



Postgres Plus Advanced Server 9.4

Release Notes

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**Postgres Plus Advanced Server, Version 9.4.1.3 Release Notes
by EnterpriseDB Corporation
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Table of Contents

[Introduction](#)

[Postgres Plus Advanced Server v9.4 Features](#)

[Deprecated Features in Postgres Plus Advanced Server v9.4](#)

[Installers](#)

[Documentation](#)

[Platform Support and System Requirements](#)

[How to Report Problems](#)

1 Introduction

With this latest release of Postgres Plus Advanced Server, EnterpriseDB continues its leadership as the only worldwide company to deliver innovative and low cost open source derived database solutions with commercial quality, ease of use, compatibility, scalability, and performance for small or large-scale enterprises.

1.1 *Postgres Plus Advanced Server v9.4 Features*

The major highlights of this release are:

- Integration of all PostgreSQL v9.4 features including the following:
 - New data type jsonb.
 - New SQL command ALTER SYSTEM.
 - Reduce lock strength for some ALTER TABLE commands.
 - Allow materialized views to be refreshed without blocking concurrent reads.
 - Add support for logical decoding of WAL data, to allow database changes to be streamed out in a customizable format.
 - Allow background worker processes to be dynamically registered, started and terminated.
 - See <http://www.postgresql.org/docs/devel/static/release-9-4.html> for more information.
- Integration of PostgreSQL v9.4.1 patch that contains a variety of fixes.
 - See <http://www.postgresql.org/docs/devel/static/release-9-4-1.html> for more information.
- EDB Resource Manager:
 - Create and manage Resource Groups that can be set to limit CPU and I/O resource consumption to prevent any single Postgres Plus process from monopolizing resources to the detriment of other processes.
 - See [Chapter 5 of the Postgres Plus Enterprise Edition Guide](#) for more information.
- Hash Partitioning:
 - Configure table partitions such that data is divided amongst equal sized partitions based on a computed hash value.
 - See [Chapter 3.4 of the Postgres Plus Enterprise Edition Guide](#) for more information.
- Improvements to SQL/Protect:
 - View and query from the comprehensive log of SQL injection attack queries via database view edb_sql_protect_queries.
 - See [Chapter 4.1.1.2.3 of the Postgres Plus Enterprise Edition Guide](#) for more information.
- New query tuning / planner method configurations:

- Support for `edb_custom_plan_tries` parameter to control number of custom execution plans considered before planner settles on generic execution plan.
 - See [Chapter 2.1.3.5.1 of the Postgres Plus Advanced Server Enterprise Edition Guide](#) for more information.
- New extended functions to perform operations on URLs
 - Support for `EDB_GET_URL_AS_BYTEA` and `EDB_GET_URL_AS_TEXT`.
 - See [Chapter 3.3.13 of the Postgres Plus Enterprise Edition Guide](#) for more information.
- Unicode Collation Algorithm support:
 - Define alternate collation sequences to support custom sort orders
 - See [Chapter 2.3 of the Postgres Plus Enterprise Edition Guide](#) for more information
- 11th Generation of compatibility with the Oracle Database, including the following: (Remember, you don't have to be an Oracle user to use the following features! Most are simply great database enhancements beyond what PostgreSQL offers.)
 - Support for additional functionality of the `UTL_HTTP` package.
 - Support the `ROLLUP`, `CUBE`, and `GROUPING SETS` clause extensions of `GROUP BY` for multidimensional analysis.
 - `edb_redwood_raw_names` configuration parameter to control whether database object names appear in uppercase or lowercase letters when viewed from Oracle system catalogs.
 - The `CONNECT_BY_ROOT` operator for hierarchical queries.
 - Support for `HASH` partitioned tables.
 - Support for the `ALTER INDEX... REBUILD` command.
 - An `IMMUTABLE` form of the `TO_CHAR(TIMESTAMP, format)` function, which allows creation of an index using such function.
 - The `utl_file.umask` configuration parameter to set file permissions for the `UTL_FILE` package.
 - See [Chapter 1.1 of the Postgres Plus Advanced Server Oracle Compatibility Guide](#) for more information.
- OCI Connector enhancements:
 - Support for `EDB_ATTR_STMT_LEVEL TX`, new `LOB` functions, `OCIPGErrorGet` and `WITH HOLD` cursors.
 - See [Chapter 9.4 of the Postgres Plus Advanced Server Oracle Compatibility Guide](#) for more information.
- Migration Toolkit enhancements:
 - Generate a count of database objects that are not migrated due to warnings or errors and display error codes for error and warning messages.
 - Migration of Oracle or Postgres materialized views with the `-allViews` and `-views` options.
 - The `-useOraCase` option to preserve the Oracle default, uppercase naming convention.

- The -logBadSQL option to save the DDL statements of database objects for which migration failed.
- See [Chapter 1.1 of the Postgres Plus Migration Guide](#) for more information.
- Improvements to EDB*Loader
 - Use of environment variables in the control file for directory paths and file names.
 - The PRESERVE BLANKS clause for preserving leading and trailing white space
 - The DISCARDMAX and DISCARDS clauses for limiting the number of discarded input data records
 - The DATA command line parameter, data conversion using the CHARACTERSET clause for loading data in a different character set encoding than the target database character set encoding, and assignment of an EDB*Loader session to an EDB Resource Manager resource group.
 - See [Section 6.1 of the Postgres Plus Enterprise Edition Guide](#) for more information

1.2 ***Deprecated Features in Postgres Plus Advanced Server v9.4***

Deprecated features are still supported however there are no planned enhancements and they may be removed in a future release. Please contact your EnterpriseDB Account Manager or <mailto:sales@enterprisedb.com> for more information if you are using these features.

- The `edb_get_server_processes()` and `edb_get_process_utilizations()` functions have been deprecated in Advanced Server version 9.4 and will be removed in version 9.5.
- Infinite Cache has been deprecated and may be removed in a future release.

2 Installers

Postgres Plus Advanced Server v9.4 is packaged and delivered as a series of GUI installers or RPM packages.

GUI Installers can be downloaded from the EnterpriseDB web site:

<http://www.enterprisedb.com/downloads/>

RPM packages can be accessed from our yum.enterprisedb.com repository. If you don't have access, customers can contact your account representative or log a support ticket, and prospects can contact sales@enterprisedb.com.

Please refer to the [Postgres Plus Installation Guide](#) for installation and configuration steps.

3 Documentation

Installation, configuration, setup and management instructions for Postgres Plus Advanced Server v9.4 are available in the user documentation found here:

<http://www.enterprisedb.com/documentation>

Please note that subscription holders can also access PDF versions of the documentation by logging into the EnterpriseDB website, and visiting the customer portal at:

<http://www.enterprisedb.com/support>

4 Platform Support and System Requirements

Postgres Plus Advanced Server v9.4 supports 64 bit Linux and Windows server platforms. Details on supported platforms is available on the EnterpriseDB website:

<http://www.enterprisedb.com/ppas-platform-support>

5 How to Report Problems

To report any issues you are having please contact EnterpriseDB's technical support staff:

- Email: support@enterprisedb.com
- Phone: +1-732-331-1320 or 1-800-235-5891 (US Only)