



OpenEdge® 12 Platform & Product Availability Guide

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Introduction

The OpenEdge® Platform & Product Availability Guide reflects the current commercial releases for Progress Software's OpenEdge 12 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](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):

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OpenEdge 12 Platforms

						OpenEdge	
OS Vendor	CPU Architecture	Port Code	JDK*	Compiler	Certification Platforms (Version numbers are the minimum certified)	32-bit	64-bit
Microsoft	Windows 2008 R2 32bit (INTEL/AMD)	0031	1.8.0_101 (OE12.0)	Visual Studio 2017	Windows 8.1	✓	
					Windows 10	✓	
	Windows 2008 R2 64bit (INTEL/AMD)	0033	1.8.0_101 (OE12.0)	Visual Studio 2017	Windows Server 2016 (Build Platform)	(F)	✓
					Windows Server 2012 R2	(F)	✓
					Windows 10	(F)	✓
					Windows 8.1	(F)	✓
IBM	AIX 64Bit (POWER)	0037	1.8.0_181 (OE12.0)	XL C/C++ 13.1.3	AIX 7.2 (Build platform)		✓
					AIX 7.1		✓
Linux	Linux 6.6 64Bit (INTEL)	0043	1.8.0_101 (OE12.0)	GCC 4.4.7	Ubuntu 18.04 LTS 64-bit		✓
					Oracle Linux 7		✓
					Red Hat 7 (64-bit)		✓
					CentOS 7 (64-bit)		✓
					SUSE Enterprise Server 11		✓
					SUSE Enterprise Server 12		✓

Java 8 Runtime Certification

Java 8 Runtime is supported on all OpenEdge 12 supported platforms.

OpenEdge Cloud Certification Policy

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 will 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](#).

OpenEdge 12 Product Availability by Platform

Product Category	Product Name	Certification and key functionality details	MS Windows Intel		Linux x64 Intel	IBM AIX	Notes
			32 Bit	64 Bit	64 Bit	64 Bit	
OpenEdge Development	4GL Development System		✓	✓	✓	✓	
	OpenEdge Studio			✓			
	Progress Developer Studio for OpenEdge			✓			
	OpenEdge Ultra Controls for .NET			✓			
OpenEdge Deployment	Client Networking		✓	✓	✓	✓	
	Query/Results		✓	✓	✓	✓	
	OpenEdge Personal RDBMS OpenEdge Workgroup RDBMS OpenEdge Enterprise RDBMS OpenEdge Advanced Enterprise Edition RDBMS	OpenEdge RDBMS (Workgroup, Enterprise and Advanced Enterprise Edition) 4GL & SQL RDBMS support		✓	✓	✓	
		OpenEdge RDBMS (Personal only) 4GL & SQL RDBMS support		✓	✓	✓	
		Support for SQL Stored Procedures		✓	✓	✓	
		Native JDBC Drivers Type-4 v4.0		✓	✓	✓	
		Native JDBC Drivers Type-5 v5.0		✓	✓	✓	
		Cluster Manager Integration (OpenEdge Enterprise RDBMS only)		✓		✓	A
		Native ODBC Drivers (embedded) v5.3		✓	✓	✓	
		Native ODBC Driver (embedded) 7.0		✓	✓	✓	
	Transparent Data Encryption	OpenEdge Enterprise RDBMS OpenEdge Advanced Enterprise Edition RDBMS		✓	✓	✓	
	Multi-tenant Tables	OpenEdge Enterprise RDBMS only OpenEdge Advanced Enterprise Edition RDBMS		✓	✓	✓	G
	WebClient™		✓	✓			
	Table Partitioning			✓	✓	✓	G
	OpenEdge DataServer for Oracle	Oracle 12c R2 (12.2.0.1)	✓	✓	✓	✓	B
		Oracle 12c R1 (12.1.0.2)	✓	✓	✓	✓	B
	OpenEdge DataServer for Microsoft SQL Server	MS SQL Server 2017	✓	✓			
		MS SQL Server 2016	✓	✓			
		Enterprise Edition		✓	✓	✓	
	Progress Application Server for OpenEdge - Production			✓	✓	✓	
	Progress Application Server for OpenEdge - Development			✓	✓	✓	
	OpenEdge Explorer			✓	✓	✓	

Product Category	Product Name	Certification and key functionality details	MS Windows Intel		Linux x64 Intel	IBM AIX	Notes
			32 Bit	64 Bit	64 Bit	64 Bit	
	Adapters	OpenEdge 12 Adapter for SonicMQ					C
		OpenEdge 12 Adapter for Sonic ESB					
	OpenEdge Replication	OpenEdge Replication		✓	✓	✓	
		OpenEdge Replication Plus		✓	✓	✓	
	OpenEdge Management	Standard Edition Console & Trending Database		✓	✓	✓	
		Remote OpenEdge and operating system monitoring		✓	✓	✓	
		SNMP Adapter		✓	✓	✓	

Notes on 64-bit Microsoft Windows GUI Support on OpenEdge

For additional programming-related considerations please see the ABL Reference for OpenEdge 12.0
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 there is no tree view available in the structured procedure's window.
- 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 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)
- 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 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
12.0	4.9	-	3.7.2	4.7.2	1.8.0_101

Tomcat Web Server

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
12.0	9.0

Tomcat Update Policy

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}
```

In addition, 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.

Upcoming OpenEdge Certifications

The list of ongoing or upcoming certifications of OpenEdge 12.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.

- Windows Server 2019
- Windows 10 April 2019 Update

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 Active releases of the OpenEdge platform. Any additional Java certifications for OpenEdge Mature releases is completely at the discretion of Progress Software.

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. 1.8 or 1.11) within 6 to 8 months of the Java release. This document will note the certified version of Java, e.g. OpenEdge 12.0 certifies with Java 1.8.0_xx.
2. Except for the AIX platform, and unless otherwise explicitly noted in this document, the most recent Java patches (e.g. xx – in Java 1.8.0_xx) of a 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 32-bit	Windows 64-bit	IBM AIX 64-bit	Linux 64-bit Intel	Components
OpenEdge Pro2SQL	✓	✓	✓	✓	OpenEdge DataServer for MS SQL Server
					Client Networking

Product	Windows 32-bit	Windows 64-bit	IBM AIX 64-bit	Linux 64-bit Intel	Components
					4GL Development System
					Change Data Capture (Pro2 V5+)
					Pro2 V5.5
OpenEdge Pro2Oracle	✓	✓	✓	✓	OpenEdge DataServer for Oracle
					Client Networking
					4GL Development System
					Change Data Capture (Pro2 V5+)
					Pro2 V5.5
OpenEdge Pro2	✓	✓	✓	✓	OpenEdge Enterprise RDBMS
					Client Networking
					4GL Development System
					Change Data Capture (Pro2 V5+)
					Pro2 V5.5
OpenEdge Pro2Enterprise	✓	✓	✓	✓	OpenEdge DataServer for Oracle
					Client Networking
					4GL Development System
					Change Data Capture (Pro2 V5+)
					Pro2 V5.5

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

Note: The Change Data Capture 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 12:

- Microsoft Windows Server 2016 Failover Clusters (64-bit OpenEdge only)
 - PowerHA 7.1 (HACMP 7.1) with AIX 7.1
- 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 12 is only available as a 64-bit 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 & Aurea 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.

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. 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.
- F. Note on 32-bit and 64-bit x86 environments (Operating System and CPU): OpenEdge 12 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.

G. 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.

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

I. 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		Solaris SPARC	
		32-bit	64-bit	32-bit	64-bit	32-bit	64-bit	32-bit	64-bit
12c R2*	12.2.0.1	✗	12.0	✗	12.0	✗	12.0	✗	12.0
12c R1*	12.1.0.1.0	✗	12.0	✗	12.0	✗	12.0	✗	12.0

✗ : Not certified

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

J. Certification of Microsoft SQL Server 2016 for OpenEdge 12.0 - 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”

K. Certification of Microsoft SQL Server 2017 for OpenEdge 12.0 - Drivers Certified with MS SQL Server 2017:

- 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 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 MSSQL Server”.

Notes on Windows 10

Windows 10 Spring 2018 Update (version-1803) is certified for OE 12.0.

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.

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)

^(NB) Linux environments supported by OpenEdge

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 Ubuntu.

- 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.

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. 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 over time 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:

- 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.

De-supported Features and Functionality List

The following table contains the current list of de-supported features and operating systems for OpenEdge 12. 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
Intentionally Left Blank				

Deprecated Features and Functionality List

The following table contains the current list of deprecated features and operating systems for OpenEdge 12.0. 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
OpenEdge Application Server	Progress Application Server (PAS) for OpenEdge	OpenEdge 12.0	Trade-in Value is available for OpenEdge Application Server licenses that are under a current Maintenance contract, towards the purchase of PAS for OpenEdge.
V9 Debugger	V12 Debugger	OpenEdge 12.0	
Embedded SQL-89/C	None	OpenEdge 12.0	
Translation Manager	None	OpenEdge 12.0	
Progress Dynamics	None	OpenEdge 12.0	Progress Dynamics source code can used and maintained by users in OpenEdge 12.
OpenEdge Replication Synchronous Support	None	OpenEdge 12.0	Not a performant solution
MD5 & RC4 ciphers	Assorted current ciphers	OpenEdge 12.0	Both ciphers have documented vulnerabilities
OpenEdge Deployment on Windows Server 2008 R2	Windows Server 2016	OpenEdge 12.0	Windows Server 2008 is End of Life
OpenEdge Deployment on HP-UX 11i v3	None	OpenEdge 12.0	