Elipse Water

Release
Notes

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Elipse Water Release Notes

Table of Contents

Introduction

Thanks for choosing **Elipse Software** products! We are proud to offer the best solution for your needs.

Elipse Water's new version **6.8** presents new tools and resources that focus on the development of control and supervisory applications for water and wastewater management. This document contains information about these resources.

For any additional information, please contact us by phone at **(+55 51) 4062-5824** in **Brazil**, at **(+886 7) 323-8468** in **Taiwan**, or at **(+1 919) 642-2423** in the U.S. You can also contact us by e-mail at *suporte-br@elipse.com.br*.

Version 6.8

This section contains updates of version **6.8** of **Elipse Water**. To check all updates of this version, please refer to the next topics of all Builds or, to check updates of a Build relative to a previous one, please refer to that specific topic.

2.1 Version 6.8 Build 128

This section contains updates of version **6.8.128** of **Elipse Water** relative to version **6.7.234**.

2.1.1 New Features

This section contains new implementations in version **6.8.128** of **Elipse Water**.

2.1.1.1 Data Server

- The data type of the **Value** property of a Demo Tag is now a **Variant**, and contains a **Date** value in the **CurrentTime** type and a **Double** value in all other types.

2.1.1.2 Database

- The **datetime2** data type is now used by default for timestamps in SQL Server databases.

2.1.1.3 Documentation

- Updated the address of the website of **Elipse Software**'s ODL platform on **Elipse Water**'s documentation.
- Updated the descriptions of **RemoveFromServiceCurrentFilter** and **RemoveFromServiceSelected** methods of E3Alarm object on **Elipse Water Reference and Scripts Manual**.
- Updated the possible values of **DomainState** and **State** properties of Domain Servers Information object on **Elipse Water Reference and Scripts Manual**.
- Updated the names of documentation files of **Elipse Water** in **CHM** and **PDF** formats.
- Updated the description of the **ConditionName** property, common to all Alarm Sources, on **Elipse Water**'s documentation.
- Updated the supported operating systems on **Elipse Water Installation Guide**.

2.1.1.4 Domain, E3 Server, and Hot-Standby

- Improved the performance of searching objects in **E3Run**'s namespace.
- Added support for timezone offsets in the communication between **Elipse Water** processes in different computers.

2.1.1.5 Drivers and I/O Server

- Changed the logic of the Pool of I/O Server Processes to never exceed the limit configured of Drivers per Process.

2.1.1.6 E3 Tweak

- Removed the option to periodically release memory to the operating system (*DisableMinimizeHeap*), which is not supported anymore.

2.1.1.7 E3Browser

- Improved logs of E3Browser's connection and disconnection.
- Implemented the **RightClickRefresh** property and the **Refresh** method in E3Browser.

2.1.1.8 E3Chart

- Improved the performance of searching historical Tags from **EPM** by calculating the *NodeId* of the **CollectSource** property instead of performing a browse service.
- Implemented a block reading of the properties of historical Tags in **EPM**.
- Created an option to configure the update time of information in Automatic Pens.

2.1.1.9 Elipse Water: Demonstration Application

- Implemented improvements and corrections in the demonstration application of **Elipse Water**.

2.1.1.10 Elipse Water: Importing and Syncing Objects

- Changed the syncing logic of **Elipse Water** data objects to add a "_Renamed" suffix to names of objects that must release a name in use in the model.

2.1.1.11 Installation

- Integrated eeLogs version 4.5.284.

2.1.1.12 Links

- Links specified with different combinations of brackets in the name are now unified by the Link manager of **Elipse Water Viewer** and **E3Run**.
- Slightly optimized the time for searching objects by name.

2.1.1.13 OPC UA Driver and OPC UA Client

- Implemented an editor of *NodeIds* in OPC UA Driver and OPC UA Query views.

2.1.1.14 Other Implementations

- The log of servers and clients now registers if warning messages from servers existed.
- Improved the performance of several locations in **Elipse Water** in which *Property Bags* are used with a dynamic number of properties.
- Reduced the occurrence of **I00592**-type messages in logs of applications without circular chaining of Links.

2.1.1.15 Protection Device

- Now the **E3 Admin** licenses window lists **Elipse Software** libraries programmed in the license.

2.1.1.16 Reports

- Now users can access **Elipse Water** objects in Section Report scripts.
- Now users can access the **OutputFormat** property of Label and TextBox objects of Section Reports.
- Implemented new properties in the Section Report to configure the appearance of the print preview window.
- Implemented the **GetExportFilter** method to configure the export options of Section Reports.

2.1.1.17 Scripts Editor

- The Search or Replace windows in scripts now regain focus in the search field.

2.1.2 Fixed Bugs

This section contains bugs fixed in version **6.8.128** of **Elipse Water**.

2.1.2.1 Alarm Server and Alarm Configuration

- Now an Alarm suppressed by shelving or by out-of-service cannot be suppressed by design. *This bug occurred since v6.5.49.*
- Added protections when using the **GetAlarm** method to change Alarm Sources.
- Optimized loading and saving Discrete Alarms with a large number of Subconditions. *This bug occurred since v4.0.56.*

2.1.2.2 Database

- Removed excessive "Thread E3DBEngine.AsyncRowset FINISHED" messages from **Elipse Water** logs. *This bug occurred since v6.7.185.*
- Synchronous Queries (the ones using the **GetADORecordset** method) now respect the values configured in the **CursorType** and **CursorLocation** properties, unlike the previous behavior, in which the values of these properties were fixed in **ctKeyset** and **clClient**, respectively. *This bug occurred since v1.20.105.*

2.1.2.3 Documentation

- Added a note on the topic about new implementations of OPC UA Server of **Elipse Water Release Notes** in version **6.6** to indicate that the OPC UA Server is only available in 64-bit versions of **Elipse Water**. *This bug occurred since v6.6.292.*

- Updated the description of the option to expose objects in the OPC UA Server on the **OPC UA Server** tab of the options of a Domain on **Elipse Water User's Manual** to indicate that any object can be exposed. *This bug occurred since v6.6.261.*

- Updated the description of the **Export** method of the Section Report object on **Elipse Water Reference and Scripts Manual**. *This bug occurred since v6.6.231.*

2.1.2.4 Domain Verifier

- Improved the checking of invalid Links in **Elipse Water Studio**.

2.1.2.5 Domain, E3 Server, and Hot-Standby

- Fixed a GPF (*General Protection Failure*) when saving a container during its update.

- Fixed a deadlock when an **E3 Server** closes due to license issues while having clients connected. *This bug occurred since v6.0.68.*

- Implemented a retrofit block of changes performed in a Domain file, which avoids that a pair of servers get into a loop, one sending Domain changes to the other.

2.1.2.6 E2Control

- Fixed an unexpected closing of **Elipse Water Viewer** when using an E2Button control to toggle between Screens. *This bug occurred since v3.0.219.*

2.1.2.7 E3 Admin

- Fixed the default values of the properties of grouping asynchronous operations on the **Properties** tab of a Domain, as well as other inconsistencies on this window. *This bug occurred since v5.6.32.*

2.1.2.8 E3 Tweak

- Fixed a problem that prevented accepting the value 0 (zero) in the **E3 Server - Define Desktop Heap Size** item. *This bug occurred since v6.0.147.*

2.1.2.9 E3Alarm

- The tip of an E3Alarm is now displayed correctly when in modal windows. *This bug occurred since v5.0.39.*

2.1.2.10 E3Browser

- Fixed an incorrect behavior when clicking the options on an E3Browser's toolbar, which was expanding the selection in case of any cell being selected, instead of only selecting the clicked cell.

- The **Click** and **ButtonUp** events now work correctly in E3Browser cells that display tips. *This bug occurred since v4.5.252.*

2.1.2.11 E3Chart

- Now a new search of Tags from **EPM** is only performed again after the Automatic Pen manager registers the Tags found on the previous search. *This bug occurred since v6.5.64.*

- Now the historian does not reserve memory for all Tags when the on-demand option is configured, only after receiving a request for the Tag. *This bug occurred since v5.0.129.*

- Improved support in TrendAnalysis for time gaps between **Elipse Water Viewer** and **E3 Server**. *This bug occurred since v6.6.102.*

2.1.2.12 Elipse Water: Data Objects

- Fixed the initial color of a Terminal, which must be the color for the depressurized status. *This bug occurred since v6.7.129.*

2.1.2.13 Elipse Water: Standard Libraries

- Implemented corrections in the **WaterControl** library.
- Implemented corrections in the **WaterDisplay** library. *This bug occurred since v6.7.157.*

2.1.2.14 Elipse Water: XdbCad and Hydraulic Modeler

- Updated the SQLite library to version 3.45.3, which fixes improper *double-quoted string* messages. *This bug occurred since v6.5.17.*
- Fixed the behavior of Hydraulic Modeler after opening a connection via Remote Desktop. *This bug occurred since v4.7.218.*

2.1.2.15 Frame

- Fixed the Splitter's **ShowScreen** method to update the history of open Screens. *This bug occurred since v5.5.7.*

2.1.2.16 Installation

- Now the **Bin32** folder correctly references the translated file of XDBLib library. *This bug occurred since v4.7.143.*

2.1.2.17 Links

- Improved the performance of initializing or updating applications with many wrong local Links.

2.1.2.18 OPC UA Driver and OPC UA Client

- Now the OPC UA Driver performs a browse service using a limit of 1000 references per result. *This bug occurred since v4.5.176.*
- Fixed the request rate of publishes with several Subscriptions. *This bug occurred since v6.7.226.*

2.1.2.19 Other Corrections

- Fixed a GPF (*General Protection Failure*) that could occur when changing the **Value** or **RawValue** properties of a Tag during the propagation of another value with type **String** or **Array** from the same Tag. *This bug occurred since v4.0.168.*
- Implemented an automatic partitioning of statistical logs of threads of **Elipse Water** processes. *This bug occurred since v4.8.137.*

2.1.2.20 Protection Device

- Remote Domain licenses now can be reduced without restarting **E3 Server**, if they are not in use. *This bug occurred since v4.0.133.*

2.1.2.21 Reports

- Now a Section Report shows a preview even when there is an error in its Query. *This bug occurred since v6.6.241.*
- Now the **GetScreenObject** method of a Section Report correctly accepts a Screen as its parameter. *This bug occurred since v6.8.19.*
- Fixed the behavior of the **Caption** property of Section Reports. *This bug occurred since v6.6.241.*

2.1.2.22 Scripts

- Fixed a memory leak in objects that contain events with scripts. *This bug occurred since v5.0.58.*

2.1.2.23 Security

- Improved the performance with Windows AD (*Active Directory*) services that contain non-standard names. *This bug occurred since v6.6.87.*

2.1.2.24 Studio

- Fixed a GPF (*General Protection Failure*) when right-clicking an item being renamed in Organizer. *This bug occurred since v3.0.179.*
- **Elipse Water Studio** now keeps files closed when there is no memory to open them.

2.1.2.25 TrendAnalysis

- Now Pens with periods without data do not lock TrendAnalysis anymore. *This bug occurred since v6.7.208.*

- Automatic Pens and the TrendAnalysis now always return a point before and after the limits of the request for historical Tags from **EPM**. *This bug occurred since v6.0.197.*

2.1.2.26 Viewer

- Fixed a GPF (*General Protection Failure*) when opening a Screen containing a *WebView*.

- The **Elipse Water Viewer**'s **OnLogout** event now only occurs when the active user becomes an anonymous user. *This bug occurred since v3.1.110.*

This section contains updates of version **6.7** of **Elipse Water**.

3.1 Version 6.7 Build 234

This section contains updates of version **6.7.234** of **Elipse Water**.

3.1.1 New Features

This section contains new implementations in version **6.7.234** of **Elipse Water**.

3.1.1.1 Alarm Server and Alarm Configuration

- Implemented the Alarm statuses **Inactive** and **Shelved**.

3.1.1.2 Domain, E3 Server, and Hot-Standby

- Added logs to help analyzing the performance of the operations to start, stop, and update a Domain.

3.1.1.3 Interface

- Added the keyboard shortcut ALT + . (dot) for windows with the ⌐⌐⌐ option.

3.1.1.4 OPC UA Driver and OPC UA Client

- Implemented a log with statistics relative to readings by subscription of the OPC UA Client.
- Created the **PublishLimit** property in the OPC UA Driver.

3.1.1.5 OPC UA Server

- Implemented authentication by user and password in OPC UA Server.

3.1.1.6 Protection Device

- Updated the installer of HKCustomer to version 6.0.120.

3.1.1.7 Screen Objects

- Added the **FlipHorizontal** and **FlipVertical** properties in Screen objects.
- Added the **IgnoreFlipHorizontal** and **IgnoreFlipVertical** properties in the Picture object.

3.1.2 Fixed Bugs

This section contains bugs fixed in version **6.7.234** of **Elipse Water**.

3.1.2.1 E3Chart

- Pens on an E3Chart now work better with database fields with complex names and expressions. *This bug occurred since v4.5.104*.

3.1.2.2 Elipse Water: Importing and Syncing Objects

- Fixed a memory leak when accessing the Import to Screen Preferences window of Water Configuration object. *This bug occurred since v4.7.48*.
- Implemented improvements on the **Libraries** tab of the Import to Screen Preferences window of Water Configuration object. *This bug occurred since v4.7.76*.

3.1.2.3 Elipse Water: XdbCad and Hydraulic Modeler

- Fixed the auto-incrementing of names on the Type Editor of Hydraulic Modeler. *This bug occurred since v3.5.183*.

3.1.2.4 OPC UA Driver and OPC UA Client

- Fixed the handling of the **OpcUa_BadTooManyPublishRequests** error in the OPC UA Client of **Elipse Water**. *This bug occurred since v4.8.269.*

3.1.2.5 Query

- Now users can configure the type of database of a Query by script. *This bug occurred since v6.5.66.*
- Pens fields now are not case-sensitive, if possible. *This bug occurred since v6.5.69.*

3.1.2.6 Reports

- Updated the ActiveReports component to version 17.3, which fixes a problem when exporting Reports containing E3Chart objects. *This bug occurred since v6.7.97.*

3.1.2.7 Screen Objects

- Reduced the blinking effect during a switch of Screens with a solid background color. *This bug occurred since v1.21.98.*
- The Picture object now supports horizontal or vertical flipping and also drawing with transparency, using the values **1**: ByColor and **2**: ByPercent of the **TransparentMode** property, of icons and cursors.

3.1.2.8 Studio

- Reintroduced the option to insert Screens of the contextual menu of project files in Organizer's **Explorer** mode. *This bug occurred since v6.7.97.*

3.1.2.9 TrendAnalysis

- Improved the canceling of updates of a pen in TrendAnalysis, thus releasing resources more quickly. *This bug occurred since v6.0.185.*

Porto Alegre — RS

Rua Mostardeiro, 322/Cj. 902

90430 — Porto Alegre — RS

(+55 51) 4062-5824

elipse-rs@elipse.com.br

São Paulo — SP

Rua dos Pinheiros, 870/Cj. 141/142

05422-001 — São Paulo — SP

(+55 11) 4062-5824

elipse-sp@elipse.com.br

Kaohsiung — Taiwan

9F., No.12, Beiping 2nd St., Sanmin Dist.

807 — Kaohsiung City — Taiwan

(+886 7) 323-8468

sales@elipse.com.tw

Raleigh — USA

555 Fayetteville St.

27601 — Raleigh — NC

(+1 919) 642-2423

sales@elipse-software.com

Curitiba — PR

(+55 41) 4062-5824

elipse-pr@elipse.com.br

Belo Horizonte — MG

(+55 31) 4062-5824

elipse-mg@elipse.com.br

Rio de Janeiro — RJ

(+55 21) 4062-5824

elipse-rj@elipse.com.br

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