server service.

Final Verification

In the secondary site, execute the following query from the Query Analyzer:

BEGIN TRANSACTION

SELECT * FROM nice_rule_link.nice_admin.dbo.tblSCTasks

COMMIT

If there is an error in the output, there might be causes other than those that were discussed previously in this document, which resulted in the MSDTC failure.

→ To check for other causes for MSDTC failure:

- 1. Access the **Tools** folder of the NICE Application installation, and select the **DTCPing** utility.
- 2. In the **Remote Server Name** field, type the name or IP of the Master Database Server, as shown in the following illustration:

MSDTC Simulation ¥1.9	X
Remote Server Name: JERUSALEM	
DTCping log file: D:\Win Utilities\DTCPing\BENTZIS6068.log RPC server is ready Please Start Partner DTCping before pinging	<u> </u>
۲.	v F
<u>P</u> ING <u>C</u> lose	

3. Click **PING**. The utility generates a log file with detailed information.

SQL Server 2012

Product	NICE Engage Platform, NICE Sentinel
Release	NICE Engage Platform 6.x Real-Time Solutions 4.9.6
	NICE Sentinel 6.X

For more information see:

- Requirements and Best Practices for Microsoft SQL Server
- Microsoft Cluster Installation for NICE Environments
SQL Server 2014

Product	NICE Engage Platform
Release	NICE Engage Platform 6.x NICE Sentinel 6.X

For more information see:

- Requirements and Best Practices for Microsoft SQL Server
- Microsoft Cluster Installation for NICE Environments

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9

Microsoft Security Bulletins

This section describes Microsoft security bulletins.

Contents

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Patch Management Tools	222

KBs Delivered by Microsoft and NICE Certification Policy

Microsoft launched a new policy in October 2016 where security and non-security packages are released in a cumulative rollup in addition to security update bulletins.

Security update bulletins are approved by NICE on a monthly basis.

Rollups released by Microsoft are not approved by NICE.

Package	Windows Vista SP2, Windows Server 2008 SP2 (with supported IE versions and .NET Framework)	Windows 7 SP1, Windows 8.1, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2 (with supported IE versions)	Windows 10 (with supported IE versions and .NET Framework)	.NET Framework	SQL
Separate security	KB delivered by				KB
KBs	Microsoft and				delivered
	certified by				by
	NICE				Microsoft
					and
					certified
					by NICE

9: Microsoft Security Bulletins

KBs Delivered by Microsoft and NICE Certification Policy

One KB package with security only Includes KBs that are relevant and non-relevant to NICE	KB delivered by Microsoft and certified by NICE		KB delivered by Microsoft and certified by NICE	
Monthly rollup	KB delivered by	KB delivered	KB	
KB (includes	Microsoft	by Microsoft	delivered	
security and		and	by	
non-security)		certified by	Microsoft	
Includes KBs that		NICE		
are relevant and				
non-relevant to				
NICE				

Patch Management Tools

DBM Error on Loggers due to MS Security Patch KB921883

Product	DBM Error on Loggers
Release	
Synopsis	This section describes an issue as a result of installing a security patch.

General Description

This issue can occur either during a new Logger installation, or after installing the Microsoft Security Patch on an existing Logger.

This can affect all Loggers running on Microsoft Windows Server 2003 (HD, NCFIII, VoIP).

The Microsoft patch is KB 921883 (MS 06-040).

Problem Symptom

 During Logger startup, the following messages can be seen in the LogSrv window, as well as in the Logger log file (LogFile.dat): BUG: DBM: DBM.DLL: Exception EAccessViolation in module DBM.DLL at 00026ECD. Access violation at address 01266ECD in module 'DBM.DLL'. Write of address 00 0 0 8/26/2006 6:48:07 AM

BUG: DBM: DBM.DLL: MapFile Address: 00025ECD 0 0 8/26/2006 6:48:07 AM

2. Immediately after this, the window hangs as shown below, and the Logger will not initialize.

Figure 9-1: NICE Digital Logger



Additional information of the issue from MS point of view can be found on MS site: <u>http://support.microsoft.com/kb/924054</u>

Resolution

Install MS Hot-fix KB924054.

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10

Federal Information Processing Standards (FIPS)

Federal Information Processing Standards (FIPS) are publicly announced standards developed by the U.S. federal government for use in computer systems by non-military government agencies and government contractors. They were issued to establish requirements for various purposes such as ensuring computer security and interoperability.

The U.S. government developed a variety of FIPS specifications to standardize a number of topics including:

- Codes such as standards for encoding data (e,g,, country codes or codes to indicate weather conditions or emergency indications).
- Encryption standards, such as the Data Encryption Standard (FIPS 46-3) and the Advanced Encryption Standard (FIPS 197).

Configuring Windows for FIPS

The FIPS mode can be applied on the server or client machine in one of two ways:

- It can be part of the domain policy.
- It can be manually configured on the server or client machine.



1. Open the Local Security Policy by selecting **Start -> Administrative tools->Local Security Policy**. Run the Local Security Policy under a user that has privileges to edit the local policy.

Internet Explorer Internet Information Services (IIS) 6.0 Internet Information Services (IIS) Ma Internet Information Services (IIS) Ma) Manager nager
Notepad , SCSI Initiator	
Local Security Policy	
Command Promot Harden SysPQE O Performance Monitor	
Security Configuration Wizard	
Nice Services Configuration Documents 🚡 Server Manager	
Manager - Shortcut	
Computer 🙀 Share and Storage Management	
Manager Storage Explorer	
Network System Configuration	
Services	
Control Panel Control Panel	
Remote Desktops	ncy
Devices and Printers	
6.0 Manager	
Administrative Loois Windows Server Backup	
notepad - Shortcut Help and Support	
A Event Viewer Run	
All Programs Windows Security	
Search programs and files Log off	

2. In the open window, change the security settings. Navigate to Security Settings->Local Polices->Security Options and select System Cryptography: Use FIPS compliant algorithms for encryption, hashing and signing (disabled by default).

10: Federal Information Processing Standards (FIPS)

Configuring Windows for FIPS

Local Security Policy		
Ele Action Yew Help		
Security Settings Account Policies Cocal Policies Security Options Windows Firewall with Advanced Security Network List Manager Policies Public Key Policies Application Control Policies Application Control Policies Advanced Audit Policy Configuration	Policy Network security: Restrict NTLM: Add server exceptions in this d Network security: Restrict NTLM: Audit Incoming NTLM Traffic Network security: Restrict NTLM: Audit NTLM authentication in thi Network security: Restrict NTLM: Incoming NTLM traffic Network security: Restrict NTLM: NTLM authentication in this dom Network security: Restrict NTLM: Outgoing NTLM traffic to remot Recovery console: Allow automatic administrative logon Recovery console: Allow floppy copy and access to all drives and Shutdown: Allow system to be shut down without having to log on Shutdown: Clear virtual memory pagefile System cryptography: Force strong key protection for user keys System objects: Require case insensitivity for non-Windows subs	Security Setting Not Defined Not Defined Not Defined Not Defined Not Defined Disabled Disabled Disabled Disabled Enabled Enabled Enabled Enabled

3. Restart all of the servers and clients whose FIPS mode was activated.

Spell Check Limitation

For secured sites running Insight Manager, Form Designer, Lexicon Manager and Business Analyzer, spell check functionality is not available when FIPS is enabled on the system.

Users will receive the following error when activating the spell check:

Spell check is not available since FIPS (Federal Information Processing Standards) is enabled on this system.

Microsoft Daylight Savings Time Updates

This section provides the Microsoft Daylight Savings Time (DST) updates supported by NICE Systems. For Microsoft Daylight Savings Time configurations, see the *Maintenance Guide*.

Microsoft DST Updates	Supported in:	Comments
KB 928388	NICE Perform Release 3.1	Approved
KB 929120	NICE Perform Release 3.2	
KB 933360	NICE Perform Release 3.5	
KB 942763	NICE Interaction Management 4.1	
KB 951072	NICE Engage Platform 6.x	
KB 955839		
KB 970653		
KB 976098		
KB 981793		
KB 2158563		

Microsoft DST Updates	Supported in:	Comments
KB 2443685		
KB 2570791		
KB 2633952		
KB 2756822		
КВ 2779562		
KB 2863058		
KB 2974661		
KB 2984350		
КВ 2967990		
KB 2981580		
КВ 2998527		
KB3011843		
KB3013410		
KB3049874		
KB3062741		

Microsoft DST Updates	Supported in:	Comments
KB3062740		
KB3077715		
KB3093503		
KB3112148		
KB3148851		
KB3153731		
KB3162835		
KB3148851		
KB3153731		
KB3162835		
KB3177723		
KB3182203		
KB3192321		

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12

Antivirus

This section includes installation instructions and limitations for Antivirus products on client computers and loggers.

NOTE: The information in this section refers to software versions only. In addition, customers, business partners, and services must verify that the servers and Loggers meet the minimum hardware requirements as defined by the third party software vendor.

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General Antivirus

Antivirus Certifications for NICE Products below

Antivirus Certifications for NICE Products

Product	Antivirus Certifications for NICE Products
Release	
Synopsis	This section includes general instructions and limitations for Antivirus Certifications for NICE Products, NICE Products and Antivirus Certifications matrices, as well as procedures for installing antivirus products on client computers and Loggers.

General Instructions

A list of general instructions follows:

- During the installation of the antivirus software, all applications and screens must be closed.
- The same applies when upgrading the antivirus software.
- Scan and Live Updates should be scheduled to run in system idle time.
- Do not run Scan or Live Update during NICE software installation.
- Always set Scan Priority to Low.

General Limitations

- To avoid playback, performance, and retention issues, the destination paths of all Storage Units must be excluded from antivirus scans. See the System Administrator - Configuration Guide- for more information regarding setting up Storage Units.
- When installing an antivirus on a cluster, take the following guidelines into account:
 - The antivirus software should be cluster-aware. An application is cluster-aware if it has the following characteristics:
 - It uses TCP/IP as a network protocol.
 - It maintains data in a configurable location.
 - It supports transaction processing.
 - On the clustered servers, Microsoft recommends excluding the following folders from antivirus scanning:
 - The path of the \mscs folder on the quorum hard disk. For example, exclude the **Q:\mscs** folder from virus scanning.
 - The **%Systemroot%\Cluster** folder.
 - The temp folder for the Cluster Service account. For example, exclude the \clusterserviceaccount\Local Settings\Temp folder from virus scanning.

McAfee ePO

- McAfee ePO 3.5 works with McAfee Antivirus 8.5/8.5i.
- McAfee ePO 4.0 works with McAfee Antivirus 8.5/8.5i and 8.7/8.7i.
- McAfee ePO 4.5 works with McAfee Antivirus 8.5i and 8.7.
- McAfee ePO 4.6 works with McAfee Antivirus 8.5i, 8.7i and 8.8
- McAfee ePO 5.1 works with McAfee Antivirus 8.8
- Make sure that when using ePO for Microsoft patches update, the configured policy matches the NICE policy concerning Microsoft Windows updates and Service packs.

McAfee

- Make sure to clear the option to install the McAfee firewall. Do not install the firewall, as it would cause network problems.
- It is recommended to set the CPU Utilization for the On Demand Scan in McAfee AV to 10%.
- The McAfee's VirusScan version 8.0 feature Buffer Overflow Protection does not allow applications to overflow the buffer, including the CLS Log Manager. This causes the Log Manager to write logs (Channel server, Call server etc.) with a very long delay, or not write them at all. Therefore this feature should be disabled for all machines running CLS. See also to TN0640 McAfee ePO 3.5 and McAfee Antivirus Certification for NICE 8.80.

McAfee Limitation:

Memory Scan process in McAfee 8.5/8.7 on some TDM Loggers can cause the system to crash with BSOD. This problem was resolved in McAfee 8.7 Patch 3, and in later versions, but still exists in McAfee 8.5.

Do not use versions earlier than McAfee 8.7 Patch 3 on servers with TDM Loggers.

SEP

- NICE Products support Symantec Endpoint Protection.
- In some cases, SEP 12.1 and up can detect NICE or even Microsoft binaries as malware and place them in the Quarantine folder. To prevent false-positive detection, follow the recommendations available in the Symantec white paper Sizing and Scalability Recommendations for Symantec Endpoint Protection (<u>http://clientui-kb.symantec.com/resources/sites/BUSINESS/content/staging/DOCUMENTATION/4000/DOC4448/en_</u>

US/1.0/Endpoint%20Protection%20Sizing%20and%20Scalability%20Best%20Practices_%20v2.3.pdf).

Exceptions can be added from within the Symantec Endpoint Protection Manager console to provide false-positive mitigation on the client. For example, you can do the following:

Exclude your domain from Insight detection.

Antivirus Certifications for NICE Products

Figure 12-1: Exceptions Window

Exceptions	Exceptions					
Policy	Exceptions					
verview	Configure exceptions for scans and T	amper Protection, as applicable				
ceptions	Exception Name	Distince	Anotice To	Exception Trees	Action	
ent Restrictions	Exception Rem	Platorni Waterwat	Al clasts	Trusted Vieb Comain	Action	
	www.warezbeeker.com	EC VIENDOW'S	All clients	Trusted web Doman	Ignore	
				Add • Ed	R Delete	
	Exception Details			Add • Ed Windows Excep	R. Delete dians P Applicatio	m
	Exception Details			Add Ed Windows Exceptions Mac Exceptions	It Delete clions + Applicatio + Applicatio	on on to Monitor
	Exception Details	seeker.com		Add Ed Windows Excep Mac Exceptions	R Delete tions + Applicatio Applicatio Applicatio	on on to Monitor on Control
	Exception Details Exception terr: www.wwreze Apples To: All clerits	eeker.com		Add Ed Windows Excep Mac Exceptions	tt tions → Applicatio Applicatio Extension	on un to Monitor on Control tes
	Exception Details Exception tem: www.warezs Apples To: All clerks Actor: lignore	seeker.com		Add Ed Windows Exceptions	it. Delete stions Applicatio Applicatio Extension File	in in to Monitor in Control is
	Exception Details Exception terr: www.wwrezs Apples To: Al clerits Action: Ignore Exception twe: Trusted Web D	seeker.com		Add Ed Windows Exceptions	R Delete tions + Applicatio Applicatio Extension File Folder	on In to Monitor In Control Its
	Exception Details Exception Item: www.warezs Applies To: All clients Action: Ignore Exception type: Trusted Web D	seeker.com		Add Ed Windows Excep Mac Exceptions	R. Delete tions + Applicatio + Applicatio Extension File Folder Known Ri	on un to Monitor on Control ns

NOTE: You can select Trusted Web Domain, to add a Web domain to the exceptions policy.

Add exclusions or exceptions for critical files, folders, URLs, and IP addresses.

NOTE: When you add exceptions, you can select more than one application, file, URL, or IP address at a time. A known-good application can appear in the Risk Logs as a false-positive. You can configure log settings to allow the application and thereby prevent it from appearing in the Risk Log. This same functionality is also available in the SONAR Logs.

Figure 12-2: Risk Logs Window

Summary	Logs	Command Stat	tus Notificat	ions							
Risk Log	js						Tell m	e more	Auto-refresh:	Never	
<< Back									Last updat	ed at: 05/25/2010	18:35:27
Expor	t 🖸	Details							💁 VI	ew Applied Filters	(2)
View: All											
Display: 1000 entries Change Action: Add risk to Exceptions policy Apply											
A	ction [Date/Time▼	Event▼ Action▼	Web Domain 🕶	Risk Name▼ Source▼	User Name⊽	Computer▼ Domain▼	Count⊽	Filepath	,	User Allowed
	etails	/25/2010	Malicious download	183.168.232.137	WS.Reputation.1 Auto-Protect scan	srivera	symantec- 5d3993 Default	1	C:\Documents Settings\sriver axBad.exe	and a\Desktop\DA_M	No
	llow appl	ication			WS Reputation 1		symantec-		C: Documents	and	

For more information, see the Symantec Endpoint Protection and Symantec Network Access Control Implementation Guide.

SEP Limitations

Starting with SEP (Symantec Endpoint Protection) version 12.1.2 and up, the SEP firewall causes issues with Microsoft Cluster setup and functionality. To avoid this issue change the SEP settings to allow IP traffic.

➡ To change the SEP settings:

1. Open Symantec Endpoint Protection (SEP).

Antivirus Certifications for NICE Products

U		Status - Symantec Endpoint Protection	_ 🗆 X
	Status	TIP-	Help
Status	The follow	ing Symantec security components are installed on your computer:	
Scan for Threats Change Settings View Quarantine	2	Virus and Spyware ProtectionProtects against viruses, malware, and spywareDefinitions:Tuesday, March 18, 2014 r17	Options
View Logs LiveUpdate	2	Proactive Threat ProtectionProvides zero-day protection against unknown threatsDefinitions:Tuesday, March 4, 2014 r11	Options
		Network Threat ProtectionProtects against Web and network threatsDefinitions:Tuesday, March 18, 2014 r11	Options
Symantec.			

2. In the left column, click **Change Settings**. The Change Settings area appears on the right.

Antivirus Certifications for NICE Products

Ψ		Change Settings - Symantec Endpoint Protection	_ □ ×
	Change	e Settings	Help
Status	You can chan	ige the following settings:	
Change Settings View Quarantine		Virus and Spyware Protection Protects against viruses, malware, and spyware	Configure Settings
LiveUpdate		Proactive Threat Protection Provides zero-day protection against unknown threats	Configure Settings
		Network Threat Protection Protects against Web and network threats	Configure Settings
		Exceptions Exceptions provide the capability to exclude files, folders, and processes from being scanned	Configure Settings
Symantec.		Client Management Provides functionality to manage this client	Configure Settings

3. In the **Network Threat Protection** area, click **Configure Settings**. The Network Threat Protection Settings window appears.

Antivirus Certifications for NICE Products

irewall Intrusion Preventio	n Microsoft <u>W</u> ind	ows Networking	<u>N</u> otifications	Logs
🗹 Enable Firewall				
Built-in Rules				
🗹 Enable Smart D <u>H</u> CP		✓ Enable Smart	DNS	
🗹 Enable Smar <u>t</u> WINS				
Traffic Settings				
Enable <u>N</u> etBIOS prote	ction			
Allow token ring traffic				
Enable anti- <u>M</u> AC spool	fing			
Enable network applic	ation monitoring			
Block all traffic until the	e firewall starts and	after the firewall st	ops	
Allow initial DHCP	and NetBIUS traffic)		
Enable denial of servic	e detection			
	saon			
Unmatched IP Traffic Sett	ings			
	raffic			
Promot before allo	wing application trai	ffic		
A ative Baseauce Cattings	ing approacent a			
Active Response Settings				
Number of seconds to	automatically block	an attacker's IP a	address: [6	500
Stealth Settings				
Caution: There can be co	mpatibility issues wh	ien using these st	ealth settings.	Only use
Enable TCP reservence	ave conrimea comp cina	acconty.	i mode Web bi	rowsina
Enable OS fingerprint r	masquerading			. e ri oni ig

- 4. In the Firewall tab, in the Unmatched IP Traffic Settings area, select Allow IP traffic. By default, Allow only application traffic is selected.
- 5. Click OK.
- 6. Restart your computer.

Trend Micro

Trend Micro AV requires that the NICE servers belong to the same domain.

Sophos

- Sophos Exclusions: In a NICE Interaction Management 4.1 site with Sophos antivirus deployed, before beginning to use NDM to install or update the site, add psexec.exe to Exclusions list. Otherwise, it can cause a problem with running NDM Agents.
- (http://www.sophos.com/en-us//threat-center/threat-analyses/adware-and-puas/PsExec.aspx).

NICE Products and Antivirus Certification Matrices

Note: Third-Party Software is approved per NICE product for all operating systems certified by NICE.

NOTE: Third-Party Software is approved per NICE product for all operating systems certified by NICE.

NOTE: Third-Party Software is approved per NICE product for all operating systems certified by NICE.

Table 12-1: NICE Products and Antivirus Certifications Matrix - NICE Interaction Management 4.1

NICE Products	ucts SEP McA		McAfee			Trend Micro		Sophos		
	11.00	12.0 - 12.1.6	ePO 4.0/4.5/4.6	ePO 5.1 / 5.1.1/ 5.3.0	8.7/8.8	OfficeScan 10/10.5/10.6	OfficeScan 11/XG	9.5/9.7	10/10.2/10.3 - 10.3.15/10.6.3	
TDM Logger	Y	Y	Y	Y	Y	Y	Y	Y	Υ	
VoIP Logger	Y	Y	Y	Y	Y	Y	Y	Y	Υ	
Interaction Server	Y	Y	Y	Y	Y	Y	Y	Y	Υ	
NiceScreen Logger	Y	Y	Y	Y	Y	Y	Y	Y	Υ	
Playback Server / Telephony Services Server (incl. NICE Feedback)	Y	Y	Y	Υ	Y	Y	Υ	Y	Y	
NMS	Y	Y	Y	Y	Y	Y	Y	Y	Υ	

NICE Products and Antivirus Certification Matrices

NICE Products	E Products SEP		McAfee	McAfee			Trend Micro Sophos		
	11.00	12.0 - 12.1.6	ePO 4.0/4.5/4.6	ePO 5.1 / 5.1.1/ 5.3.0	8.7/8.8	OfficeScan 10/10.5/10.6	OfficeScan 11/XG	9.5/9.7	10/10.2/10.3 - 10.3.15/10.6.3
Storage Center	Y	Y	Υ	Y	Y	Y	Y	Y	Υ
Media Library	Y	Y	Y	Y	Y	Y	Y	Y	Y
Application Server	Y	Y	Y	Y	Y	Y	Y	Y	Y
Audio Analysis Server	Y	Y	Y	Y	Y	Y	Y	Y	Υ
ScreenSense Server	Y	Y	Y	Y	Y	Y	Y	Y	Y
Reporter	Y	Y	Y	Y	Y	Y	Y	Y	Y
Database Server	Y	Y	Y	Y	Y	Y	Y	Y	Y

Table 12-1: NICE Products and Antivirus Certifications Matrix - NICE Interaction Management 4.1 (continued)

NICE Products and Antivirus Certification Matrices

NICE Products	SEP N		McAfee	McAfee				Sophos		
	11.00	12.0 - 12.1.6	ePO 4.0/4.5/4.6	ePO 5.1 / 5.1.1/ 5.3.0	8.7/8.8	OfficeScan 10/10.5/10.6	OfficeScan 11/XG	9.5/9.7	10/10.2/10.3 - 10.3.15/10.6.3	
Sentinel	Y	Y	Y	Y	Y	Y	Y	Y	Υ	
* In some cases SEP 12 can detect NICE's binaries as a potential security risk. For further details, see SEP on page 1.										

Table 12-1: NICE Products and Antivirus Certifications Matrix - NICE Interaction Management 4.1 (continued)

Table 12-2: NICE Products and Antivirus Certifications Matrix - NICE Engage Platform 6.x

NICE Products	SEP			McAfee			Trend Micro		Sophos	
	11.00	12	12.1- 12.1.6	8.7	8.8	ePO 5.1/ 5.3.0	10.6	11/XG	10	10.3- 10.3.15/10.6.3
TDM Logger	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
VoIP Logger	Y	Y	Y	Y	Y	Y	Y	Y	Y	Υ

NICE Products and Antivirus Certification Matrices

NICE Products	ICE Products SEP			McAfee		Trend Micro Sophos				
	11.00	12	12.1- 12.1.6	8.7	8.8	ePO 5.1/ 5.3.0	10.6	11/XG	10	10.3- 10.3.15/10.6.3
Interaction Server	Y	Υ	Y	Υ	Υ	Y	Y	Y	Y	Υ
NiceScreen Logger	Y	Y	Y	Υ	Υ	Y	Y	Y	Y	Υ
Playback Server / Telephony Services Server (incl. NICE Feedback)	Y	Y	Y	Y	Υ	Y	Y	Y	Y	Y
NMS	Y	Y	Y	Y	Υ	Y	Y	Y	Y	Υ
Storage Center	Y	Y	Y	Υ	Υ	Y	Y	Y	Y	Υ
Media Library	Y	Υ	Y	Υ	Υ	Y	Υ	Y	Y	Υ
Application Server	Y	Υ	Υ	Υ	Υ	Y	Υ	Y	Y	Υ
Audio Analysis Server	Y	Y	Υ	Y	Υ	Y	Y	Y	Y	Y

Table 12-2: NICE Products and Antivirus Certifications Matrix - NICE Engage Platform 6.x (continued)

NICE Products and Antivirus Certification Matrices

NICE Products	SEP			McAfee			Trend Micro		Sophos	
	11.00	12	12.1- 12.1.6	8.7	8.8	ePO 5.1/ 5.3.0	10.6	11/XG	10	10.3- 10.3.15/10.6.3
ScreenSense Server	Υ	Υ	Y	Y	Υ	Y	Y	Υ	Y	Υ
Reporter	Υ	Υ	Y	Y	Υ	Y	Y	Υ	Y	Υ
Database Server	Y	Y	Y	Y	Υ	Y	Y	Y	Y	Υ
Sentinel	Y	Y	Y	Y	Υ	Y	Y	Y	Y	Υ
RTA - Enrollment Engine	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
RTA - RTVA, Authentication Engine	Y	Y	Y	Υ	Υ	Y	Υ	Y	Y	Υ

Table 12-2: NICE Products and Antivirus Certifications Matrix - NICE Engage Platform 6.x (continued)

NICE Products and Antivirus Certification Matrices

NICE Products	SEP			McAfee	Trend Micro		Sophos			
	11.00	12	12.1- 12.1.6	8.7	8.8	ePO 5.1/ 5.3.0	10.6	11/XG	10	10.3- 10.3.15/10.6.3
RTA - Authentication and Fraud Engine (Nuance) audio folder	Y	Υ	Υ	Y	Y	Y	Υ	Υ	Y	Y
RTA - RTIM	Y	Y	Y	Y	Y	Y	Y	Y	Y	Υ
RTA - ITIC	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Advanced Interaction Recorder	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
* In some cases SEP 12 can detect NICE's binaries as a potential security risk. For further details, see SEP on page 1.										

Table 12-2: NICE Products and Antivirus Certifications Matrix - NICE Engage Platform 6.x (continued)

McAfee

McAfee

McAfee ePO 3.5 and McAfee Antivirus 8.0 Certification for NICE 8.80

Product	Antivirus Certification
Release	
Synopsis	This section displays the procedures for McAfee ePO 3.5 and McAfee Antivirus 8.0 Certification for NICE 8.80.

NOTE:

*Nice Perform certification includes the following components: Interaction Server, PBS, SNMP Manager, Storage Center, Application Server, Audio Analysis

Purpose and Scope

This section summarizes the certification that was performed for NICE 8.80 recording system when using McAfee 8.0 and EPO server 3.5 clients.

NICE Servers

Table 12-3: NICE Servers

Server	NICE Version	CPU	RAM	OS + SP
NiceLog	8.80 SP8	233MHz	256MB	Windows 2000 Professional + SP4
CLS	8.80 (Core SP3, Integrations SP3)	2.4 GHz	512MB	Windows 2000 Server + SP4
Storage Center	8.80 SP5	800MHz	256MB	Windows 2000 Professional + SP4
Web Server	8.80 SP6	2.4 GHz	1GB	Windows 2000 Server + SP4

Test Description

Running the EPO Tasks

- 1. When the Logger is in resting state no calls recorded and no calls are archived, start EPO task, then run recording system.
- 2. When the Logger is under high load (all calls are recorded and archived), then begin with EPO tasks.

In both scenarios, specify the EPO utilization that will keep all recording and archiving functions with no errors and/or exceptions.
Table 12-4: EPO Tasks

Test	Test Description	Test Results	Performance for CPU and memory
Pre-EPO tests	Verify that in the specified system load, all calls are being recorded with no errors/exceptions, prior to EPO task run	SC archiving with default 10 connections caused high CommManager CPU. As a result, Logger failed to record by CLS commands, and many calls entered with exceptions (#8, 12 and 17) To enable good Logger recording performance, we reduced the amount of SC connections to 3.	 Per connection, 2000- 3000 files are being archived (per hour) SC archiving only, takes about 30-40% CommManager CPU on the Logger

Test	Test Description	Test Results	Performance for CPU and memory
Simulate recordings problem	During system running with its specified performance, Running the EPO tasks in 100% utilization	When running the EPO tasks in 100% utilization the Logger did not record any call, mostly with exception 8 ("unspecified error in Logger")	 Scan32 takes almost 100% CPU CommManager is almost on 0% CPU All calls entered with exception 8.
Reduce EPO Utilization to 30%	When running the ePO tasks on 30% utilization the logger continued to function with no errors.	All calls are inserted to DB with Recorded "Yes" and Status "OK Voice is archived to Storage Center.	 Storage Center archiving tasks takes about 30% CommManager CPU in the Logger. CLS pause-resume recording commands takes about 30% CommManager CPU in the Logger. Running the EPO tasks for an hour – all calls were recorded in status OK

Test	Test Description	Test Results	Performance for CPU and memory
Run EPO Utilization 50%	Set CommManager service from Task Manager to "Real Time" priority Run same test as #3, but with higher (50%) utilization	We expect to conclude if the process Priority definition is effective for the CommManager, in a way it keeps its required CPU, while EPO server tasks are not harmed (=not display error or stop running)	 All calls were recorded with status OK Logger runs with high CPU (not recommended in the long term)
Functionality test on McAfee servers	Certify functional actions with servers that are installed with McAfee 8.0	Passed successfully, to review the tests and actions response time. See attached test report (separate)	

Table 12-4: EPO Tasks (continued)

Remarks and Notes

1. DAT update does not have Utilization setting option, it does not affect the performance; the most consuming-resources task is the Scan.

- 2. Enforcing the EPO task caused after a few hours of high load, the logger's CPU time rises dramatically to around 95%. At this point the entire machine hangs, the logger doesn't start unless the McAfee is disabled. When disabling the McAfee the logger manages to start, however the CPU of the machine remains very high.
- 3. From this, we conclude that it is recommended to set the CommManager priority to Real Time in the Task Manager.

Conclusions

The parameters affecting recording performance and recommendations:

- a. CommManager priority: It is highly recommended to set the ComMngr process of the logger at the highest priority (real-time), to prevent the process of the EPO taking all of the CPU and thus preventing the logger from running during the execution of the ePO tasks. (Note: Priority reverts back to Normal after machine restart).
- b. The number of open connections from the Storage Center to the logger; It is recommended to lower the number of connections from the default 10, to decrease the load on the logger. We found that 3 was the optimal solution for the above mentioned settings. With more open connections, about 50% of the calls were not recorded (regardless EPO) due to exception 8.
- c. The Virus Scan task should run in utilization lower than 100% to enable the logger to keep functioning during the scan. In our settings it was found that 30% utilization didn't interrupt the logger's performance. We do not recommend a higher utilization than this.

NOTE:

VoIP and PCI loggers running on Windows 2000 are approved to use ePO 3.5. This is based on the following facts:

- PCI Loggers and VoIP loggers use a stronger CPU
- Certification for Windows 2000 ISA based loggers has been completed.

Troubleshooting

Problem

When updating the McAfee antivirus software, the logger capture card stops receiving interactions, resulting in a Fatal error message.

Solution

➡ To troubleshoot, do the following

1. Navigate to **Start**, and then select **Run**. The Run window appears.

Figure 12-3: Run Window



2. In the **Open** field, enter **regedit**, and click **OK**.

The Registry Editor appears.

<u>Elle Edic view Favorites Help</u>			
🖃 🚚 My Computer	Name	Туре	Data
HKEY_CLASSES_ROOT	(Default)	REG_SZ	(value not set)
	🔄 🌉 Data Path	REG_SZ	C:\Documents and Settings\All Users\Application Data\
	🛃 Event Path	REG_SZ	C:\Documents and Settings\All Users\Application Data\
🕀 🧰 HARDWARE	Extended Path	REG_SZ	C:\Program Files\McAfee\Common Framework;C:\Docu
🕀 🧰 SAM	Installed Path	REG_SZ	C:\Program Files\McAfee\Common Framework
SECURITY	ab IPAddress	REG SZ	172.21.27.45
		REG SZ	20100619171102
E I CO7H5Y	ab STI	REG SZ	
	TC AttributeColl	REG DWORD	0x00000000 (0)
		REG_SZ	C:\Program Files\McAfee\Common Framework\FrmInst
	ab Version	REG SZ	3.6.0.453
🕀 🦳 Microsoft			
Hozilia			
E Shared Comp			

Figure 12-4: Registry Editor Window

3. Navigate to HKEY_LOCAL_MACHINE > SOFTWARE > Network Associates > TVD > Shared Components > Framework.

B My Computer	Name	Туре		Data	
My Computer HKEY_CLASSES_ROOT HKEY_CLASSES_ROOT HKEY_LOCAL_MACHINE HKEY_LOCAL_MACHINE HARDWARE SAM SOFTWARE SOFTWARE CO7RSY Classes CO7RSY Classes CORts Corrsy Classes CORts Macline McAfee McAfee McAfee McAfee McAfee Mcalla Mozilla Mozilla Mozilla Mozilla Mozilla Mozilla Mozilla	Name (Default) Data Path Event Path Evended Path Installed Path PAddress LastUpdateCheck STI Uninstall Tool Version	Type REG_SZ REG_SZ REG_SZ REG_SZ REG_SZ REG_SZ REG_SZ REG_SZ REG_SZ REG_SZ REG_SZ	Key String 1 Binary	Data (value not set) C:[Documents and Settings],All U C:[Documents and Settings],All U C:[Program Files]/McAfee]Commo 172.21.27.45 20100619171102 0x00000000 (0) C:[Program Files]/McAfee]Commo 3.6.0.453	sers\Application Data\ sers\Application Data\ n Framework;C:\Docu n Framework n Framework\FrmInst

Figure 12-5: New Menu- DWORD Value

4. In the right-hand pane, right-click in the empty space, and select **New > DWORD Value**. A new registry key appears.

Figure 12-6: Registry Editor Window

gir B	Registry	y Editor			_ 🗆 🗵
File	Edit	View Favorites Help			
		🕀 🚞 AFPL Ghostscript	 Name 	Туре	Data
L .		🗈 🦲 Babylon)(De	fault) REG_SZ	(value not set)
L .		🖲 🧰 C07ft5Y	26 No.	Value #1 REG DWORD	0x00000000 (0)
		Classes	~		
		Clients			

5. Change the name to LowerWorkingThreadPriority, and press Enter. The new file name LowerWorkingThreadPriority is reflected.



6. Right-click LowerWorkingThreadPriority, and select Modify. The Edit DWORD Value window appears.

Figure 12-8: Edit DWORD Value Window

Edit DWORD Value		? ×
Value name: LowerWorkingThreadPriority	,	
Value data:	Base Hexadecimal Decimal	
	OK Can	cel

7. In the Value data field, enter 1, and click OK.

McAfee ePO 3.5 and McAfee Antivirus 8.0 Certification for NICE 8.80

- 8. Exit the registry.
- 9. Restart the McAfee Framework Service:
 - a. Navigate to **Start** > **Run**.
 - b. Enter Services.msc.
 - c. Click **OK**.

The McAfee Framework Service window appears.

→ III 🗗 🛃	 B Services (Local) 					
iervices (Local)	Services (Local)					
ervices (Local)	🐁 Services (Local)					
		Name 4	Description	Statue	Startup Tupa	
	McAfee Framework Service	Name A	Microsoft	Jocacus	Manual	Logal System
	Stop the service	Alexter	Microsoft		Disabled	Local Service
	Restart the service	Realization Experience Lealure Service	Diversion of the	Stortod	Automotic	Local Suctor
		Application Experience Lookup Service	Process ap	Starteu	Macunatic	Local System
	Description:	Application Layer Gateway Service	Provides S		Manual	Local Suctor
	Shared component framework for	Application Management	Processes I		Manual	Lucai System
	McAfee products	ADPINET State Service	Provides S	Charles	Mariuar	Network 5
	1	We part was distant to a few	Enables (n	Started	Automatic	Local System
	1	Reserved and anteiligent Transfer Service	Transfers r	Started	Automatic	Local System
	1		Enables Cli		Disabled	Local System
		A company and the second secon	Supports S	Started	Automatic	Local System
		ABLE System Application	Manages t	Started	Manual	Local System
	1	and the second s	Maintains a	Started	Automatic	Local System
	1	* Cryptographic Services	Provides th	Started	Automatic	Local System
	1	COM Server Process Launcher	Provides la	Started	Automatic	Local System
	1	W DHCP Client	Registers a	Started	Automatic	Network S
	1	System 👷 Distributed File System	Integrates		Manual	Local System
	1	Signal Client Tracking Client	Enables cli	Started	Automatic	Local System
		Server 20 Distributed Link Tracking Server	Enables th		Disabled	Local System
	1	Signal Coordinator	Coordinate	Started	Automatic	Network S
		🖏 DNS Client	Resolves a	Started	Automatic	Network S
	1	Service	Collects, st	Started	Automatic	Local System
		🖏 Event Log	Enables ev	Started	Automatic	Local System
	1	🎇 File Replication	Allows files		Manual	Local System
	1	🍓 Help and Support	Enables He	Started	Automatic	Local System
	1	🍓 HTTP SSL	This servic		Manual	Local System
	1	🍓 Human Interface Device Access	Enables ge		Disabled	Local System
	1	🎇 IMAPI CD-Burning COM Service	Manages C		Disabled	Local System
	1	🎇 Indexing Service	Indexes co		Disabled	Local System
	1	🤹 Intersite Messaging	Enables me		Disabled	Local System
	1	IPSEC Services	Provides e	Started	Automatic	Local System
	1	Kerberos Key Distribution Center	On domain		Disabled	Local System
	1	License Logging	Monitors a		Disabled	Network S.
	1	LiveUpdate	LiveUpdate		Manual	Local System
	1	Logical Disk Manager	Detects an	Started	Automatic	Local System
	1	Logical Disk Manager Administrative Service	Configures		Manual	Local System
	1	McAfee Framework Service	Shared co	Started	Automatic	Local System

Figure 12-9: McAfee Framework Service Window

There is no need to restart the logger in the above process.

For more information, see https://kc.mcafee.com/corporate/index?page=content&id=KB53690&pmv=print.

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Remote Connection to Customers

This section includes requirements and recommendations for NICE to connect remotely to customers.

NICE Requirements

NICE needs a remote connection in place from the first days of the project. The connection needs to have both high bandwidth and low latency. In addition, it is highly recommended to use a dedicated machine for this connection.

NICE Recommendations

NICE suggests these methods to connect remotely, in order of preference. The customer needs to let the NICE Project Manager know of any site requirements:

- 1. Team Viewer Based on availability. Team Viewer requires licensing.
- 2. VPN (on VSphere) Setup can take from four to six weeks to arrange access through VPN on VSphere. This option enables a remote connection even when the customer is not present on the other side.
- 3. WebEx In order to connect through WebEx, the customer must open the Webex connection on their side. Also, playback is not always possible through WebEx. This means that the customer needs to listen to the recording, or download the files locally to send them to NICE.

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А

Discontinued Technical Notes

This appendix lists the Technical Notes that were discontinued and whose information is now included in this document.

Table A-1:
List of Discontinued Technical Notes

Technical Note Number	Technical Note Title
TN0509	NICE Software Components Running on Windows XP Machines
TN0513	McAfee ePO 3.5 – Configuration Guide For Nice Products
TN0528	Windows Server 2003 Appliance Notes
TN0538	Windows Server 2003 Service Pack 1 Integration with NICE Servers
TN0539	Anti Virus
TN0549	Symantec pcAnywhere 11 compatibility
TN0552	SQL Server 2000 SP4
TN0555	Anti Virus Certifications for NICE Products
TN0564	Anti Virus Certifications for NICE Products III
TN0569	Windows 2000 Update Rollup 1 for Service Pack 4
TN0577	McAfee VirusScan products
TN0578	Norton Anti-Virus products
TN0616	ScreenAgent Configuration in Citrix Published Application Environment

Technical Note Number	Technical Note Title
TN0628	How to configure Voice and Screen best performance on Citrix
TN0640	McAfee ePO 3.5 and McAfee Antivirus 8.0 Certification for NICE 8.80
TN0642	Remote Desktop - Remote Connection Console Mode
TN0651	DBM Error on Loggers due to MS Security Patch KB921883
TN0656	PC Anywhere 12 certification in 8.90 NICE systems
TN0672	Compatibility of NICE Web Applications with Internet Explorer 7
TN0676	Fixing MSDTC in a Multi Site Environment
TN0680	NICE Support for Microsoft .NET Framework 2.0.
TN0688	NICE Support for Microsoft .NET Framework 2.0Playback Organizer
TN0698	NICE products certified to work with pcAnywhere 12
TN0701	Remote Connection Certifications for NICE Products
TN0705	MS SQL Server for NICE Perform Release 3
TN0719	Windows Server 2003 Service Pack 2 (SP2) Support
TN0736	.Net 3.0 Support
TN0776	RDP (Remote Desktop Protocol) - Delay Solution
TN0790	Incompatibility Citrix hotfix
TN0806	NICE Product Support for MS Windows XP Service Pack 3
TN0815	Resolving Citrix Connection Issues Related to ScreenSense
TN0820	.NET Framework Support for NP 3.1
TN0838	Interactions Center workaround for .NET 3.5

Table A-1: List of Discontinued Technical Notes (continued)

Technical Note Number	Technical Note Title
TN0867	Compatibility of NICE Web Applications with Internet Explorer 8
TN0889	Installing NICE Perform 3.2 on Windows 7
TN0890	Installing NICE Perform 3.1 on Windows 7
TN0897	Microsoft Software Service Packs Certified by NICE Systems

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Using Real-Time Solutions with App-V

This appendix lists the limitations and rules for working with Real-Time Solutions in an App-V environment.

Contents

Working with the App-V System	
App-V Limitations when Working With Real-Time Solutions	

Working with the App-V System

The App-V Sequencer (Microsoft Application Virtualization Sequencer) is a wizard-based tool that administrators use to transform traditional applications into virtual applications. The Sequencer produces an application package that contains several files. These files include a sequenced application (.sft) file, one or more Open Software Description (.osd) application configuration files, one or more icon (.ico) files, a manifest xml file that can be used to distribute sequenced applications with electronic software delivery (ESD) systems, and a project (.sprj) file. The Sequencer can also generate a Windows Installer file (.msi) that can be deployed to clients configured for standalone operation. All files are stored in a shared content folder on the Management and/or Streaming Server and are used by the App-V Client to access and run sequenced applications.

The App-V Management Server (Microsoft Application Virtualization Streaming Server) has streaming capabilities that including active/package upgrade without Active Directory or SQL Server requirements. However, it does not have a publishing service, licensing, or metering capabilities. The publishing service of the App-V Management Server is used in conjunction with the App-V Streaming Server, so the Management Server configures the application but the Streaming Server delivers it (usually in branch offices).

App-V Limitations when Working With Real-Time Solutions

In App-V environments a bubble is an isolated environment streamed from the App-V server to the App-V client. On the client machine the application does not have to be installed.

When streaming the Real-Time Client to the App-V client, both clients must be in the same bubble as the application(s) you want to interact with.

If the Real-Time Client needs to interact with two App-V applications from separate bubbles, you must install the Real-Time Client on each bubble and interact using C2C (client to client) communication between the Real-Time Clients. In his case you must instal another Real-Time Client on the local computer and interact with the streamed clients using C2C.

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С

Using Real-Time Solutions with Citrix Streaming

This appendix describes the limitations and rules for working with Real-Time Solutions with Citrix streaming.

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Citrix Streaming Limitations when Working With Real-Time Solutions	277

Working with Citrix Streaming

A streamed application in Citrix resides in a separate memory space and environment and is delivered to the Citrix client without installing an application on the client side. The streamed application is located in a controlled isolated environment (sandbox).

To set a package for Citrix application streaming so that the Real-Time Client can capture other streamed applications both applications must run inside the same sandbox. The citrix profiles must be installed on a separate dedicated machine.

Citrix Streaming Limitations when Working With Real-Time Solutions

The Real-Time Client must be part of the same streaming package as the monitored applications. Another option is to use Inter-Isolation communication for Real-Time Client interaction with other streamed packages. You can install the Real-Time Client on the client computer to interact with one or more Citrix streamed applications.

Make sure of the following when setting up the Citrix Profiler:

- In the Support Legacy Offline Plug-ins page, select Enable support for 6.0 Offline Plug-ins.
- In the Select Install Page, select Advanced Install.
- In the Set up Inter-Isolation Communication page make sure to enter the path to the Profiler Package if you want to link between the profile package for the Real-Time client and other streamed applications.
- In the Select Install Method page, select **Run install program or command line script**.
- In the Choose Installer page, browse to or type in the path to the Process Optiization Client.msi.

When the Profiler is finished and the Citrix package is ready, make sure of the following:

- For a streamed Real-Time Client package, open the Target Properties configuration window and clear **Enable pre-launch analysis**.
- The remaining Target Properties rules should remain with their default values.

NOTE: The Real-Time Client can interact with two streamed applications (each from a different server) only when it is installed locally.