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What's New in Progress® OpenEdge® 13.0

Secure, Modern and AI-Ready Applications

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Senior Product Manager

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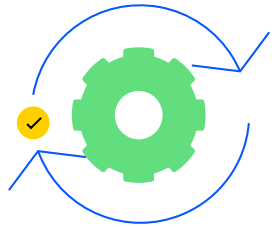
Agenda

- OpenEdge Release Lifecycle
- OpenEdge 13.0 Overview
- New Capabilities by Persona
  - Developers
  - Database Administrators
  - System Administrators
- Voice of the Customer

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OpenEdge Release Life Cycle



LTS Releases

Supported for:
5 Active + 3 Sunset years (11.7, 12.2)
4 Active + 2 Sunset years (12.8)

LTS Retirement:

11.7 - April 1, 2025

12.2 - October 31, 2028 (Sunset 2025)

12.8 - January 31, 2030



Innovation Releases

Shorter-lived and
retire with the next release

The focus is on agility and the ability to innovate

Current: OpenEdge 13.0



Tools

Includes Pro2, Progress® OpenEdge® Command Center, Progress ® OpenEdge® DevOps Framework

These ship on their own cadence, separate from the OpenEdge platform releases

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OpenEdge 13.0 Overview

First release in the OpenEdge 13 series!

Three Key Priorities:

- **Developer Productivity**
- **Operational Efficiency**
- **Security and Compliance**

Goal:
Help customers modernize their applications while continuing to enforce the trusted stability of OpenEdge code

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Developer Productivity

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Developer Productivity



- Scientific Notation Format
- User-Defined Generics
- Built-In AI Coding Assistant in PDSOE
- Certification of .NET 8

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Scientific Notation Support

Summary

Advanced Business Language (ABL) supports both reading and writing numbers in scientific notation (e.g., 1.23E+10), which handles very large or very small numeric values

Syntax

```
m{E|e}[+|-]n
```

Example

1,000,000 is 1×10^6, which is written as:

1E6 (or 1e6, 1E+6, 1e+6, 1.0E6)

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Scientific Notation Support

Notes

- Values are converted to internal DECIMAL format
- DECIMAL values have a limit of 50 digits, including up to ten digits to the right of the decimal point

Benefits

- Eliminates the need for workarounds or manual parsing
- Simplifies code; reduces potential parsing errors
- ABL can integrate with data sources for analytics, scientific applications and REST APIs

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User-Defined Generics

Summary

ABL now supports user-defined generics beyond the earlier generic programming model. Generic types are supported everywhere an OOABL reference can be used.

Syntax

```
/* Define a class using a generic type */
CLASS simpleGeneric<T AS Progress.Lang.Object>:
...

/* Define a variable for the class */
VAR simpleGeneric<person> mysgRef.
```

Generic types are represented using angle bracket notation (<T>).

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User-Defined Generics

Restrictions

- Type arguments cannot be primitive data types

```
VAR SimpleGeneric<int> myGeneric. //compiler error
```

- NEW, CATCH, ENUM, statements
- CAST, TYPE-OF, GET-CLASS functions
- .NET objects or STATIC members

Benefits

- Enables reusable, flexible code structures
- Improves type safety and reduces runtime errors
- Makes large ABL applications easier to maintain

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AI Coding Assistant

Summary

Integrated coding assistant (AssistAI/ChatGPT) in Progress® OpenEdge® Developer Studio (PDSOE)

Benefits

- Generates ABL code snippets within PDSOE
- Minimizes user context switching compared to interacting with GenAI outside PDSOE
- Helps onboard new ABL developers
- Reduces manual, repetitive coding tasks

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Demo

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Demo

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AI Coding Assistance

Solutions

- **OpenEdge AI Assistant (hosted)**

  Integrates directly into your IDE (e.g., VS Code) to generate, refactor and modernize ABL code with organizational rules and context applied.

- **ABL Syntax and Rules (download)**

  Uses markdown (.md) files instead of MCP server to achieve similar results. The main difference is how context is delivered.

* Also available in 12.8, 12.2

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AI Coding Assistant for ABL Accelerator Service



Accelerate AI Adoption in Just 3 Days

Our three-day Professional Services engagement accelerates AI adoption with fully operational IDE setup, MCP integration, customized AI configuration and hands-on training aligned with your development standards.

CONTACT SERVICES TEAM

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AI Coding Assistant for Advanced Business Language (ABL) Accelerator Service



Help your Progress OpenEdge developers quickly adopt AI-assisted workflows to modernize faster, improve code quality and build confidence without disrupting how they work.

REQUEST A CONSULTATION

READ THE WHITEPAPER

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Certification of .NET 8

Summary

OpenEdge 13.0 is certified for **.NET 8**, ensuring compatibility with Microsoft .NET 8 LTS release

Benefits

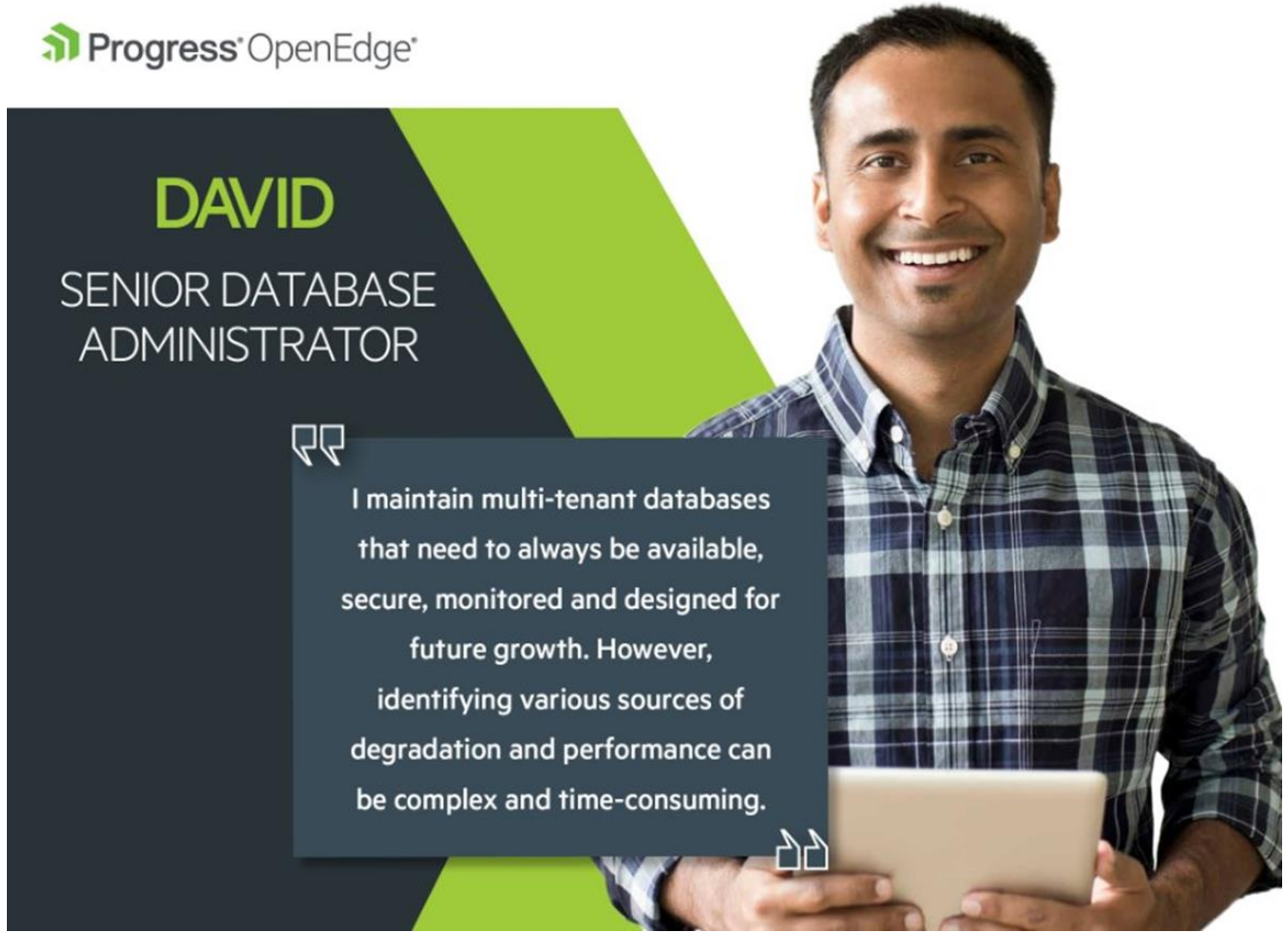
- Access to modern .NET libraries
- Improves performance of applications
- Future-proofs applications built with OpenEdge code and .NET

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Database Operational Efficiency

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DBA Enhancements



- Multithreaded Offline Backup
- Multithreaded Index Check Offline
- Improved Client Database Request Statement Caching
- Increased Configurability of Diagnostic Data Collection

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OpenEdge 13 Database Conversion Utility

Summary

- Replaces 32-bit integer with 64-bit integer to solve Year 2038 problem
- Changes keystore algorithm from SHA-1 to SHA-2 for stronger cryptographic security
- Moves HSM data from object block to master block
- Removes unsupported conditional database features:
  - Large file feature
  - 64-bit DBKeys feature
  - Large keys feature
  - 64-bit sequence feature

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OpenEdge 13 Database Conversion Utility

Syntax

- For databases without replication enabled:

```
proutil db-name –C conv1213
```

- For databases with replication enabled:

```
proutil db-name –C conv1213 replsource conversion-file
```

```
proutil db-name –C conv1213 repltarget conversion-file
```


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Multithreaded Offline Backup

Summary

OpenEdge 13 introduces multi-threaded offline backup that improves the performance of backups for offline databases

Single-user process

- No CRUD operations/backup queue

Database blocks backed up sequentially

- Per area type (Type I/Type II)
- Per storage area number

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Multithreaded Offline Backup

Syntax

probkup *db-name device-name* [-estimate | -vs n |…]
[-thread 0 | 1][-threadnum n][-wbf n]

Multithreaded backups can be customized or disabled with PROBKUP

- -thread 0 | 1: Toggles use of threads
- -threadnum n: Number of threads
- -wbf n: Number of write buffers

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Multithreaded Offline Backup

Benefits

- Improved offline backup process efficiency
  - Backup before repair
  - Backup to create hot-standby/replication target
- Reduces downtime for backup

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Multithreaded Offline Index Check

Summary

Database Administrators can now run index check in offline mode using multiple threads to validate the record for each key and key order

Syntax

```
proutil db-name -C idxcheck [-thread 0 | 1] [-threadnum n]
```

- -thread used to turn threading on/off (on by default)
- -threadnum used to specify number of CPUs desired
- Default value is six, unless there are fewer than six CPUs available

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Multithreaded Offline Index Check

Note

PROUTIL IDXCHECK automatically determines if a server is connected to the database and then decides in which mode to run (online or offline)

Benefits

- Using threads allows parallel execution of serial operations (previously available only in online mode)
  - Both online/offline execution of options 2, 3 and 4 now utilize multiple threads by default
  - Reduces runtimes by large percentages (results may vary)

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Improved Client Statement Caching

Summary

Enables DBAs to monitor ABL and SQL database activity using PROMON or VST, and identify line numbers within an ABL program or SQL statement associated with database requests.

DBAs have more options to configure the client database-request statement caching with new parameters:

- -clstmtCacheLevel
- -clstmtCacheSize
- -clstmtCacheType
- -clstmtCacheAllocationFactor

Additionally, -clstmtCacheDir is now updated

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Improved Client Statement Caching

Benefits

- CSC can now be enabled at database startup
- Configures DB connections to use CSC based on user connection type (e.g., local vs remote, ABL vs SQL, etc.) (-clstmtCacheLevel and -clstmtCacheType)
- Allows online modification of the directory for statement cache files (-clstmtcachedir)
- Configures the size of the client statement cache (-clstmtCacheSize)
- Specifies the number of connections when reserving shared memory (-clstmtCacheAllocationFactor)

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Improved Diagnostic Data Collection

Summary

Diagnostic data collection is now more configurable, allowing DBAs to control what data is captured

Benefits

- Limits repeated diagnostic events of the same type (-diagFrequency)
- Reports diagnostic details for the top ***n*** most prominent event triggers (or offenders) causing the diagnostic event (-diagTopN)

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Security and Compliance Improvements

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Security Improvements



- Support for FIPS 140-3
- ABL Cryptography Enhancements
- Java Open Client Enhanced Security
- Changeable Cipher for SQL Column Statistics Data

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FIPS 140-3 Support

Summary

Federal Information Processing Standards (FIPS) are U.S. government standards for data security and encryption. OpenEdge 13.0 provides initial FIPS support for core components through an OEAS license.

Benefits

- Helps compliance with FIPS 140-3
- Stronger cryptographic algorithms and ciphers
- Competitive advantage in RFPs and contracts requiring certified cryptographic implementations

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Demo

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ABL Cryptography Enhancements

Summary

New ABL cryptography functions and attributes designed to support FIPS 140-3 strengthens security – even when FIPS mode is not enabled.

Benefits

- New password-hashing capabilities
- Expanded control over hashing algorithms, rounds and salts.
- Stricter error handling to prevent weak (non-NIST) algorithms.

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Java Open Client Enhanced Security

Summary

Add enhanced support for configuring Java Open Client applications to be FIPS-compliant

Benefits

- Defines full certificate store details to validate server certificates
- Supports FIPS; reduces security vulnerabilities
- Customizable approach to securing Java Open Client communications

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Configurable Cipher for SQL Column Statistics

Summary

With the OpenEdge platform's SQL engine, you can change the encryption cipher for column statistics in TDE-enabled databases

Benefits

- SQL users can set cipher online; with no downtime
- Provides greater encryption flexibility
- Enables alignment with organizational security policies

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OpenEdge 13.0 New Capabilities

Developer Productivity

- Scientific Notation Format
- User-Defined Generics
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- Certification of .NET 8

Operational Efficiency

- Multithreaded Offline Backup
- Multithreaded Index Check Offline
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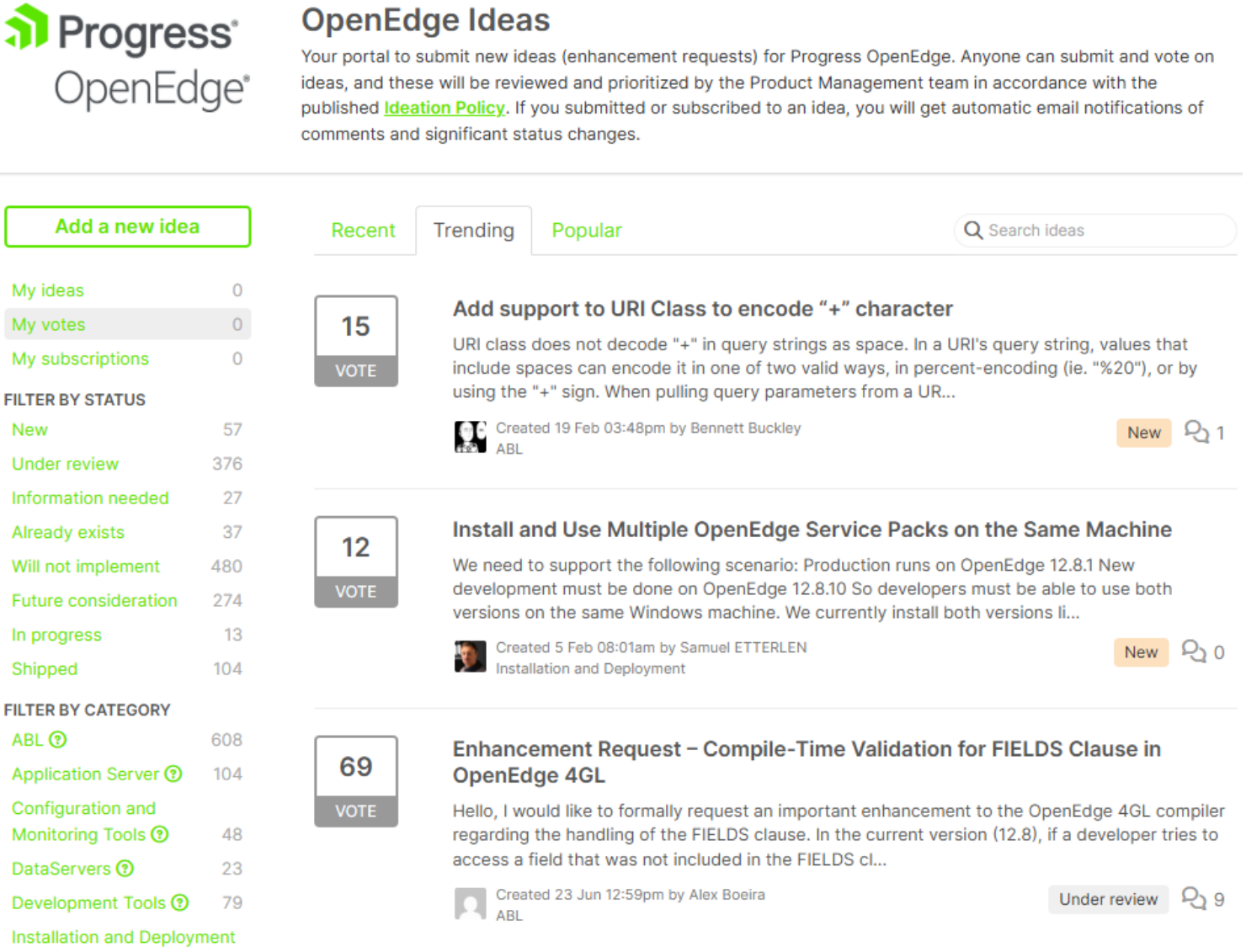
Security Improvements

- Support for FIPS 140-3
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Reference Documents

- What's New in OpenEdge 13: https://docs.progress.com/bundle/openedge-whats-new-13/page/Whats-New-in-OpenEdge-13.0.html#Whats-New-in-OpenEdge-13.0
- OpenEdge Product Life Cycle: https://docs.progress.com/bundle/openedge-life-cycle/page/OpenEdge-Life-Cycle.html
- OpenEdge 13 Platform Compatibility Guide: https://docs.progress.com/bundle/OpenEdge-13-Platform-Compatibility-Guide/resource/OpenEdge-13-Platform-Compatibility-Guide.pdf
- FIPS mode FAQ https://docs.progress.com/bundle/openedge-frequently-asked-questions/page/FIPS-mode-FAQ.html

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