OpenEdge® 11 Platform & Product Availability Guide

Current version: **September 5, 2019**
Previous version: **August 20, 2019**

Introduction

The OpenEdge® Platform & Product Availability Guide reflects the current commercial releases for Progress Software's OpenEdge 11 products. This document does NOT address unannounced future product release plans. The information contained in this document is updated on a regular basis and is subject to change without notice.

For platform and product information relating to earlier Progress/OpenEdge releases please go to the Platform Availability Guide homepage on Progress Communities:

https://community.progress.com/technicalusers/w/openedgegeneral/1501.openedge-life cycle-and-platform-availability-guide.aspx

---

Update Summary (new content indicated by red text within the document):

1. Removed obsolete description of OpenEdge 11 Cloud certification

---

©2019 Progress Software Corporation. All Rights Reserved.

Contents

OpenEdge 11 Platforms ***3***
HP-UX PA-RISC Certification 6
Java 8 Runtime Certification 6

OpenEdge Cloud Certification Policy (effective February 2018) ***7***

Product Life Cycle Status and Schedule ***7***

OpenEdge 11 Product Availability by Platform ***8***
Notes on 64-bit Microsoft Windows GUI Support on OpenEdge 9

Progress Developer Studio (PDS) for OpenEdge ***10***

Tomcat Web Server ***11***
As an OpenEdge Web Server 11
With Progress Application Server (PAS) for OpenEdge 11

Upcoming OpenEdge Certifications ***11***

Upcoming Platform changes ***12***

Windows Server 2008 R2 Retirement (Effective OpenEdge 12.0) ***12***

Windows XP and Windows 2003 Retirement (Effective OpenEdge 11.7) ***12***

Progress OpenEdge Dynamics Support (Effective January 2017) ***12***

OpenEdge ODBC DataServer (Effective January 2016) ***12***

Tomcat Update Policy (Effective January 2017) ***13***

OpenEdge Java Certification Policy (Effective January 2018) ***13***

OpenEdge Pro2 Product Availability by Platform ***14***

Notes on Platforms and Products ***15***
OS Service Pack / Maintenance Pack Support 15
Notes on Windows 10 20
Supporting Windows Client Operating Systems (Effective June 2019) 20
Notes on Linux 21

OpenEdge Feature / Functionality Obsolescence Life Cycle ***22***
Deprecated Features and Functionality List 24
De-Supported Features and Functionality List 25

©2019 Progress Software Corporation. All Rights Reserved.

OpenEdge 11 Platforms

OS Vendor	CPU Architecture	Port Code	JDK*	Compiler	Certification Platforms (Version numbers are the minimum certified)	OpenEdge 32-bit	OpenEdge 64-bit
HP	HP-UX 11i v3 64-bit (ITANIUM)	0040	1.8.0_07 (OE11.7) 1.7.0_08** 1.6.0.07(OE 11.0&11.1)	aCC 6.28(OE11.7) aCC 6.25	HPUX 11i v3 (Build platform)		✓
Microsoft	Windows 2008 R2 32bit (INTEL/AMD)	0031	1.8.0_101 (OE11.7) 1.7.0_45** 1.6.0_27 (OE11.0 & 11.1)	Visual Studio 2015 (OE11.7) Visual Studio 2010	Windows XP Professional SP3 (Retires effective 11.7) ±±	✓	
					Windows 7	✓	
					Windows 2003 R2 (Retires effective 11.7) ±±	✓	
					Windows Server 2008 R2	(K)	
					Windows 8 (OpenEdge 11.1 and higher)	(K)	
					Windows Server 2012 (OpenEdge 11.1 and higher)	(K)	
					Windows 8.1 (OpenEdge 11.3.2 and higher) ***	✓	
					Windows Embedded 7 (OpenEdge 11.4 and higher)	(P)	
					Windows Embedded 8 (OpenEdge 11.4 and higher)	(P)	
					Windows Embedded 8.1 (OpenEdge 11.4 and higher)	(P)	
					Windows 10 (OE 11.3.3, OE11.4, OE11.5.1 and OE11.6 and higher) ♦	✓	
	Windows 2008 R2 64bit (INTEL/AMD)	0033	1.8.0_101 (OE11.7) 1.7.0_45** 1.6.0_27_x64 (OE11.0 & 11.1)	Visual Studio 2015 (OE11.7) Visual Studio 2010	Windows Server 2008 R2 (Build platform)	(K)	✓
					Windows 8 (OpenEdge 11.1 and higher)	(K)	✓
					Windows Server 2012 (OpenEdge 11.1 and higher)	(K)	✓
					Windows 8.1 (OpenEdge 11.3.2 and higher) ***	(K)	✓
					Windows Server 2012 R2 (OpenEdge 11.3.2 and higher) ***	(K)	✓
					Windows Server 2016 (OpenEdge 11.6.3 and higher) ~~ØØ~~	(K)	✓
					Windows Server 2019 (OpenEdge 11.7.4 and higher)	(K)	✓
					Windows Embedded 7 (OpenEdge 11.4 and higher)	(P)	(P)
					Windows Embedded 8 (OpenEdge 11.4 and higher)	(P)	(P)
					Windows Embedded 8.1 (OpenEdge 11.4 and higher)	(P)	(P)
					Windows 10 (OE 11.3.3, OE11.4, OE11.5.1 and OE11.6 and higher) ♦	(K)	✓
Sun	Solaris 10 64Bit (SPARC)	0039	1.8.0_101 (OE11.7) 1.7.0_45** 1.6.0_27 (OE11.0 & 11.1)	Sun Studio 12.3 (OE11.7)	Solaris 10 (Build platform)		✓
					Solaris 11 (OpenEdge 11.1 and higher)		✓

©2019 Progress Software Corporation. All Rights Reserved.

OS Vendor	CPU Architecture	Port Code	JDK*	Compiler	Certification Platforms (Version numbers are the minimum certified)	OpenEdge 32-bit	OpenEdge 64-bit
				Sun Studio 12.2			
IBM	AIX 5.3 64Bit (POWER)	0037	1.8.0_sr3_fp10 (OE11.7) 1.7.0_sr6** 1.6.0_20071205_64 (OE 11.0 & 11.1)	XL C/C++ 13.01 (OE 11.7) XL C/C++ 11.0	AIX 5.3 (Build platform for OpenEdge 11.0 only AIX 5.3 dropped for OpenEdge 11.1 and higher)		✓
					AIX 6.1 (Build platform for OpenEdge 11.1 and higher) §§		✓
					AIX 7.1 (Certified on OpenEdge 11.2 and higher) §§		✓
					AIX 7.2 (Certified on OpenEdge 11.7.5 and higher) §§		✓
Linux	Linux 5.4 32Bit § (INTEL) 11.0 to 11.6.x	0034	1.7.0_45** 1.6.0_27 (OE 11.0 & 11.1)	GCC 4.1.2	SUSE Enterprise Server 11	✓	
					Oracle Linux 5.4	✓	
					CentOS 5.4 (Build Platform)	✓	
					CentOS 6.1	✓	
					Red Hat 5.4	✓	
					RedHat 6†‡	✓	
	Linux 5.4 64Bit (INTEL) 11.0 to 11.6.x	0043	1.7.0_45** 1.6.0_27 (OE11.0 & 11.1)	GCC 4.1.2	SUSE Enterprise Server 11	✓	✓
					Oracle Linux 5.4	✓	✓
					CentOS 5.4 (Build platform)	✓	✓
					CentOS 6.1	✓	✓
					Red Hat 5.4	✓	✓
					Red Hat 6.1‡	✓	✓
					Red Hat 6.3‡	✓	✓
					Red Hat 7.0 (64-bit) **φφ**	✓	✓
					Ubuntu 12.04.4 LTS 64-bit (certified for OpenEdge11.3.2 and higher) ¥¥	✓	✓
					Ubuntu 16.04 LTS 64-bit (certified for OpenEdge11.6.3 and higher)	✓	✓
					SUSE 12 (64-bit) ╬	✓	✓
					CentOS 7 (64-bit) φφ	✓	✓
	Linux 6.6 64Bit (INTEL) 11.7 onward	0043	1.8.0_101 (OE11.7)	GCC 4.4.7 (OE 11.7)	CentOS 6.6 (Build platform)		✓
					Red Hat 7 (64-bit) **φφ**		✓
					Red Hat 8 (certified for OpenEdge 11.7.5 and higher)		✓
					CentOS 7 (64-bit) φφ		✓
					Ubuntu 16.04 LTS 64-bit		✓

©2019 Progress Software Corporation. All Rights Reserved.

						OpenEdge	
OS Vendor	**CPU Architecture**	**Port Code**	**JDK***	**Compiler**	**Certification Platforms** (Version numbers are the minimum certified)	**32-bit**	**64-bit**
					Ubuntu 18.04 LTS 64-bit***		✓
					SUSE Enterprise Server 11 SP3		✓
					SUSE Enterprise Server 15		✓
					SUSE 12 (64-bit) ╬		✓

*Beginning with OpenEdge 11.1, the JDK is embedded in every platform. Previously it was embedded only in Windows and Solaris.

†To run the 32-bit OpenEdge product on a Red Hat Enterprise Linux 6.x operating system, you must first install the libstdc++-4.4.4-13.el6.i686.rpm RPM, which can be found on the Red Hat installation media.

‡If using IPV6 with OpenEdge on a Red Hat Enterprise Linux 6.x operating system, you will need to add -agenthost 0::0 to the agent connection string (srvrStartupParam) in the ubroker.properties file. This forces a specific Application Server and all of its agents to communicate only with IPV6. If you have a mixed environment of IPV4 and IPV6, you will need to have dedicated Application Servers for each protocol version.

**Java 1.7 is certified for OpenEdge 11.2 to 11.6 with the exception of PDS for OpenEdge, which is certified for Java 1.7 on OpenEdge 11.3 and higher. For OpenEdge 11.0 and 11.1, Java 1.6 is certified. For the HP PA-RISC platform only, Java 1.7 is unavailable. Note that for OpenEdge 11.2, the one exception to Java 1.7 certification is Progress Developer Studio for OpenEdge (PDS for OpenEdge). PDS for OpenEdge for OpenEdge 11.2 is still certified only for Java 1.6.

*** There were a couple of issues observed during the certifications of OpenEdge 11.3.2 32-bit / 64-bit on Windows 8.1 and Windows Server 2012 R2. Please refer to these Knowledge Base (KB) articles for corresponding workarounds.

http://knowledgebase.progress.com/articles/Article/000050181
http://knowledgebase.progress.com/articles/Article/000050182

¥¥ There were a couple of issues observed during the certifications of OpenEdge 11.3.2 32-bit / 64-bit on Ubuntu 12.04.4 LTS 64-bit. Please refer to this KB article for corresponding workarounds.

http://knowledgebase.progress.com/articles/Article/000055418

φφ There were a couple of issues observed during the certifications of OpenEdge 11.3.2 and OpenEdge 11.4 32-bit / 64-bit on RHEL 7.0 and 64-bit on CentOS 7.0. Please refer to this KB article for corresponding workarounds.

http://knowledgebase.progress.com/articles/Article/000056050

♦ There were a couple of issues observed during the certifications of OpenEdge 10.2B08, OE11.3.3, OE11.4, OE11.5.1 and OE11.6 on Windows 10 32/64-bit. Please refer to this KB article for corresponding workarounds.
https://knowledgebase.progress.com/articles/Article/Certification-for-Windows-10-the-Creators-Update-and-future-Feature-Updates

§§ There were a couple of issues observed during the certifications of OpenEdge 10.2B08, OE11.3.3, OE11.5.1 and OE11.6.2 on AIX6.1/7.1 running on Power8. Please refer to this KB article for corresponding workarounds.

http://knowledgebase.progress.com/articles/Article/Does-OpenEdge-support-AIX-on-Power8

©2019 Progress Software Corporation. All Rights Reserved.

ƨƨ There were a couple of issues observed during the certifications of OpenEdge OE11.6.3 on Windows 2016 64-bit. Please refer to this KB article for corresponding workarounds.
http://knowledgebase.progress.com/articles/Article/Windows-Server-2016-64-bit-certification-supportability

§ OpenEdge on Linux 32-bit is discontinued from OE11.7 onwards.

±± Windows XP and Windows 2003 are not supported from OE11.7 onwards. The OE11.7 platform changes/updates such as Java 1.8.0_101 and VS2015 are not applicable on these platforms. Please refer to the "Windows XP and Windows 2003 Retirement" section.
http://knowledgebase.progress.com/articles/Article/Windows-Server-2016-64-bit-certification-supportability

╬ There were a couple of issues observed during the certifications of OpenEdge OE11.6.3 on SUSE 12 64-bit. Please refer to this KB article for corresponding workarounds.
https://knowledgebase.progress.com/articles/Article/OpenEdge-certification-support-on-SUSE-12-Operating-System?

*** There were a couple of issues observed during the certifications of OpenEdge 11.7.3 32-bit / 64-bit on Ubuntu 18.04.4 LTS 64-bit. Please refer to this KB article for corresponding workarounds.
http://knowledgebase.progress.com/articles/Article/000055418

HP-UX PA-RISC Certification

The following platform information is only applicable for OpenEdge 11.0, OpenEdge 11.1 and OpenEdge 11.2 on HP-UX PA-RISC:

						OpenEdge	
OS Vendor	**CPU Architecture**	**Port Code**	**JDK***	**Compiler**	**Certification Platforms** (Version numbers are the minimum certified)	**32-bit**	**64-bit**
HP	HP-UX 11iv3 64Bit (PA-RISC)	0036	1.6.0.07**	aCC 3.90	HPUX 11i v3 (Build platform)		✓˚

˚Support for the HP PA-RISC platform is discontinued beginning with OpenEdge 11.3. This de-support impacts only OpenEdge 11.3 and higher. Support for HP PA-RISC will continue on all prior releases where it already exists, including OpenEdge 10.x, OpenEdge 11.0, OpenEdge 11.1, and OpenEdge 11.2.

Java 8 Runtime Certification

Java 8 Runtime is supported on all OpenEdge 11.6 supported platforms. Please refer to the below kbase article for the supported version details and other important information.
http://knowledgebase.progress.com/articles/Article/Does-OpenEdge-Support-Java8-Runtime-for-OE11-6

The table below lists the OpenJDK 8 versions supported by OpenEdge.

OpenEdge	Platform	Adopt OpenJDK Version
11.7.4 64 Bit	Windows	1.8.0_181 (64 Bit)

©2019 Progress Software Corporation. All Rights Reserved.

11.7.4 32 Bit	Windows	1.8.0_181 (32 Bit)
11.7.4 64 Bit	Solaris 10	1.8.0_202 (64 Bit)
11.7.4 64 Bit	Linux 6.6	1.8.0_202 (64 Bit)

There were a couple of issues observed during the certification of OpenEdge 11.7.4 with OpenJDK. Please refer to these KB articles for corresponding workarounds.

https://knowledgebase.progress.com/articles/Article/Error-during-hash-calculation-when-client-trying-to-establish-connection-to-Appserver
https://knowledgebase.progress.com/articles/Article/P174991

OpenEdge Cloud Certification Policy (effective February 2018)

NOTE: The following Cloud support policy and guidelines apply for all Active and Mature OpenEdge releases. Additional details about the OpenEdge Product life cycle can be obtained in the Product Life Cycle Guide located on Progress Communities. Please also note that this policy does NOT apply to any OpenEdge Retired versions. Cloud support for mature/retired releases of the OpenEdge platform and any additional Cloud certifications for OpenEdge mature releases is completely at the discretion of Progress Software.

We support all OpenEdge Active and Mature versions on supported versions of Operating Systems, irrespective of any cloud or hypervisor. In case of any issue, it should be ensured that it is not because of the changes / customization of the cloud platform or hypervisor, i.e. if the same issue is reproducible on a full OS installation then we would provide support in line with the customer's support agreement.

Progress reserves the right to update this policy from time to time and encourages you to refer to the current version of this document for the latest information on Progress Software's OpenEdge Cloud certification policy.

Product Life Cycle Status and Schedule

Product life cycle (Active, Mature, Retired) information can be found on Progress Community. Please follow this link to the latest information: Progress Community Availability and Life Cycle.

©2019 Progress Software Corporation. All Rights Reserved.

OpenEdge 11 Product Availability by Platform

Product Category	Product Name	Certification and key functionality details	MS Windows Intel		Linux x86 Intel		IBM AIX	Solaris	HP UX PA-RISC	HP-UX Itanium	Notes
			32 Bit	64 Bit	32 Bit	64 Bit	64 Bit	64 Bit	64 Bit	64 Bit	
OpenEdge Development	WebSpeed® Workshop		✓	✓[a]							
	4GL Development System		✓	✓[a]	✓	✓	✓	✓	✓	✓	
	Translation Manager		✓	✓[a]							
	Visual Translator		✓	✓[a]							
	OpenEdge Studio	Includes Progress Dynamics®	✓	✓[a]							
	OpenEdge Development Server		✓	✓	✓	✓	✓	✓	✓	✓	
	Progress Developer Studio		✓	✓[a]							
	OpenEdge Ultra Controls for .NET		✓								
OpenEdge Deployment	Client Networking		✓	✓[a]	✓	✓	✓	✓	✓	✓	
	Query/Results		✓	✓[a]	✓	✓	✓	✓	✓	✓	
	OpenEdge Personal RDBMS OpenEdge Workgroup RDBMS OpenEdge Enterprise RDBMS OpenEdge Advanced Enterprise Edition RDBMS (see note O)	OpenEdge RDBMS (Workgroup, Enterprise and Advanced Enterprise Edition) 4GL & SQL RDBMS support	✓	✓	✓	✓	✓	✓	✓	✓	
		OpenEdge RDBMS (Personal only) 4GL & SQL RDBMS support	✓	✓[a]	✓	✓	✓	✓	✓	✓	
		Support for SQL Stored Procedures	✓	✓	✓	✓	✓	✓	✓	✓	
		Native JDBC Drivers Type-4 v3.7	✓	✓	✓	✓	✓	✓	✓	✓	
		Native JDBC Drivers Type-4 v4.0	✓	✓	✓	✓	✓	✓	✓	✓	
		Native JDBC Drivers Type-5 v5.0 (Starting with OpenEdge 11.1)	✓	✓	✓	✓	✓	✓	✓	✓	
		Cluster Manager Integration (OpenEdge Enterprise RDBMS only)	✓	✓			✓	✓	✓	✓	A
		Native ODBC Drivers (embedded) v5.3	✓	✓	✓	✓	✓	✓	✓	✓	
		Native ODBC Driver (embedded) 7.0 (Starting with OpenEdge 11.1)	✓	✓	✓	✓	✓	✓	✓	✓	
	Transparent Data Encryption	OpenEdge Enterprise RDBMS OpenEdge Advanced Enterprise Edition RDBMS	✓	✓	✓	✓	✓	✓	✓	✓	
	Multi-tenant Tables	OpenEdge Enterprise RDBMS only OpenEdge Advanced Enterprise Edition RDBMS	✓	✓	✓	✓	✓	✓	✓	✓	M
	WebClient™		✓	✓							
	Table Partitioning		✓	✓	✓	✓	✓	✓		✓	M
	NameServer Load Balancer		✓	✓	✓	✓	✓	✓	✓	✓	
	OpenEdge DataServer for Oracle	Oracle 18c (18.3.0.0) (OpenEdge 11.7.5 and higher)	✓	✓	✓	✓	✓	✓			B
		Oracle 12c R2 (12.2.0.1) (OpenEdge 11.7.2 and higher)	✓	✓	✓	✓	✓	✓			B
		Oracle 12c R1 (12.1.0.2) (OpenEdge 11.6.1 and higher)	✓	✓	✓	✓	✓	✓		✓	B
		Oracle 12c R1(12.1.0.1) (OpenEdge 11.3.3 and higher)	✓	✓	✓	✓	✓	✓		✓	B
		Oracle 11g R2 (OpenEdge 11.1 and higher)	✓	✓	✓	✓		✓		✓	B
		Oracle 11g R1	✓	✓	✓	✓	✓	✓		✓	B
		Oracle 10gR2	✓	✓	✓	✓	✓	✓	✓	✓	B
		Oracle 10g R1	✓		✓	✓	✓	✓	✓	✓	B
		Oracle 9i	✓						✓		B
	OpenEdge DataServer for Microsoft SQL Server	MS SQL Server 2017 (11.7.3)	✓	✓							
		MS SQL Server 2016 (11.6.4)	✓	✓							

©2019 Progress Software Corporation. All Rights Reserved.

Product Category	Product Name	Certification and key functionality details	MS Windows Intel		Linux x86 Intel		IBM AIX	Solaris	HP UX PA-RISC	HP-UX Itanium	Notes
			32 Bit	64 Bit	32 Bit	64 Bit	64 Bit	64 Bit	64 Bit	64 Bit	
		MS SQL Server 2016 (11.7)	✓	✓							
		MS SQL Server 2014 (11.5)	✓	✓							
		MS SQL Server 2012 (11.1+)	✓	✓							
		MS SQL Server 2008 R2	✓	✓							
		MS SQL Server 2008	✓	✓							
		MS SQL Server 2005	✓	✓							
	OpenEdge Application Server	Basic Edition	✓	✓	✓	✓	✓	✓	✓	✓	
		Enterprise Edition	✓	✓	✓	✓	✓	✓	✓	✓	
	Progress Application Server for OpenEdge - Production			✓		✓	✓	✓		✓	
	Progress Application Server for OpenEdge - Development			✓		✓	✓	✓		✓	
	OpenEdge Explorer		✓	✓	✓	✓	✓	✓	✓	✓	
	Adapters (Not all the operating systems supported by the OpenEdge 11 platform are supported. Please refer to the OpenEdge and Aurea Sonic Compatibility Guide.	OpenEdge 11 Adapter for SonicMQ OpenEdge 11 Adapter for Sonic ESB	Sonic Software Adapters are packaged with the products listed in Note C below, only for the platforms supported by Aurea Software								C
	OpenEdge Replication	OpenEdge Replication	✓	✓	✓	✓	✓	✓	✓	✓	
		OpenEdge Replication Plus	✓	✓	✓	✓	✓	✓	✓	✓	
	OpenEdge Management	Standard Edition Console & Trending Database	✓	✓	✓	✓	✓	✓	✓	✓	
		Remote OpenEdge and operating system monitoring	✓	✓	✓	✓	✓	✓	✓	✓	
		SNMP Adapter	✓	✓	✓	✓	✓	✓	✓	✓	

[a] Beginning with OpenEdge 11.3, native Windows 64-bit support is extended to include the complete Windows Client, including the GUI runtime, Progress Developer Studio for OpenEdge (PDS for OpenEdge), and ADE Tools. The exception is the WebClient which will have native 64-bit Windows support in a later release.

Notes on 64-bit Microsoft Windows GUI Support on OpenEdge

For additional programming-related considerations please see the ABL Reference for OpenEdge 11.3. *These differences are all permanent unless otherwise noted.*

- ProTools: The OpenEdge 64-bit Windows GUI Client does not support the following ProTools: Screen Capture, ProSpy Plus, and XML Schema Mapping.
- AppBuilder For the Structured Procedure object, you can create a structured procedure and use the Section Editor to modify it, however this is no tree view available in the structured procedure's window.
- AppBuilder For WebSpeed Remote Development, you can use the WebSpeed development tools with a local Web server, but not with a remote Web server on another system.
- OCX's included with OpenEdge: The pstimer.ocx is the only 64-bit OCX control shipped with OpenEdge 11.3. The following OCX controls are no longer supported in the OpenEdge 64-bit Windows GUI Client: cscomb32.ocx, cslist32.ocx, and csspin32.ocx.
- Applications utilizing third-party OCX controls If an application includes third-party OCX controls, it is necessary to use a 64-bit version of the control on the OpenEdge 64-bit Windows

©2019 Progress Software Corporation. All Rights Reserved.

GUI Client. Developers should contact the OCX provider to determine whether a 64-bit version of the control is available.

- "Bit-ness" for OCX and DLL files must match the "bit-ness" of the Windows O/S. E.g., 32-bit OCX files are supported only on the 32-bit Windows O/S, and 64-bit DLL's are supported only on the 64-bit Windows O/S.
- Image file types The OpenEdge 64-bit Windows GUI Client supports only the following image file types:
    - BMP (Windows Bitmap)
    - GIF (Graphics Interchange Format)
    - ICO (Microsoft Icon File Format)
    - JPEG (Joint Photographic Experts Group)
    - PNG (Portal Network Graphics)
    - TIF (Tag Image File)
- TranMan: The screen capture facility in TranMan is not supported on the OpenEdge 64-bit Windows GUI Client.
- Progress.ini settings The UseNative3D and UseSourceEditor settings are ignored or unavailable when using the OpenEdge 64-bit Windows GUI Client.
- Report Engine: The Report Engine has not been ported to 64-bit Windows. The 32-bit Report Engine continues to ship with any product that includes the Report Engine.
- Progress Dynamics - Progress Dynamics is not supported in OpenEdge 64-bit.

Progress Developer Studio (PDS) for OpenEdge

The table below summarizes component versions within PDS for OpenEdge.

OpenEdge Release	Eclipse (Shipped)	Eclipse (Supported)	XML Version	.NET Framework	JVM Version
11.7.3+	4.5.2	-	3.7.2	4.6	1.8.0_101
11.7.2	4.5.2	-	3.7.2	4.6	1.8.0_101
11.7.1	4.5.2	-	3.7.2	4.6	1.8.0_101
11.7	4.5.2	-	3.7.2	4.6	1.8.0_101
11.6.4	4.3.1	-	3.5.1	4.0	1.7.0_45
11.6.3	4.3.1	-	3.5.1	4.0	1.7.0_45
11.6.2	4.3.1	-	3.5.1	4.0	1.7.0_45
11.6.1	4.3.1	-	3.5.1	4.0	1.7.0_45
11.6	4.3.1	-	3.5.1	4.0	1.7.0_45
11.5.1	4.3.1	-	3.5.1	4.0	1.7.0_45
11.5	4.3.1	-	3.5.1	4.0	1.7.0_45
11.4	4.3.1	-	3.5.1	4.0	1.7.0_45
11.3	3.7.1	3.8.0	3.3.1	4.0	1.7.0_02
11.2.1	3.7.1	3.8.0	3.3.1	4.0	1.6.0_27
11.2	3.7.1	3.8	3.3.1	4.0	1.6.0.27
11.1	3.6	3.7.1	3.2	4.0	1.6.0.27
11.0	3.6	-	3.2	4.0	1.6.0.27

©2019 Progress Software Corporation. All Rights Reserved.

Tomcat Web Server

As an OpenEdge Web Server

Progress Software does certify that Web Server and Servlet Engines must be JSE-compliant with the Java Servlet interface Version 2.3. In addition, Progress Software does **not** provide the Web Server and/or Servlet Engine except when used with Progress Application Server (PAS) for OpenEdge, and tests AIA and WSA using Servlet Exec, JRun, and Tomcat. Any current JSE (even those not tested) should work with Progress OpenEdge as long as the Java Servlet Engine adheres to Sun/Oracle Java Servlet specification Version 2.3, and is compatible with a Web Server.

Please refer to these Knowledge Base (KB) articles for additional information:

http://knowledgebase.progress.com/articles/Article/P186395
http://knowledgebase.progress.com/articles/Article/P71131
http://knowledgebase.progress.com/articles/Article/P77167

With Progress Application Server (PAS) for OpenEdge

The table below lists the Tomcat versions supplied with and supported by PAS for OpenEdge.

OpenEdge Release	Tomcat Version
11.7.5	8.5.40
11.7.4	8.5.34
11.7.3	8.5.29
11.7.2	8.5.23
11.7.1	8.5.14
11.7	8.5.11
11.6.4	7.0.79
11.6.3	7.0.70
11.6.2	7.0.65
11.6.1	7.0.65
11.6	7.0.62
11.5	7.0.55

Upcoming OpenEdge Certifications

The list of ongoing or upcoming certifications of OpenEdge 11.x is listed here for the informational purposes only. The delivery of the certifications may change without further notice according to the execution and /or change in priorities and hence they are not guaranteed for delivery. OpenEdge releases listed are for certification purposes and may not reflect the actual order of certification/porting.

©2019 Progress Software Corporation. All Rights Reserved.

Upcoming Platform changes

- Discontinue support for Windows Server 2008 starting with OpenEdge 12.0 (retain support in OpenEdge 11.7) due to the Microsoft life cycle for this product.
- Discontinue support for HP-UX starting with OpenEdge 12.0 (retain support in OpenEdge 11.7) due to significantly reduced demand
- Discontinue support for Solaris starting with OpenEdge 12.0 (retain support in OpenEdge 11.7) due to significantly reduced demand

Windows Server 2008 R2 Retirement (Effective OpenEdge 12.0)

Microsoft discontinued support for Windows Server 2008 R2 in 2015, with Extended Support ending in January 2020. Although Progress OpenEdge 11.7 and earlier versions continue to support this platform, Progress has decided to discontinue this support with the release of OpenEdge 12.0. By doing so, Progress will be able to effectively support the latest versions of .NET and other security updates in the upcoming OpenEdge releases.

Windows XP and Windows 2003 Retirement (Effective OpenEdge 11.7)

Microsoft discontinued support for Windows XP in 2014 and Windows 2003 in 2015. Although Progress OpenEdge 11.6 and earlier versions continue to support these platforms, Progress has decided to discontinue this support with the release of OpenEdge 11.7. By doing so, Progress will be able to effectively support the latest versions of .NET and other security updates in the upcoming releases.

Progress OpenEdge Dynamics Support (Effective January 2017)

In the last decade, technology has evolved significantly, and our partners and customers now seek more modern, modularized application frameworks not served by Progress OpenEdge Dynamics. Hence, OpenEdge Dynamics has entered the “functionally mature” phase of the product lifecycle. In the functionally mature phase, Progress will not introduce new Dynamics functionality nor will we be testing/certifying Dynamics with newer products, like Progress Application Server for OpenEdge (PAS for OpenEdge) or Kendo UI® Builder by Progress. However, Progress will continue to support existing OpenEdge Dynamics customers on latest OpenEdge version 11.6.x as well as the upcoming OpenEdge release 11.7 and remains committed to addressing any high priority defects reported by customers.

OpenEdge ODBC DataServer (Effective January 2016)

OpenEdge ODBC DataServer has been retired as of 1 January 2016. Progress will continue to support the ODBC DataServer with OpenEdge 11.6 until OpenEdge 11.6 is retired. There is no current retirement date for OpenEdge 11.6.x, but as per the life cycle policy, the retirement date is expected to be around October 2018. This will be the last release of the ODBC DataServer supported by Progress. Additionally, clients up until the final supported release, OpenEdge 11.6, will be allowed to connect to previous OpenEdge ODBC DataServers back to the oldest supported ODBC DataServer release, 10.2B08. Any DataServer releases previous to OpenEdge 10.2B08 will not be supported.

Regarding the compatibility of newer clients connecting client/server to older versions of the OpenEdge ODBC DataServer, this will be limited to 11.x releases. OpenEdge 12 will not be backward

©2019 Progress Software Corporation. All Rights Reserved.

compatible. Given that the ODBC DataServer is retired in 11.6 and OpenEdge 11.7 is the last expected minor release of the 11.x product family, OpenEdge 11.7 clients will only be supported in client/server mode to earlier ODBC DataServers that are still under support. OpenEdge 11.7 clients is expected to be the last client supported with backward-compatible connection capability. Please note: It is important, from a security standpoint, that the client and drivers be OpenEdge 11.5.1 or above.

Tomcat Update Policy (Effective January 2017)

Progress OpenEdge embeds a version of the Apache Tomcat Web server in the Progress Application Server (PAS) for OpenEdge product and recognizes customer requirements to keep up-to-date with Apache Tomcat security patches. PAS for OpenEdge employs an unaltered version of the core Apache Tomcat server libraries that you may update from an official Apache Tomcat distribution (e.g. http://tomcat.apache.org/migration.html) of *the same major release version*. The patch being applied must be a higher version. The core Tomcat server libraries contain the majority of the security patches.

Note: An Apache Tomcat distribution also contains configurable text files that *cannot* be updated without invalidating the PAS for OpenEdge security configuration, ABL language support, and its integration with the overall OpenEdge product set. Please consult with Progress Technical Support before altering these text files.

The approved list of files that may be safely updated from an official Apache Tomcat distribution includes:

bin/*.jar
lib/*.jar
bin/catalina.{sh|bat}
bin/daemon.{sh|bat}
bin/setclasspath.{sh|bat}

The version of Tomcat that is supplied for use by Progress Developer Studio for OpenEdge should *not* be patched.

Patching the PAS for OpenEdge SSL/TLS capability requires an update of the JVM version: please refer to the OpenEdge policy for updating JVM versions.

Please note that Progress cannot formally certify each security patch released by Apache. Issues that arise from installing these patches, so long as they are part of the same major Tomcat release version, can be reported to Progress Technical Support for further assistance.

OpenEdge Java Certification Policy (Effective January 2018)

To help customers adopt more recent versions of Java, the Java certification process for the OpenEdge platform is categorized into shipped (included in the OpenEdge installation) and certified (must be obtained from the appropriate Java source) versions of Java. To obtain latest Java platform support, customers are encouraged to adopt and work with active OpenEdge releases

NOTE: The Java support policy applies to all Active OpenEdge releases. Additional details about the OpenEdge Product life cycle can be obtained in Product Life Cycle Guide located on Progress Communities. Please also note that this policy does NOT apply to any OpenEdge Mature or Retired versions- this Progress Product Availability Guide details Java support for Mature/Retired releases of the OpenEdge platform. Any additional Java certifications for OpenEdge Mature releases is completely at the discretion of Progress Software.

©2019 Progress Software Corporation. All Rights Reserved.

1. Aligning OpenEdge releases with third party software (e.g. Java) is extremely challenging due to timing and stability issues with different software vendors and their life cycle policies. To enable Progress Software customers to keep up with the latest version of Java, Progress will make every effort to certify a newly released Java minor version (e.g. 1.7 or 1.8) within 6 to 8 months of the Java release. This document will note the shipped and certified version of Java. e.g. OpenEdge 11.6 release ships with Java 1.7.0_45 and certifies with Java 1.8.0_xx.

2. As in the past, all OpenEdge major and minor releases will continue to ship with a recent version of Java. Progress Software will make a reasonable effort to ship each new major or minor OpenEdge release (e.g. 11.0, 11.1, 11.2 etc.) with a recent minor version of Java that was released within the last 12 to 18 months prior to the first availability of the OpenEdge release. The shipped version of Java is the default Java version and will continue to be supported throughout the life cycle of the OpenEdge release. This document details the shipped version of Java, e.g. OpenEdge 11.6 ships with Java 1.7.0_45 and will be supported through the life cycle of OpenEdge 11.6.

3. Except for the HP-UX and AIX platforms, and unless otherwise explicitly noted in this document, the most recent Java patches (e.g. xx – in Java 1.8.0_xx) of a shipped or certified version of Java will be supported by default. This policy assumes that Java patches do not alter any existing behavior or functionality. As always, customers are strongly advised to test their application functionality with the most recent patches of Java before deploying into a production environment.

Progress reserves the right to update this policy from time to time and encourages you to refer to the most current version of this document for the latest information on Progress Software's OpenEdge Java certification policy.

OpenEdge Pro2 Product Availability by Platform

Product	Windows 32bit	Windows 64bit	HP-UX 64bit ITANIUM	IBM AIX 64bit	Linux 32bit Intel	Linux 64bit Intel	Solaris SPARC 64bit	Components
OpenEdge Pro2SQL	✓	✓	✓	✓		✓	✓	OpenEdge DataServer for MS SQL Server
								Client Networking
								4GL Development System
								CDC License (v.5)
								Pro2 v5.0
OpenEdge Pro2Oracle	✓	✓	✓	✓		✓	✓	OpenEdge DataServer for Oracle
								Client Networking
								4GL Development System
								CDC License (v.5)
								Pro2 v5.0
OpenEdge Pro2	✓	✓	✓	✓		✓	✓	OpenEdge Enterprise RDBMS
								Client Networking
								4GL Development System
								CDC License (v.5)
								Pro2 v5.0
OpenEdge Pro2Enterprise	✓	✓	✓	✓		✓	✓	OpenEdge DataServer for Oracle
								Client Networking

©2019 Progress Software Corporation. All Rights Reserved.

Product	Windows 32bit	Windows 64bit	HP-UX 64bit ITANIUM	IBM AIX 64bit	Linux 32bit Intel	Linux 64bit Intel	Solaris SPARC 64bit	Components
								4GL Development System
								CDC License (v.5)
								Pro2 v5.0

For additional supported platform information please refer to the OpenEdge DataServers availability section in the Availability by Platform table above.

Note: Linux 32-bit platform has been discontinued from Pro2 v5.0 (in accordance with OE11.7) onwards
Note: CDC license is for use with Pro2 ONLY and cannot be used for any other purpose.

Notes on Platforms and Products

Build Platform: This Operating System edition is used for the compilation and building of the OpenEdge Binaries. Custom binary creation using OpenEdge Build Scripts should be performed using this Operating System.

Certification: This Operating System edition has been tested using the binaries created under the "Build Platform"

Limited: Certain restrictions apply. Please refer to the "Platforms and Product Notes" chapter for more details.

OS Service Pack / Maintenance Pack Support

Operating System (OS) updates are not automatically certified but are supported where the OS vendor guarantees backwards compatibility with the baseline OS level. Certification of OS updates may be performed if the backwards guarantee compatibility of the OS Service Pack / Maintenance Pack is questionable.

A. Failover Cluster Managers certified and supported by OpenEdge 11:

- Windows Server 2016 Cluster failover
- Microsoft Windows Server 2008 R2 Failover Clusters (64-bit OpenEdge only)
- IBM HA Cluster (HACMP) 5.3
- IBM HA Cluster (HACMP) 5.4.1 with OS AIX 5.3
- IBM HA Cluster (HACMP) 6.1 with OS AIX 6.1
- PowerHA 7.1(HACMP 7.1) with AIX 6.1/7.1
- Sun Solaris Sun Cluster 2.2, 3.0, 3.1, 3.2 & 4.3
- HP-UX Service Guard 11i (PA-RISC)
- HP-UX Service Guard 11i (Itanium2)
  Note: Please refer to the notes on Solaris Cluster 4.3:
  http://knowledgebase.progress.com/articles/Article/Certification-of-Solaris-Cluster-4-3-for-OpenEdge-11-x

B. Oracle RDBMS Support: Indicates platforms where the Oracle RDBMS product may not be commercially available but the OpenEdge DataServer can be installed to provide client/server access to remote Oracle RDBMS instances. For operating systems that support 32-bit and 64-bit applications, Oracle 18c, Oracle 12c, Oracle 11g, Oracle 10g and Oracle 9i release 2 are only available as a 64-bit

©2019 Progress Software Corporation. All Rights Reserved.

product. The 32-bit based OpenEdge DataServer for Oracle can access a 64-bit Oracle Database instance via 32-bit Oracle Client software.

C. OpenEdge & Sonic: Compatibility is documented on the Progress Community: https://community.progress.com/community_groups/openedge_general/w/openedgegeneral/1501.openedge-product-availability-guides-and-life-cycle-guide

D. File System Support (NFS, iSCSI, CIFS, ZFS, and Encrypted file systems): No matter which operating system you prefer, there are numerous choices for file systems available, each with different performance characteristics and limitations.

   In general, Progress Software does not support or certify specific file systems for use as OpenEdge RDBMS storage. File systems are part of an operating system, just as device drivers are, and are supported by their respective operating system suppliers. If there are bugs or defects, Progress cannot correct them - the operating system supplier is responsible for that. Furthermore, certification testing of any operating system using any file system is done from the standpoint of correct functionality and does not take performance metrics into account. Different file systems may have performance-related side effects that are a by-product of how the file system operates. Users are advised to carry out extensive acceptance testing and seek vendor guidance when performance issues are observed. Progress Software is unable to assist customers with configuring any file system to manage performance or other characteristics.

   The OpenEdge RDBMS works well with most file systems as long as the operating system's file access API is properly implemented, the file system's options are properly configured, and the supplier's patches have been applied. Only in very rare instances has Progress Software certified file systems or other storage products for use as OpenEdge RDBMS storage. These were done on an exception basis, usually in cooperation with the respective vendors, and include: Network File System (NFS), which is supported starting with NFS Version 3; NetApp Filers; EMC SRDF; and iSCSI, which is supported beginning with the OpenEdge 10.1A release.

   For leveraging UNIX/Linux/Windows Encrypted File Systems, OpenEdge products have no restrictions provided the encryption technology is truly transparent to the Operating System. No formal certification of Encrypted File System Technology is planned. The EFS technology transparently allows files to be stored encrypted on NTFS file systems.

   ZFS is the default file system for Sun Solaris 11 and the OpenEdge certification of that operating system was carried out using this default.

   XFS is the default file system for RHEL 7.0 64-bit/CentOS 7.0 64-bit, and OpenEdge certifications have been carried out using XFS.

E. Software support policy for Windows Tablet XP 2005: The Microsoft Windows XP Tablet 2005 operating system is a superset of the Windows XP Professional operating system; applications that are compatible with Windows XP Professional also run on Windows XP Tablet 2005 Edition. Progress Software does not guarantee support for Windows Tablet XP 2005 features that are not part of the Windows XP Professional operating system and any issues found with these Tablet XP features relating to Progress Software products, will need to be proven against the Windows XP Professional operating system before contacting Progress technical support. For more details on Windows Tablet XP 2005 features, support and compatibility please refer to the following on-line Microsoft documentation: http://support.microsoft.com/default.aspx?scid=kb;en-us;327160

F. Application Virtualization software support and certification policies: Application Virtualization Software such as Citrix Metaframe, Citrix Presentation Server, HOBLink, VMware, and MS Windows Terminal Server are products that provide an abstraction layer that decouples the physical

©2019 Progress Software Corporation. All Rights Reserved.

hardware from the 'guest' operating system to deliver greater IT resource utilization and flexibility. Progress OpenEdge provides full support with Application Software environments. The versions noted on the list below indicate support for the entire "family" of releases within the version. For example, support for "Citrix XenApp 6.x" extends to all Version 6 releases of XenApp and is not limited specifically to any particular one. Here are the minimum supported vendors and versions of virtualization technologies:

- Citrix MetaFrame XPe
- Citrix XenServer Virtualization (formally known as XenSource) (4.1, 5.5, 5.6 and 6.2)
- Windows Terminal Server (2003R2)
- Citrix Presentation Server (3.0 & 4.0 MS Windows)
- Citrix XenApp 5.x
- Citrix XenApp 6.x
- Citrix XenApp 7.x
- VMware Workstation 5, 6, 7, 8, 9
- VMware ESX/ESXi 3.5
- VMware vSphere v4.x (ESX 4.x, ESXi 4.x)
- VMware vSphere v5.x (ESX 5.x, ESXi 5.x)
- VMware vSphere v6.x (ESXi 6.x)
- Solaris Zones/Containers
- HOBLink (MS Windows)
- IBM Logical Partitions for AIX
- HP Itanium Virtualization
- Microsoft Hyper-V Server 2008*
- Microsoft Hyper-V Server 2012*

*Due to the manner in which Hyper-V technology manages shared memory, Progress Software recommends that performance testing be carried out to verify that there is not a negative performance impact on OpenEdge applications.

G. OpenEdge DataServer for Oracle certification table: The table below provides information on OpenEdge certification of Oracle for the OpenEdge DataServer for Oracle. The Oracle client version given in the table was used for certification testing. However, other client versions of the same Oracle release are also supported. The same version (listed in the "Oracle Certified Version" column) of Oracle Server and OCI Client Libraries were used for certification.

Oracle Version	Oracle Certified Version	Windows		Linux x86 on Intel		IBM AIX PPC		Solaris SPARC		HP-UX PA-RISC		HP-UX Itanium	SCO UnixWare
		32-bit	64-bit	32-bit	64-bit	32-bit	64-bit	32-bit	64-bit	32-bit	64-bit	64-bit	32-bit
18c*	**18.3.0.0**	**11.7.5**	**11.7.5**	✗	**11.7.5**	✗	**11.7.5**	✗	**11.7.5**	✗	✗	✗#	✗
12c*	**12.2.0.1**	**11.7.2**	**11.7.2**	✗	**11.7.2**	✗	**11.7.2**	✗	**11.7.2**	✗	✗	✗#	✗
12c*	**12.1.0.1.0**	11.3	11.3	11.3	11.3	✗	11.3	✗	11.3	✗	✗	11.3	✗
11g R2	**11.2.0.1**	10.2A	10.2A	10.2A	10.2A	✗	10.2B	✗	10.2A	✗	10.2B	10.2B	✗
11g R1	**11.1.0.6**	10.1C	10.2A	10.1C	10.1C	✗	10.1C	✗	10.1C	✗	10.1C	10.1C	✗
10g R2	**10.2.0.1**	10.1A	10.2A	10.1A	10.1A	10.1A	10.1A	10.1A	10.1A	✗	10.1A	10.1A	✗
10g R1	**10.1.0.2**	10.1A	✗	10.1A	10.1A	10.1A	10.1A	10.1A	10.1A	✗	10.1A	10.1A	✗
9i	**9.0.1.1**	9.1E	✗	✗	✗	✗	✗	9.1E	9.1E	✗	9.1E	✗	✗

- : Not certified

* In addition to the current support for Oracle 12c and above, the OpenEdge DataServer for Oracle is certified for Oracle12c & 18c with multi-tenant enabled databases (OE11.7 onwards)

©2019 Progress Software Corporation. All Rights Reserved.

[#] For HPUXIA64, infrastructure upgrade is required and will be done with major versions of OE i,e 12.0

H. Web browser support: OpenEdge does not certify any specific Web browser with any release of OpenEdge product. If a problem arises using a specific Web browser, please contact Progress Support for assistance.

I. OpenEdge BPM Runtime support table:

Platform	32-bit	64-bit
Windows XP	X	
Windows 7	X	X
Windows 2003 R2	X	
Windows 2008 R2		X
Windows 8	X	X
Windows Server 2012		X
Windows 8.1	X	X
Windows Server 2012 R2		X
AIX 6.1		X
AIX 7.1		X
HP-UX 11i v3 PA-RISC		X
HP-UX 11i v3 Itanium		X
RH Linux 5	X	X
RH Linux 6	X	X
SUSE Linux 11	X	X
CentOS 5.5		X
OEL 5.5		X
Solaris 10 SPARC		X
Solaris 11 SPARC		X

J. The following versions of Windows SBS (Small Business Server) are supported: Windows SBS 2003 R2, Windows SBS 2008, Windows SBS 2011, Windows Server 2012 Essentials, Windows Server 2012 R2 Essentials.

K. Note on 32-bit and 64-bit x86 environments (Operating System and CPU): OpenEdge 11 32-bit products are supported on operating systems that can sustain either 32-bit or 64-bit kernel modes. However, for ODBC clients using the 32-bit OpenEdge ODBC driver, the SQL application must be compiled in 32-bit mode.

L. Certification of Microsoft SQL Server 2012 for OpenEdge 11.1 and higher: Drivers Certified with MS SQL Server 2012:
- SQL Native Client 11.0 (OpenEdge 11.3 and higher)
- SQL Native Client 10.0
- SQL Native Client 9.0
- SQL Server
- Data Direct driver 6.1

©2019 Progress Software Corporation. All Rights Reserved.

M. Report Builder Engine is not supported with tables that have Table Partitioning or Multi-Tenancy enabled against them. In addition:

- The Report Builder Engine will only work with tables in a partitioned database that are not partitioned. The Report Builder Engine will return an error if the report in question attempts to access a table in a partitioned database that has been partitioned.

- The Report Builder Engine will only work with tables in a multi-tenant database that are shared tables. The Report Builder Engine will return an error if the report in question attempts to access a table in a database that has been defined as multi-tenant.

N. Certification of Microsoft SQL Server 2014 for OpenEdge 11.5, Drivers Certified with MS SQL Server 2014:
   - SQL Native Client 11
   - SQL Native Client 10
   - SQL Native Client 9
   - SQL Server
   - Data Direct ODBC 7.1 driver (OpenEdge 11.5 Legacy Wire Protocol Driver for MS SQL Server)

O. The Advanced Enterprise Edition RDBMS (AEE RDBMS) is a multi-user relational database engine designed to support high-volume, distributed, and enterprise-level applications. It provides database services in both development and deployment environments. The AEE RDBMS has all of the functionality of the OpenEdge Enterprise database plus the functionality of Transparent Data Encryption, Multi-tenant Tables, Table Partitioning, Replication Plus, and OpenEdge Management.

P. WEPOS (Windows Embedded for Point of Service) is a client only OS and does not support server products.

Q. In OpenEdge 11.6 release, OpenEdge DataServer for Microsoft SQL Server has replaced "Legacy Wire Protocol Driver" with New Wire Protocol Driver (Data Direct SQL Server Wire Protocol ODBC Driver v7.1.5). Newly replaced Driver shall work with all existing certified Microsoft SQL Servers.

R. A 32-bit version of Perl is shipped with the OpenEdge 64-bit Product (except the Linux 64-bit platform in OE11.7). Before using Perl (or utilities using Perl), install all of the dependent libraries (32-bit) of Perl as specified in the corresponding documentation.

S. Certification of Microsoft SQL Server 2016 for OpenEdge 11.7 Drivers Certified with MS SQL Server 2016:
   - SQL Native Client 11
   - SQL Server
   - Data Direct ODBC wire protocol 7.1 driver

   Note: During execution of this certification we found an issue with Date Time data type when used in the where clause in ABL application, for more details on this please refer to OE11.7 release notes under the section "ABL Query with date time filter returns no data with MSSQL Server"

T. Certification of Microsoft SQL Server 2017 on Windows and Linux for OpenEdge 11.7. Drivers Certified with MS SQL Server 2017:
   - SQL Native Client 11**Error! Hyperlink reference not valid.**
   - SQL Server
   - Data Direct ODBC wire protocol 7.1 driver **Error! Hyperlink reference not valid.**

   Note: During execution of this certification we found an issue with the Date Time data type when used in the where clause of an ABL application. For more details on this, please refer to the OpenEdge 11.7 release notes under the section "ABL Query with date time filter returns no data with

©2019 Progress Software Corporation. All Rights Reserved.

MSSQL Server".

Notes on Windows 10

Windows 10 Creators Update, April 2017:

When users began updating their systems with this update, several issues were identified when running OpenEdge 10.2B or later. Given the impact of the issues, Progress issued a Product Alert in June 2017 titled: OpenEdge Issues After Installing Windows 10 Creators Update.

Fixes from both Progress and Microsoft have resolved all known issues. Please refer to the Product Alert for details on specific actions you may need to take for your version of OpenEdge.

Future Delivery of Windows 10 Updates

Microsoft has adopted a new way to deliver updates for Windows 10 using 4 Servicing Branches:

- Windows Insider – Updates are immediately made available to the customers. This makes customers to avail and make use of features early. This is equivalent to working with Beta version of the Updates.
- Semi-Annual Channel (Targeted) – This is mainly intended for customers who are in need of new features for immediate use.
- Semi-Annual Channel – Current Branch marked as Current Branch for Business typically after a duration of 4 months, this gives them ample time to strengthen the Current Branch for stable deployments.
- Long-Term Servicing Channel (LTSC) – There would not be any feature updates on this branch though security updates would continue to occur. New LTSB versions may get release in a two to three year release cycle. This would be at the discretion of Microsoft. LTSB is mainly meant for stable deployments and it is only available on Windows 10 Enterprise LTSB edition.

Please refer to the following for more details on the Servicing Branches:
https://docs.microsoft.com/en-us/windows/deployment/update/waas-overview

Progress Recommendation on Windows 10 Servicing Branches
By considering several factors such as availability, time to address the issues, release cycles and stability, Progress recommends its customers to be on either Semi-Annual Channel or LTSC. LTSC should be used only if your deployment satisfies the criteria that has been mentioned in the reference link that has been provided above.

Does the above recommendation hold true for both Development and Production deployments?
Yes, by considering the latest updates in Windows Insider and Semi-Annual Channel (Targeted), we suggest you to be either on Semi-Annual Channel or LTSC.

Disclaimer: The above information may be subject to change based on our evaluation of updates for Windows 10.

Supporting Windows Client Operating Systems (Effective June 2019)

Microsoft offers two flavors of its Windows Operating System (OS):

a) Client OS (e.g. Windows 10) designed to run on personal computers, and
b) Server OS (e.g. Windows Server 2019) optimized for handling mission critical, heavy computing loads on production grade servers.

©2019 Progress Software Corporation. All Rights Reserved.

This section describes how Progress supports OpenEdge products deployed on Windows Client Operating Systems that are on different support cycles.

For their Client OS products, Microsoft offers a choice of lifecycle support options:

1. Windows Client OS Semi-Annual Channel (SAC)

For users wishing to stay current on the latest features, starting with Windows 10, a Semi-Annual Channel (SAC) was introduced where the cumulative updates are pushed out (often automatically) twice per year. For example, Windows 10 1903 release was made available on May 21, 2019.

What this means to you:

- Progress will not explicitly certify OpenEdge on new Windows Client OS SAC updates.
- Should you encounter a problem using OpenEdge after the new Microsoft Windows SAC update is applied you may open a support case with our Technical Support. Progress will make reasonable effort to investigate the issue and help find a solution or a workaround, including if necessary working with Microsoft. In case a solution or a workaround is identified we will share it proactively with our customers.
- If your deployment is mission critical and/or you want to minimize the risk of incompatibility between latest OS updates and your OpenEdge version, you should consider using Windows LTSC instead of SAC.

2. Windows Client OS Long Term Servicing Channel (LTSC)

For mission critical use, an Enterprise Long Term Servicing Channel (LTSC) editions are offered, with releases made available approximately once every three years.

What this means to you:

- Progress will make every effort to certify all then active and mature OpenEdge releases within **60 days** of Microsoft making Windows LTSC updates publicly available. Upon completion of this certification Progress will update this document (OpenEdge PAG).
- When you open a support case with our Technical Support, you may be asked to reproduce the reported issue on the certified Windows Client OS LTSC update, and in some cases updating to the latest certified LTSC version may be the only remedy available to you.

Notes on Linux

- General Linux Coverage: The Linux Operating System supports the following hardware platforms:
  - Intel x86 (32-Bit) (NB)
  - AMD64 (64-Bit) (NB)
  - Intel EM64T (64-Bit) (NB)
  - Itanium Processor Family
  - IBM zSeries (64-Bit) - Supported only in 11.0
  - IBM S/390 (32-Bit) - Supported only in 11.0
  - IBM on POWER (IBM iSeries 64-Bit) - Supported only in 11.0

(NB) Linux environments supported by OpenEdge

©2019 Progress Software Corporation. All Rights Reserved.

To support the different Linux platforms, there are an indeterminate number of Linux distributions in the market. Customers have consistently asked for stability, better performance, and reliability of the Linux platform as well as enterprise-class support. Progress Software cannot be effective in servicing customers if we attempt to support a large number of different Linux distributions. It is our intent to support a selected set of distributions that have long life cycles and that are well supported by the distributors and their partners. The primary Linux distributions supported are those from Red Hat and Novell SUSE (Enterprise editions only).

- Patches and Updates: Commercial updates are not automatically certified. Progress Software relies on the Operating System vendor to guarantee binary compatibility between their updates and kernel versions.

- Linux environment details: Support of the Network File System (NFS) protocol version 3 (NFSv3) under the Linux Intel x86 platform for Progress OpenEdge products, in particular the support of RDBMS files (physical and recovery) on a NFS partition, requires updates and features found within the 2.4.21 Linux Kernel and = OpenEdge Service Packs. Network File System (NFS) protocol versions NFSv2 and NFSv4 under Linux have not been certified and are therefore unsupported.

- Linux support for IBM on POWER8 is only available on OpenEdge version 11.0. OpenEdge version 11.1 and above are currently not supported on the POWER8 platform

RHEL and/or CentOS for 6.x/7.x series are certified by Progress several different ways. Information available from RedHat and CentOS regarding each release from various sources help Progress determine what we can support and cannot support. The support matrix for Linux is listed below.

Red Hat has mentioned some regressions in later releases of version 6 such as 6.4/6.5/6.6. A majority of these have been fixed in 6.6. Progress plans to certify with RHEL6.5 and then 6.6. Once 6.5 is certified we will know the impact of these regressions and can address them accordingly. In the interim if a customer encounters any issues that prevent them from moving forward, they can look to upgrade to 6.6 with the appropriate patches (if they are on 6.4 and/or 6.5).

RedHat has stated that although they always take precautionary measures to avoid regressions in minor releases it sometimes happens. Of late the largest area of concern has been around encountering failures with drivers and other 3rd party components. RedHat and Progress suggest that customers test changes thoroughly for each minor release.

For OpenEdge versions OE11.0.0 to OE11.6.x and OE11.7.0 to OE11.7.5

RedHat 6.6-6.x	Supported
RedHat 7.0-7.x	Supported
CentOS 6.6-6.x	Supported
CentOS 7.0-7.x	Supported
Oracle Linux 6.6-6.x	Supported
Oracle Linux 7.0-7.x	Supported

OpenEdge Feature / Functionality Obsolescence Life Cycle

The OpenEdge platform has a well-defined life cycle at the product (packaging) level. Product releases can be described as Active, Mature or Retired. Such a life cycle is appropriate for specific releases of products, but it is also necessary to have a finer level of granularity independent of the product life cycle which addresses the feature or functionality level. This includes operating systems as well as features. Features and functionality move through various phases from commercial introduction to obsolescence.

©2019 Progress Software Corporation. All Rights Reserved.

As features become obsolete, they are handled in one of two ways: They can be ***Deprecated*** or ***De-Supported***.

Definition of Deprecated: *Features/Functionality is identified as obsolete, but not removed from the supporting technology.*

Definition of De-Supported: *Features/Functionality is identified as obsolete and removed from the supporting technology.*

For example, the English language like computer software is ever evolving, and certain 'olde' words drop out of fashion and are replaced. These 'olde' words are never removed but deprecated and may not be recognized by modern-day spell and grammar checkers although they are still commonly understood. In contrast, de-support of the phrase 'couch potato' has been requested by a number of potato farmers due to the negative image the term portrays, with the hope that this term drops out of dictionaries *and* usage.

The backward compatibility of OpenEdge-based applications and deployments are some of the key factors in determining if obsolete features can be *Deprecated* or *De-Supported*.

Typically, OpenEdge language features are deprecated to ensure the support of existing applications where as de-support is used for functionality where the loss does not force application re-work.

Benefits of the Deprecated and De-Support life cycles phases include:
- Set appropriate customer's expectations regarding backwards/forwards compatibility
- Give customers sufficient time to consider and plan changes in their applications
- Promote rejuvenation and upkeep of applications, advantageous to partners and customers
- Better alignment with non OpenEdge technology partners such as Operating Systems vendors
- Encourage customers to use modern replacement features as appropriate

Deprecated Features and Functionalities:
Deprecation provides the ability to identify, communicate and manage obsolescence (and the possible eventual de-support) of features and functionality, independent of the products and versions in which they may be included and how are they packaged. Progress' recommendation is that deprecated features should no longer be used. Customers should consider substituting deprecated features <u>over time</u> with the newer replacement ones. Please note that:
- Deprecated features continue to function.
- Limited basic support will be available for deprecated features and functionalities.
- Deprecated features will not include further enhancements
- Communications will follow the 'Obsolescence Life Cycle Guidelines' as described below

De-Supported Features and Functionalities
De-support is used where changes in technology or standards have made a feature obsolete and it is removed from the OpenEdge product. De-supported features typically have replacement equivalents and have no impact on backwards compatibility. Key details of De-Support include:
- OpenEdge-dependent features will be removed, such as RAW partition support.
- Third-party-dependent features, such as platform support, may continue to function
- There will be no Limited basic support for de-supported features
- Communications will follow the 'Obsolescence Life Cycle Guidelines' as described below

Obsolescence Life Cycle Guidelines:
The following are the phases for the deprecation or de-support life cycle of features as they become obsolete:

©2019 Progress Software Corporation. All Rights Reserved.

- Prior to assigning one of the obsolescence statuses, features that are candidates for deprecation or de-support will be published to partners and customers for comment, potentially polling for information on the impact that the deprecation or de-support may cause to current applications.
- OpenEdge Product Management will use the information gathered from this process to assess the obsolescence of each feature or functionality.
- Details about de-supported and deprecated features will be included in this document.
- Announcements will be made to inform the Progress community of updates to features' status.
- Deprecated and de-supported features will be identified as such in the Product Documentation.

Deprecated Features and Functionality List

The following table contains the current list of deprecated features and operating systems for OpenEdge 11. Timeframe details are published to help partners and customers with their planning. We recommend substituting obsolete functionality with appropriate equivalents as indicated in the following table.

Deprecated Feature or Functionality	Replacement Feature	Deprecation Information	
		Announced OpenEdge version	Notes
Progress Explorer	OpenEdge Explorer	OpenEdge 10.1C	OpenEdge Explorer replaces Progress Explorer
SQL in 4GL	4GL	OpenEdge 10.0A	SQL statements in 4GL code require the Progress V9 SQL-89 product. The SQL-89 interface is obsolete.
CHOOSE statement	Selection lists, Data browsers	OpenEdge 10.1A	Selection lists and data browsers are available on ChUI and GUI (Windows desktop); the functionality of the CHOOSE statement has been superseded by the new constructs, easier to use and with additional, more complete built-in behaviors.
EDITING clause in UPDATE, SET PROMPT-FOR	WAIT-FOR	OpenEdge 10.1A	EDITING blocks were required for ChUI procedural applications, prior to event-driven programming which provides much more flexibility, additional functionality and that are easier to learn by users. EDITING blocks are not appropriate for event-driven, multi-tier or Service-Oriented applications
GATEWAYS statement	DATASERVERS	OpenEdge 10.0A	GATEWAYS was an early term (V6) to refer to DataServers. The term was fully replaced by DATASERVERS, which provides identical functionality.
GO-PENDING statement	See notes	OpenEdge 10.1A	Dependency with EDITING
IS-ATTR-SPACE statement	Obsolete, not needed	OpenEdge 10.0A	ATTR-SPACE hardware terminals have been long ago superseded. They are not available, nor used anymore. IS-ATTR-SPACE adds product maintenance costs and backwards compatibility requirements not required by the market anymore.
PUT SCREEN statement	DISPLAY	OpenEdge 10.0A	This feature has become obsolete and will not be enhanced. If needed, its functionality can be achieved with the DISPLAY statement.
SCROLL statement	See CHOOSE	OpenEdge 10.1A	See CHOOSE
Open Client ActiveX	Open Client. NET	OpenEdge 10.0A	Refer to the Open Client ActiveX statement of direction available on PSDN (http://psdn.progress.com/index.ssp)
RECID	ROWID	10.1B (this entry was posted on May 17 2006)	Supported mainly for backward compatibility. For most applications, use the ROWID function, instead. Excerpts from the Product Documentation: *"ROWID function replaces the RECID function for most applications. However, you must use the RECID function for maintaining schema objects (file and field relationships) in the Progress metaschema files."* NOTE: As with all deprecations, current RECID support and related ABL functionality remains 'as is'. No future RECID functionality enhancements are planned.
WORKFILES / WORKTABLES	ABL Temp-Tables	10.1B (this entry was posted on June 26 2006)	It is recommended to use ABL Temp-Tables or ProDataSets

©2019 Progress Software Corporation. All Rights Reserved.

PROMPT-FOR (this feature will be removed from this deprecated feature list)	SET or UPDATE	10.1B (this entry was posted on June 26 2006)	It is recommended to use the SET and UPDATE ABL commands in place of the PROMT-FOR statement Aug 6 2006 Update - PROMPT-FOR removed as ENABLE and WAIT-FOR are only viable alternatives for event-driven applications
DDE	Use Microsoft's Component Object Model (COM)	10.1B (this entry was posted on June 26 2006)	Dynamic Data Exchange (DDE). Use Component Object Model (COM) instead. See product documentation: OpenEdge Development: Programming Interfaces
WIDGET-HANDLE	HANDLE	10.1B (this entry was posted on June 26 2006)	There is absolutely no difference between WIDGET-HANDLE and HANDLE
Java applets	NONE	10.2B	Remove the ability for Java applets to call ABL via the Java Open Client

De-Supported Features and Functionality List

The following table contains the current list of de-supported features and operating systems for OpenEdge 11. Timeframe details are published to help partners and customers with their planning. We recommend substituting obsolete functionality with appropriate equivalents as indicated in the following table.

De-supported Feature or Functionality	Replacement Feature	De-Support Information		
		De-support Scheduled For	Notes	Status
RAW PARTITION support for database files	OS File System storage	OpenEdge 10.1A	Substitute with FILE-SYSTEM extents. With 10.1A, the RAW-PARTITION RDBMS extents are not supported.	Completed
OpenEdge DataServer for Oracle for HP UX 32-bit	None	OpenEdge 10.1C	Oracle is no longer selling the DataServer for the HP UX 32-bit platform	Completed
Windows 2000 Professional SP4	Windows 2003 (SP1)	OpenEdge 10.2A	Windows 2000 (http://support.microsoft.com/lifecycle/?LN=en-us&x=10&y=6) ▪ General Availability: March 31, 2000 ▪ Mainstream support retired: June 30, 2005 ▪ Extended support retired: July 13 2010	Completed
DB2 UDB 7.2 (MVS, RS/6000, NT)	DB2 UDB 8.1 or above	OpenEdge 10.2A	▪ General Availability: June 8, 2001 ▪ End of support: September 30, 2004 http://www-306.ibm.com/software/support/lifecycle/index_a_z.html#D	Completed
Windows 2000 Server SP4	Windows 2003 (SP1)	OpenEdge 10.2A	Windows 2000 (http://support.microsoft.com/lifecycle/?LN=en-us&x=10&y=6) ▪ General Availability: March 31, 2000 ▪ Mainstream support retired: June 30, 2005 Extended support retired: July 13 2010	Completed
AIX 5L v5.2 + maintenance update 1 + patch IY43963	AIX 5L 5.3	OpenEdge 10.2A	IBM AIX 5L v5.2 (current build platform for OpenEdge 10) (http://www-306.ibm.com/software/support/lifecycle/index_a_z.html#J) • General Availability: 18 Oct 2002 • End of Full Support: 30 Sep 2008	Completed
HP-Compaq Tru64 Operating System	HP-UX PA-RISC HP-UX Itanium	Next major release after OpenEdge 10.1A	In consultation with Hewlett-Packard, OpenEdge 10.1A will be the last release to support Tru64 UNIX. http://h30097.www3.hp.com/tru64_planning.html June 26 2006 Update: Due to customer demand, it is planned that the upcoming OpenEdge 10.1B release will be the last supported edition for the Tru64 platform.	Completed
Oracle 8i support (DataServer for Oracle)	Oracle 10g	OpenEdge 10.2A	Oracle 8i life cycle summary: -Error Correction Support (ECS): 31-DEC-2004 -Extended Support (ES): 31-DEC-2007 -Extended Maintenance Support (EMS): 31-DEC-2006	Completed
Support for Red Hat Enterprise Linux AS 2.1 and 3.0	Linux x86 Red Hat 4.0	OpenEdge 10.1C	March 2007 update: Deployment Support for RH EL 2.1 has ended and will end in July 2007 for RH EL 3.0 OpenEdge build platforms are targeted for platforms that have active maintenance. https://www.redhat.com/security/updates/errata/	Completed
OpenEdge Mobile AppBuilder	Telerik Platform for OpenEdge	11.2 11.5	Mobile app development is available using Telerik Platform for OpenEdge- OpenEdge Mobile AppBuilder is deprecated as of January 2016	Completed

©2019 Progress Software Corporation. All Rights Reserved.

OpenEdge DataServer for ODBC	None	11.6	Progress business decision to de-support OpenEdge DataServer for ODBC	Completed
ISAPI Support with Microsoft IIS Web Server	CGIIP	11.7.2 (this entry was posted on September 18, 2017)	ISAPI is old technology, and Progress is no longer able to support it as of OpenEdge 11.7.2 Customers can continue to download at no charge the OpenEdge 11.6 WebSpeed Messenger and configure it for use with 11.7.x. Customers should plan to move off ISAPI as it will not be supported in OpenEdge 12.0 and beyond. Consider migrating to Progress Application Server (PAS) for OpenEdge, or if staying on the classic OpenEdge Application Server, moving to the use of CGIIP.	Pending 11.7.2 release

©2019 Progress Software Corporation. All Rights Reserved.