# WINDEV® Suite

## 900 NEW FEATURES

Built-in conversational AI
Grid-based layout
HFSQL: Semantic search
HFSQL: UnixODBC driver
SCM: Local history
GraphQL
AI Chat control
Code security audit
Code editor: Third-party language support
WINDEV: Hot reload
Web browser input masks
OpenStreetMap
WEBDEV Pivot Table
CSP JavaScript security
Smart card signature
HTTP stream consumption & generation
300 New WLanguage elements for
Windows, iOS, Android, Linux, Web, Java, PHP....

### NEW VERSION

# 2026

## DEVELOP 10 TIMES FASTER

# DEVELOP 10 TIMES FASTER

## Version 2026

**brings you an incredible number of useful new features: Conversational AI, palettes, secure web services, SSO automation, semantic search in HFSQL, GraphQL for web services, code security audit, Pivot Table controls in WEBDEV, and more.**

Version 2026 brings your teams 900 essential new features.

The ability to capitalize on your experience while taking advantage of new technologies and new tools is one of the main advantages of version 2026.

These new features meet your needs, while maintaining compatibility with your existing projects.

WINDEV 2026, WEBDEV 2026 and WINDEV Mobile 2026 are your working tools. Our main goal is to help you succeed, regardless of the environment and devices your projects are aimed at.

Version 2026 will instantly become your favorite version.

## SUBSCRIBE TODAY

AVAILABLE FROM 2025!

# CONVERSATIONAL AI IN THE ENVIRONMENT

**Companion**

I'm looking for a process that archives supplier invoices.

1. I'm going to search for invoice processing procedures

● Reading project procedures

2. I'm going to analyze the processing carried out by these procedures.

● Code reading

3. Here's a process you can follow to archive supplier invoices:

```
// Archive an invoice using its ID
PROCEDURE ArchiveInvoice (LOCAL invoice ID)
```

Ask a question

## 001   New feature WD WB WM
### ASK A QUESTION IN YOUR IDE & LET AI GIVE YOU AN ANSWER

Now, you can directly ask project-related questions within the development environment. The new AI-powered chat will help you find the answers you are looking for.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*The future is now*

## 002   New feature WD WB WM
### DESCRIBE A TASK AND WATCH MAGIC UNFOLD

The environment can also perform the tasks you ask it to perform on your project: "Generate a query that selects the customers in a specific state", "Create a data file to store orders", "Change all variables to uppercase", etc.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Endless possibilities*

# CONVERSATIONAL AI IN THE ENVIRONMENT

Gemini  ·  MISTRAL AI_  ·  ChatGPT  ·  Grok  ·  Claude  ·  OpenRouter

## WINDEV Suite

### CONVERSATION EXAMPLE

**AI Companion**

> A user found the following integrity error when creating a new product category:
> <<Integrity error on PRODUCT_CATEGORY>>
> Can you fix this error?

OK. I'm analyzing the current project...

Your project contains several configurations.
In which configuration did the user encounter the problem?

> In a 64-bit application

1. I will analyze the 64-bit executable configuration of your project and look for product category creation processes.

● Reading project procedures...

2. I found the <enter_category> procedure. I will analyze its code.

● Analyzing code...

2. I found the <add_category> procedure. I will analyze its code.

● Fixing the <add_category> procedure...

Ask a question

---

**003** — New feature WD WB WM
### INTUITIVE APPROACH TO CODING THANKS TO THE POWER OF AI

The conversational AI system answers all your project-related questions.
You can ask questions about the code of your project and its components.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*See your project come to life*

**004** — New feature WD WB WM
### ASK THE ENVIRONMENT TO TAKE ACTION FOR YOU

Conversational AI takes action on your projects.
You can create projects, analyses, data files, queries or procedures.
You can write all these requests using natural language.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Save time, let AI do it for you*

**005** — New feature WD WB WM
### IMPROVE YOUR PROJECTS THROUGH ACTUAL CONVERSATIONS WITH AI

One of the advantages of conversational AI is that you can refine and clarify your requests.
AI can also ask questions for further clarification.
This translates into precise results.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*To try it is to adopt it*

**006** — New feature WD WB WM
### USE THE MODEL OF YOUR CHOICE: CLAUDE, MISTRAL, CHATGPT, GEMINI, ETC.

You can use the model of your choice within the environment: Claude, Mistral, ChatGPT, Gemini, OpenRouter, etc.
Depending on the chosen model, you will need to open an account with access to their APIs.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Your projects, your choice*

---

```
WL     Procédure globale OrderDeliveryMode
 1     // Summary: Used to retrieve the delivery
 2     // Syntax:
 3     //[ <Result> = ] OrderDeliveryModeToStri
 4     //
 5     // Parameters:
 6     //  nDeliveryMode: Code of delivery mode
 7     // Return value:
 8     //  ANSI string: Delivery mode in plain l
 9
10     procédure OrderDeliveryModeToString(nDeli
11
12     sDeliveryPaymentMode is string
13
14     switch nDeliveryMode
15        case DELIV_NORMAL
16           sDeliveryPaymentMode = "Normal"
17        case DELIV_ACK
18           sDeliveryPaymentMode = "Acknowledg
19        case DELIV_CARRIER
20           sDeliveryPaymentMode = "ShippingC
21        other case
22           dbgAssert(False,"Unable to find t
23           sDeliveryPaymentMode = "<Unknown>"
24     end
25
26     result sDeliveryPaymentMode

WL     Procédure globale OrderListStates
 1     // Summary: Used to retrieve the possible
 2     // Syntax:
 3     //[ <Result> = ] OrderListStates ()
 4     //
 5     // Parameters:
 6     //  None
 7     // Return value:
 8     //  ANSI string: List of possible states
 9
10     procédure OrderListStates()
11
12     sPossibleStates is string
13     sPossibleStates = "Waiting for payment" +
14
15     result sPossibleStates
```

## 007 COME BACK TO A PREVIOUS CONVERSATION

New feature WD WB WM

Your conversations are personal.
They are saved separately, by project, on your machine. Even if you close the environment, all your conversations are preserved.
This means you can reopen a previous conversation at any time.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*All the answers, always available*

## 008 AI LEARNS EVERYTHING ABOUT YOUR PROJECT TO ANSWER YOUR QUESTIONS

New feature WD WB WM

The AI companion has access to all the information and elements of your project.
Answers are precise and tailored to your project, your code and your needs.
AI can control your development environment to edit your project, if necessary.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*A companion that knows your project as well as you do*

## 009 UNDO ONE OR MULTIPLE ACTIONS

New feature WD WB WM

If you're not satisfied with one or more actions performed by the AI companion, you can undo them.
A history of all changes made is saved directly on your machine.
See New feature 096.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Keep only the changes you want to make*

# GRID CONTROL

## 010 A NEW CONTROL

New feature WD WB WM

The Grid control is a relative positioning grid, available for WINDEV and WINDEV Mobile.
This grid allows you to align controls horizontally or vertically, without the need for pixel-based positioning.
The positioning method consists in nesting containers.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*A new, intuitive layout system*

## 011 A COMPLEMENT TO FLEXBOX

New feature WD WB WM

Flexbox containers can be used to nest and position controls in relative, vertical or horizontal layout.
The new Grid control maintains alignment between containers and individual controls.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Choose the best positioning mode*

## 016 USE CASE: MULTILINGUAL UI

New feature WD WB WM

In a multilingual application, the space occupied by text changes from one language to another.
For example, text in English will often be longer when translated to French, and even longer in Spanish.
To maintain a consistent UI across languages, simply use the positioning grid.
The grid can be used to position controls in specific areas.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Adaptive UI with a single control*

## 012 VISUAL GRID EDITING

New feature WD WM

The grid is based on a fixed number of rows and columns.
Simply indicate how these rows and columns should react when the control is resized:
• fixed size
• anchored to content.
• anchored horizontally or vertically.
Controls and containers are positioned in cells.
You can merge cells horizontally or vertically.
The Grid control is always in WYSIWYG mode. All changes are reflected immediately.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Perfect positioning, no surprises at runtime*

## 013 NESTED ELEMENTS

New feature WD WB WM

This control allows you to build entire UIs by nesting controls.
You can place a grid inside a grid, a grid inside a flexbox or a flexbox inside a grid. Any combination is possible.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Countless layout possibilities*

## 014 HOW A CELL WORKS

New feature WD WM

Controls are positioned in relation to the upper left corner of their containing cell.
A cell can contain several controls.
You can set anchors for each control within the cell.
These anchors are relative to the cell size.
The size of the cell is defined by the grid row and column settings.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Positioning at grid or cell level*

## 015 USE IN THE CODE

New feature WD WM

In addition to the visual editing mode, you can edit the grid programmatically:
• add rows and columns
• delete rows and columns., etc.
This makes it possible to hide controls while preserving the correct alignment, for example.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*You are always in control*

| Link | URL | ... |
| E-mail | Input field | |
| Sales agent status | New | |

Save contact

| Lien | Lien URL | ... |
| Adresse e-mail | Champ de saisie | |
| Status du commercial | Nouveau | |

Enregistrer le contact

| Enlace | URL | ... |
| Dirección de correo electrónico | Campo de entrada | |
| Estado del representante de ventas | Nuevo | |

Guardar contacto
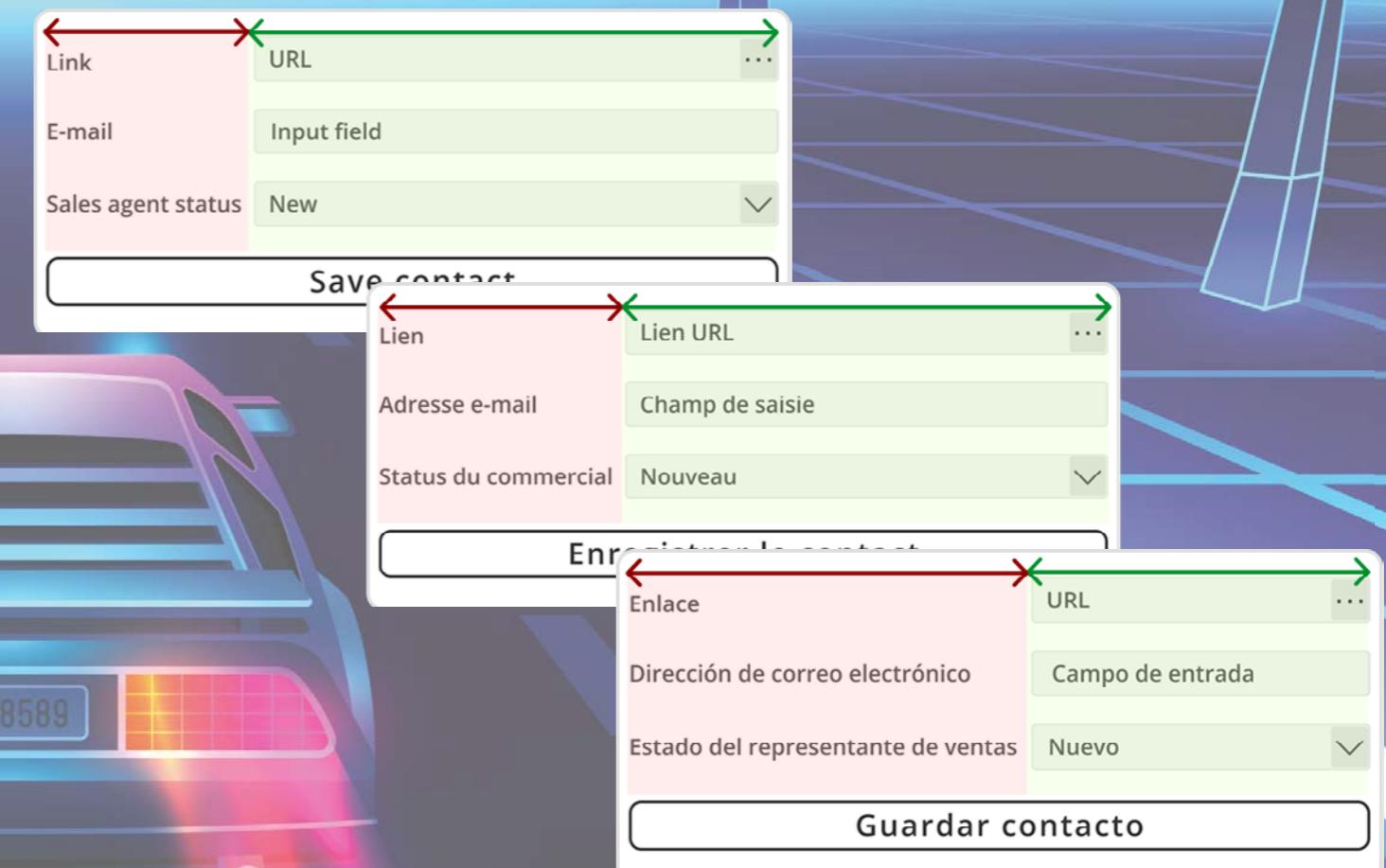
# NEW CONTROL FEATURES

## 017
New feature WD WB WM
### NEW AI CHAT CONTROL

The new AI Chat control makes it possible to connect a WINDEV application with any major AI model.
See New feature 229.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*AI-powered chat for end users*

## 018
New feature WD WB WM
### STYLE BUTTONS IN EDIT CONTROLS

Edit controls can include buttons to the left or right of the input field. Some examples include search and delete icons, ellipses, etc. In version 2026, you can define the style of these buttons.
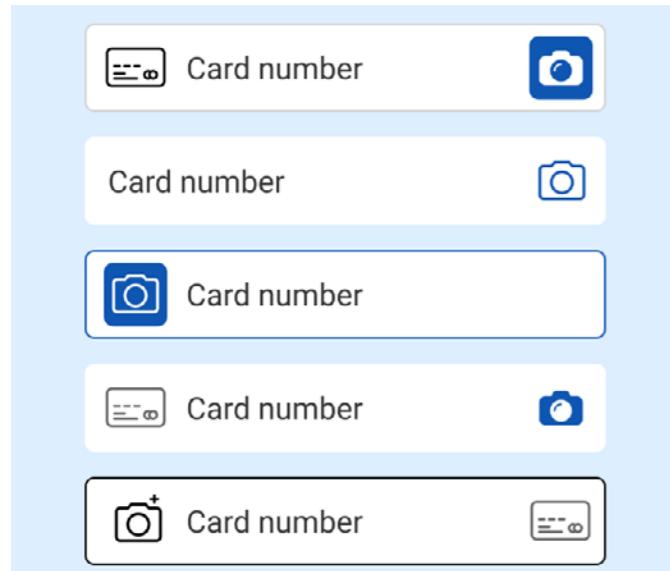


*Different camera icon styles*

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*A touch of style*

## 019
New feature WD WB WM
### PIVOT TABLE CONTROL: PRESERVE LAYOUT

The Pivot Table control now defaults to the layout options set by the end user, such as expanded and collapsed areas, widths, etc. See New feature 274.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*End-user settings are preserved*

## 020
New feature WD WB WM
### PIVOT TABLE CONTROL: ASYNCHRONOUS CALCULATION

In version 2026, the contents of a Pivot Table control can be calculated asynchronously (`PVTCalculateAllAsynchronous` function).

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Avoid blocking end users*

## 021
New feature WD WB WM
### HORIZONTAL LOOPER CONTROL: DIFFERENT CONTENT PER CELL

Horizontal Loopers now use Internal Windows as content.
This allows you to have different contents in each cell.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Same layout, more freedom*

# 10 NEW SMART CONTROLS

## 022
New feature WD WB WM
### 10 NEW SMART CONTROLS

Version 2026 features 10 new Smart controls:
- 6 new segmented buttons
- Product Looper
- Event Looper
- IBAN input with document analysis
- SIREN number with autocomplete
- Google reviews (WEBDEV)
- Social networks (WEBDEV)
- Hero section with time range search (WEBDEV)
- Combo Box with search (WEBDEV)
- Token input with suggestions (WINDEV Mobile)

You can find these Smart controls directly in the corresponding sections: new features 241 to 245 for WINDEV 2026, 521 to 525 for WEBDEV 2026 and 736 to 737 for WINDEV Mobile 2026.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*More powerful apps in a few clicks*

# WORD PROCESSING AND SPREADSHEET CONTROLS

New feature WD WB WM

## 023 to 042
### SPREADSHEET CONTROL: 20 NEW FORMULAS

20 new formulas are available for the Spreadsheet control

- Statistical formulas

| LINEST | Calculate the statistics of a line using the least-squares method |
|---|---|

- Mathematical formulas and trigonometry

| ACOT (Excel 2013) | Returns the arccotangent of a number |
|---|---|
| ACOTH (Excel 2013) | Returns the hyperbolic arccotangent of a number |

- Engineering formulas

| COMPLEX | Converts real and imaginary coefficients into a complex number |
|---|---|
| SUM COMPLEX | Returns the sum of two or more complex numbers |
| COMPLEX.DIFFERENCE | Returns the difference between two complex numbers |
| COMPLEX.PRODUCT | Returns the product of two or more complex numbers |
| COMPLEX.DIV | Returns the quotient of two complex numbers |
| COMPLEX.EXP | Returns the exponential function of a complex number |
| COMPLEX.LN | Returns the natural logarithm of a complex number |
| COMPLEX.MODULE | Returns the absolute value (modulus) of a complex number |
| IMAGINARY.COMPLEX | Returns the imaginary coefficient of a complex number |
| COMPLEX.REAL | Returns the real coefficient of a complex number |
| COMPLEX.ARGUMENT | Returns the angle expressed in radians of a complex number |
| COMPLEX.CONJUGATE | Returns the conjugate of a complex number |
| COMPLEX.SIN | Returns the sine of a complex number |
| COMPLEX.SINH | Returns the hyperbolic sine of a complex number |
| COMPLEX.COS | Returns the Cosine of a complex number |
| COMPLEX.COSH | Returns the hyperbolic Cosine of a complex number |
| COMPLEX.COT | Returns the cotangent of a complex number |

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Choose the right formula!*

## 043
New feature WD WB WM
### WORD PROCESSING CONTROL: START A NEW LIST NUMBERING

Numbered lists in the Word Processing control now allow end users to restart numbering at 1.
This feature is available via the context menu.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*1, 2, 3 …. 1, 2, 3, …*

# NEW CHART CONTROL

## 044
New feature WD WB WM
### NEW CHART CONTROL: NESTED PROPORTIONAL AREAS

Version 2026 introduces a new type of chart: Nested Proportional Areas.

This type of chart allows users to easily compare proportions (sizes, quantities, etc.).

It provides a quick overview of the relative size of data without using a scale.
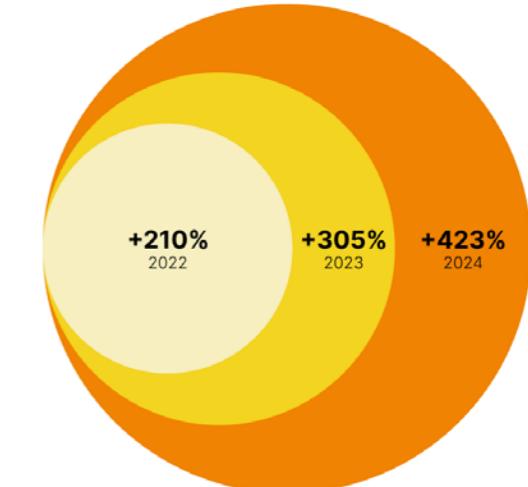


*Sales growth representation*

BENEFIT OF THIS NEW FEATURE IN VERSION 2026
*Make data beautiful in one click*

## 045
New feature WD WB WM
### NESTED PROPORTIONAL AREAS CHART PROGRAMMING

You can manipulate Nest Proportional Areas in the code in the same way you manipulate Pie charts.
Set the different colors via the 7-tab window or programmatically.
Define angle, colors, caption font, etc.
You can manipulate this type of chart using `gr` functions.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*New chart, same programming*

## 046
### NEW CHART CONTROL: USE CASES

Here are some examples:
- Classification of a product in a catalog by family and sub-family: total number of bottles, number of water bottles, number of plastic bottles.
- Payroll breakdown by continent, country, region, state, city.



**Breakdown of payroll**

- Montpellier
- Hérault
- Occitanie
- France
- Europe
- World
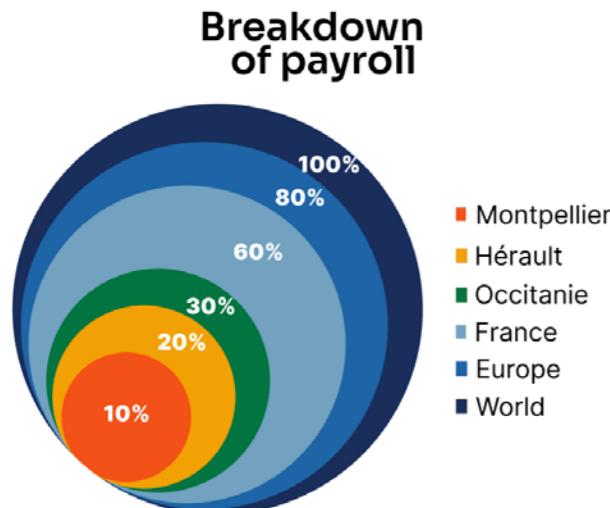
**Benefit of this new feature in version 2026**
*Clear data representation in all fields*

## 047
### LINE CHART: NO LINES BETWEEN POINTS

In WINDEV 2026, you can choose to hide the lines between points in a Line chart.
This allows you to obtain a scatter chart without using a "Scatter chart" control.



**Min and Max sales by Continent (2024)**
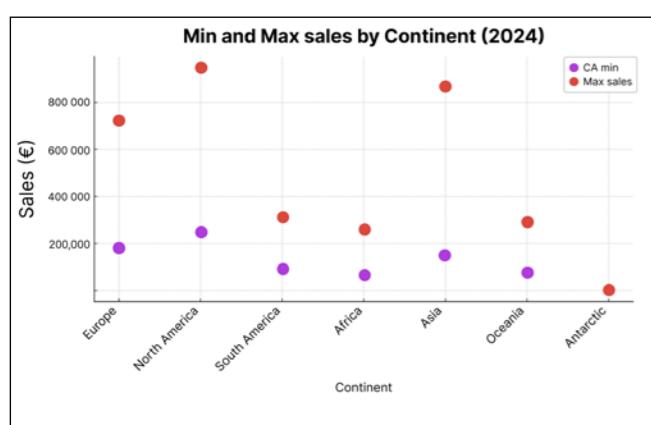
*Cleaner chart, clearer data*

**Benefit of this new feature in version 2026**
*Your chart, your choice*

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# NEW FEATURES FOR IMAGE EDITOR CONTROLS

## 048
### IMAGE EDITOR: MULTIPLE SELECTION WITH FREE-FORM TOOL

In version 2026, the free-form tool in the Image Editor control supports multiple selection. When possible, the desired action will be applied to all selected elements. To select multiple elements using the free-form tool, hold down the Ctrl key.
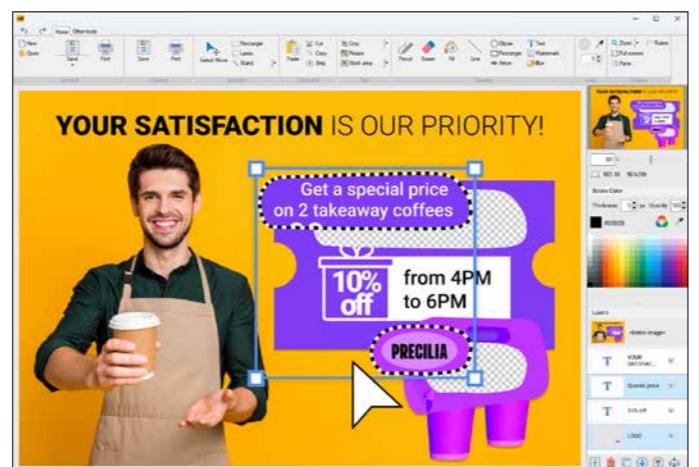


*Two areas selected and moved*

**Benefit of this new feature in version 2026:**
*More options, less actions*

## 049
### SMART IMAGE CROPPING

WINDEV 2026 features smart image cropping. Any space not occupied by the main object is detected and automatically removed to refocus the image on its most relevant content.
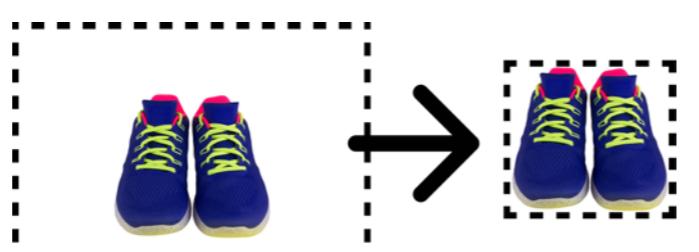


*Unnecessary areas are removed*

**Benefit of this new feature in version 2026:**
*Sometimes, you don't need to see the bigger picture*

---



# NEW FEATURES FOR PDF CONTROLS

## 050
### PDF: FORMS, RADIO BUTTON CONTROLS

A PDF document can contain numerous fields on different pages. In version 2026, it is possible to create Radio Button controls, in addition to the other types already supported (Combo Box, Check Box, Edit control).

**Benefit of this new feature in version 2026:**
*New control available in PDF forms*

## 051
### COLOR THE CURRENT FORM FIELD

A PDF form can have many fields to fill in.
In version 2026, you can set a background color for:
- the input area of Edit controls,
- the input area that has focus.



*Pink background for the input area that has focus*

**Benefit of this new feature in version 2026:**
*User-friendly input*

## 052
### PDF READER: INITIAL AN ENTIRE DOCUMENT

In version 2026, end users can initial a set of pages in a single operation: all pages, range of pages, all pages from the current page onwards, etc.
You can set the same initials area for all pages. This means that if it is moved on one page, it moves on all pages.

**Benefit of this new feature in version 2026:**
*Initialed documents in a single action*

## 053
### PDF READER CONTROL: ADD TEXT

In version 2026, the PDF Reader control lets you add text to an existing PDF document, even if this PDF document is not a form.

---
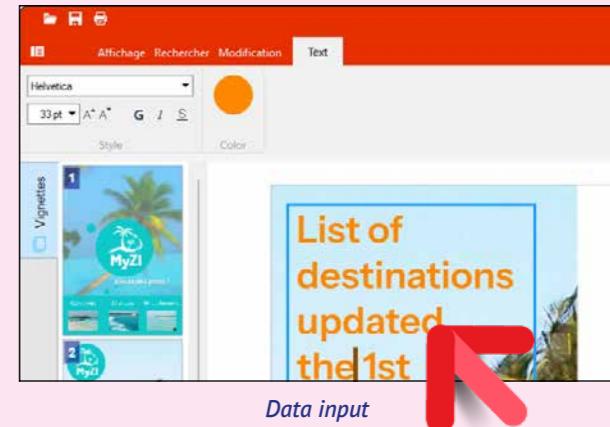


*Data input*

**Benefit of this new feature in version 2026:**
*Write anywhere in the document*

## 054
### PDF: PROTECTION LEVEL OF EXISTING PDFS

There are several ways to protect PDF documents: prevent editing, selecting or printing, etc.
In version 2026, you can identify the protection options of any PDF document programmatically.
The WLanguage `..Protection` property allows you to get these details.

**Benefit of this new feature in version 2026:**
*PDF protection details with a single property*

## 055
### PDF: DEFINE ADDITIONAL PROTECTION OPTIONS

Version 2026 introduces new PDF file protection options.
New constants are available for the `PDFPassword` and `iParameterPDF` functions.

**Benefit of this new feature in version 2026:**
*Protect sensitive documents*

## 056
### PDF: DETERMINE IF THERE IS A CONTROL AT CURSOR POSITION

In version 2026, you can determine whether a control is present at the mouse cursor position, in any PDF document.
All the control details are returned: name, size, position, etc.
This can be used, for example, to display contextual information or pre-fill a form.

**Benefit of this new feature in version 2026:**
*Improve your UX*

# DATA MODEL EDITOR

## 057
New feature WD WB WM
**MODIFIER PANE NOW AVAILABLE**

In version 2026, the Data model editor features a new modifier pane.
This makes it possible to apply changes to multiple elements in a single action, and much more.
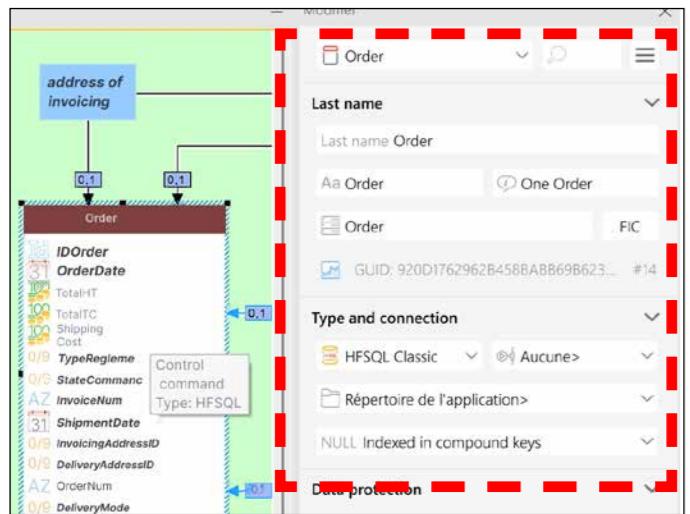


**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*All the advantages of the modifier pane*

## 058
New feature WD WB WM
**AUTOMATIC DATABASE SCHEMA REORGANIZATION**

Database schemas evolve along with projects. New data files (tables) are added over time.
As a result, the layout may become cluttered or disorganized.

In version 2026, the new "Database schema reorganization" feature gives you a clear layout in just 1 click.


*A disorganized database schema...*


*... automatically reorganized with one click*
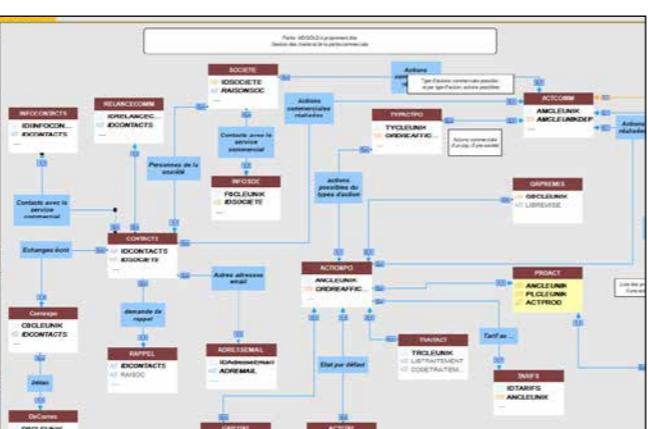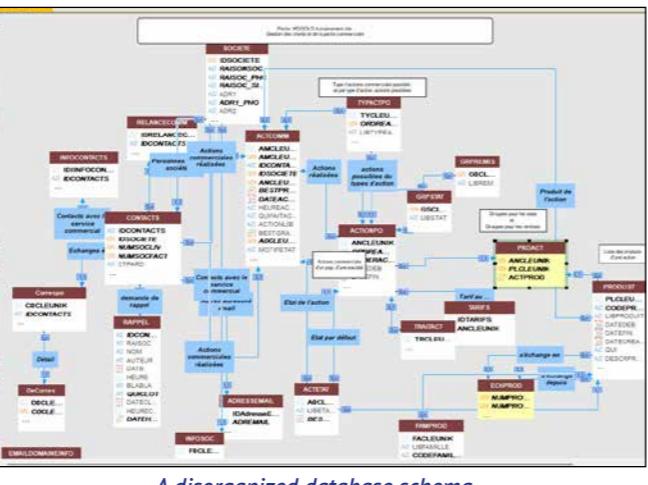
**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Understand your data at a glance*

# ENVIRONMENT

## 059
New feature WD WB WM •
**DIRECT 2D IN THE ENVIRONMENT**

The development environment in version 2026 can use Direct2D to free up CPU resources.
Simply select this mode in the environment options.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Use graphics card hardware acceleration*

## 060
New feature WD WB WM
**MODIFIER: HIGHLY ANTICIPATED IMPROVEMENTS**


*All parameters at your fingertips*
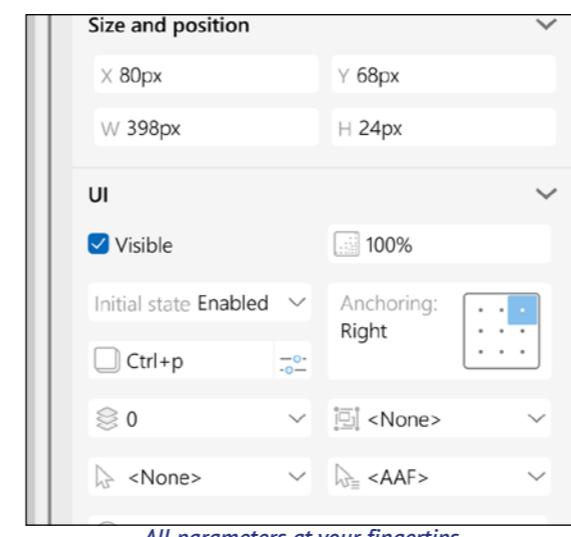
In version 2026, the modifier offers new UI options.
See New feature 081.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Make changes with one click*

## 061
New feature WD WB WM
**SIMPLIFIED ENVIRONMENT CONFIGURATION**

When you open the development environment for the first time, a window lets you configure the most frequently used options:
- "Team Table" vocabulary
- Dark theme
- Modifier pane on the right
- Lower-case keywords
- Text format by default
- Nullable types
- Doxygen documentation
- No code style
- ...


*A complete wizard*

You can open this window at any time via the general options. Please note that the different options are still available separately. The new window simply provides centralized access to these options.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*The main environment options at a glance*

## 062
New feature WD WB WM
**NEW PROJECT CONFIGURATION: DLL**

In version 2026 you can create DLLs.
This facilitates interoperability with other languages, such as Python.
Simply use this new option to select the procedures to be exported with the DLL.
The necessary elements are generated: .h, .lib and the DLL itself.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Interoperability*

## 063
New feature WD WB WM
**PROJECT DASHBOARD, IMPROVED WIDGET COMPONENT**

The "Component" widget on the project dashboard now includes

details on Internal Components.
These details include the number (and list) of Internal Components that have not been synchronized with the SCM.
Simply click this list to update them automatically.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Up to date with one click*

## 064 New feature WD WB WM
### INTERNAL COMPONENT RENAMING

The Internal Component renaming functionality is now available in the development environment.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Fewer actions*

## 065 New feature WD WB WM
### CLEARER PRESENTATION OF SMART CONTROLS

Version 2026 simplifies the presentation and selection of Smart controls.
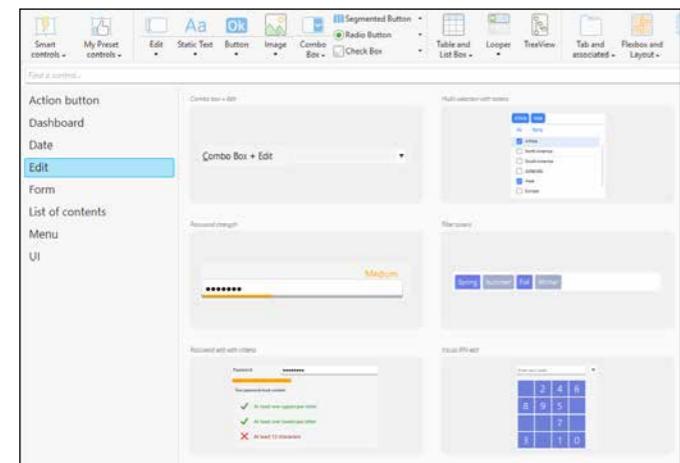

*Control preview in a clear layout*

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Smart layout, Smart controls*

## 066 New feature WD WB WM
### WARNING MESSAGE : EXECUTABLE WITH COMPILATION ERRORS

It may seem surprising, but sometimes applications are released with compilation errors.
This oversight can lead to unexpected runtime errors.
In version 2026, when you launch the creation of an executable file, a message appears if one or more compilation errors have been detected.
You can then decide whether or not to deploy the application.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Fix errors just in time*

## 067 New feature WD WB WM
### MISCELLANEOUS

• All environment tools are now available in 64-bit version.
• The date on which projects were last opened is displayed in the home window.

# PROJECT SECURITY AUDIT

## 068 New feature WD WB WM
### SECURITY AUDIT

Version 2026 introduces a new type of static audit that focuses on the security of your projects.
See all details in New features 120 to 123.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Extra security*

# PROJECT STATIC AUDIT

## 069 New feature WD WB WM
### MULTILINGUAL STRINGS IN THE WRONG FORMAT

Your projects can contain multilingual strings in legacy format (now deprecated) and in the latest format (recommended).
The legacy format is kept for compatibility reasons, but its use is now discouraged.
Multilingual strings in legacy format are now identified and highlighted.
Simply run the wizard to change the format of multilingual strings. No need to make any changes in the code of the application.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Newer and better string format*

# PROJECT DYNAMIC AUDIT

## 070 New feature WD WB WM
### OLD METHOD FOR OPENING WINDOWS WITH PARAMETERS

The method for opening windows with advanced parameters could be difficult to write and maintain.
The dynamic audit reports the use of this old method, to be replaced by the use of the new WLanguage `Window` type.
(See New feature 249)

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*The right suggestions at the right time*

# PROJECT MANAGEMENT HUB

## 071 New feature WD WB WM
### SPRINT BURNDOWN CHART



In version 2026, a new widget has been added to the Sprint dashboard to visually check the progress of the sprint.
Progress is now represented by a Burndown chart.
The chart shows the number of planned days remaining in the sprint.
The chart also allows project managers to assess the efficiency of the development team.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Keep control of your projects*

## 072 New feature WD WB WM
### MISCELLANEOUS

• The Project Management Hub is now available in 64-bit version.
• Multiple selection available in the incident list, e.g. for archiving several elements in a single action.
• Filter by multiple sprints in the task and incident views.

# TECHNICAL AND FUNCTIONAL DOCUMENTATION

## 073 New feature WD WB WM
### GDPR ITEMS IN THE TECHNICAL DOCUMENTATION

GDPR-compliant items are now clearly indicated in the technical documentation, in addition to the GDPR folder.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Effortless GDPR compliance*

**WINDEV 2026 IS COMPATIBLE WITH YOUR EXISTING PROJECTS. COMPILE AND GO.**

You don't need to migrate projects from previous WINDEV versions to version 2026. Simply compile the application and it will run in the new version.
This also applies to WEBDEV and WINDEV Mobile.
You can use components from previous versions with applications in version 2026.
All IDEs in version 2026 directly open projects from previous versions.
You can have different versions of your environments on your PC.

## 074 New feature WD WB WM
**FACTUR-X: ELECTRONIC INVOICING SOLUTION**

Factur-X is a hybrid electronic invoice format combining a human-readable PDF and an integrated structured XML file, compliant with European standard EN 16931.

It is easy for users to read while ensuring automated integration into accounting systems.

Factur-X was developed by the French non-profit association FNFE-MPE, and the German association FeRD.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Everything is integrated*

## 075 New feature WD WB WM
**FACTUR-X: OVERVIEW**

The Factur-X specification uses an XML file that describes an invoice according to extremely precise standards.

This XML file is integrated into the PDF invoice.

The advantage is that the Factur-X PDF file is both human-readable and machine-readable.

A Factur-X invoice therefore involves the following:
- It must be a PDF/A-3 file (archiving standard).
- It must include an EN 16931-compliant XML file as an attachment (in a text/xml attachment with the correct role).
- It must still be human-readable (it can be a standard invoice template, with no special graphic requirements).

Version 2026 supports all these requirements.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Invoicing made easy*
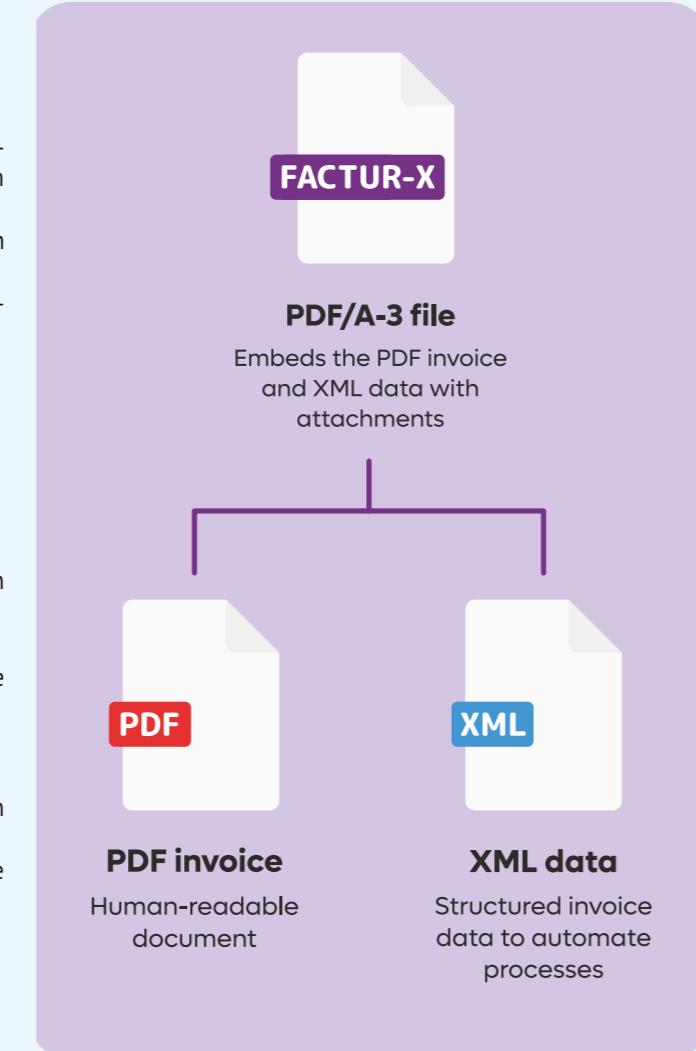
## 076 New feature WD WB WM
**5 PROFILES**

Factur-X defines 5 data profiles (or levels) corresponding to use cases of increasing complexity. These profiles are as follows:
- **Minimum**
Contains only essential data: invoice number, date, total amount, seller and buyer identification.
- **Basic WL (without lines)**
Adds totals before tax, VAT by rate, but without line-by-line detail.
- **Basic**
Add billing lines (description, quantity, unit price before tax).
- **EN 16931 or Comfort**
Compliant with the full European standard EN 16931 with all required information (including order references, payment terms, deliveries, etc.). Mandatory for B2G (Business to Government) exchanges in France and Europe.

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**FACTUR-X**

**PDF/A-3 file**

Embeds the PDF invoice and XML data with attachments

**PDF**

**PDF invoice**

Human-readable document

**XML**

**XML data**

Structured invoice data to automate processes

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- **Extended**
Allows you to add sector-specific information (e.g., healthcare, energy, etc.).
*At the time of printing, this profile has not yet been finalized by the association.*

Version 2026 supports the 4 levels that have already been validated.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*WINDEV makes invoicing easy, no matter the profile*

## 077 New feature WD WB WM
**FACTUR-X: WHAT DOES THE XML FILE LOOK LIKE?**

The complexity of this XML file increases with the profile level.

To be compatible with the European standard, the profile currently expected for electronic invoicing is level 4 - EN 16931.

The corresponding XML file contains several dozen lines.

Here is an extract of code corresponding to one product in an electronic invoice:

```
<ram:SpecifiedTradeProduct>
  <ram:GlobalID schemeID="0160">598785412598745</ram:GlobalID>
  <ram:SellerAssignedID>ART_1254</ram:SellerAssignedID>
  <ram:BuyerAssignedID>REF5487</ram:BuyerAssignedID>
  <ram:Name>SUPPORT SERVICE</ram:Name>
  <ram:Description>Description</ram:Description>
  <ram:ApplicableProductCharacteristic>
    <ram:Description>CATEGORY</ram:Description>
    <ram:Value>DAY 8H-20H</ram:Value>
  </ram:ApplicableProductCharacteristic>
  <ram:DesignatedProductClassification>
  <ram:ClassCode listID="SK">SKU2578</ram:ClassCode>
  </ram:DesignatedProductClassification>
</ram:SpecifiedTradeProduct>
```

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Comply with new standards, no matter how complex*

## 078 New feature WD WB WM
**FACTUR-X: GENERATE THE XML FILE WITH ONE LINE OF CODE**

A ready-to-use internal component is provided with your IDE. Simply integrate it into your project.

For each item on the invoice, call the internal component to generate the corresponding XML lines (with tags, etc.).

There is a property for each detail: billing address, invoice line for an item invoiced by weight, invoice line for an item sold by unit, etc.

Each property expects parameters specific to the type of information it handles.

When the invoice is complete, simply call the `GenerateXML` method of the class provided in the internal component to create the XML file with the path to the PDF file.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Complete invoice with one line of code*

## 079 New feature WD WB WM
**FACTUR-X: UNIT SELECTION WIZARD**

Choosing a standardized unit to use in Factur-X can quickly become complex.

In version 2026, an intuitive wizard guides you through the selection of the standard-compliant unit, depending on the type of data to be sent.

| Kilo | |
|---|---|
| | Results: 177 |

| Unit ▼ | Code ▼ |
|---|---|
| Kilogram | KGM |
| Kilometer | KMT |

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*The right type of data at the right time*

## 080 New feature WD WB WM
**FACTUR-X LOGO**

**Factur-X**
**Hybrid Invoice**

Some companies add a Factur-X logo to indicate that the invoice uses a hybrid format (PDF + XML).

This logo can be inserted automatically in the report editor.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Make a good impression*

# ENVIRONMENT
# IMPROVED MODIFIER PANE

## 081
New feature WD WB WM

### MORE OPTIONS IN THE MODIFIER

The modifier pane now enables you to view and adjust more settings.

**For all controls**
- Style selection and style overrides.
- Multilingual strings for tooltips, hint texts, labels
- Path to the image associated with the control, including:
  - button icons
  - Edit control button icons
  - window icons
  - ActionBar icons
- Keyboard shortcuts
- Context menu
- Groups of controls
- Remember columns/tabs/values

**Image control and Window**
A specific section allows you to select and view the image path and display mode settings.

**Combo Box/List Box control**
- Stored values
- Sort

**Check Box control/Picker control**
- Number of columns
- Proportional columns
- Multiline text for options
- RTF support for options

**Table control**
- Selection mode
- Column anchors

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*More options, more possibilities*
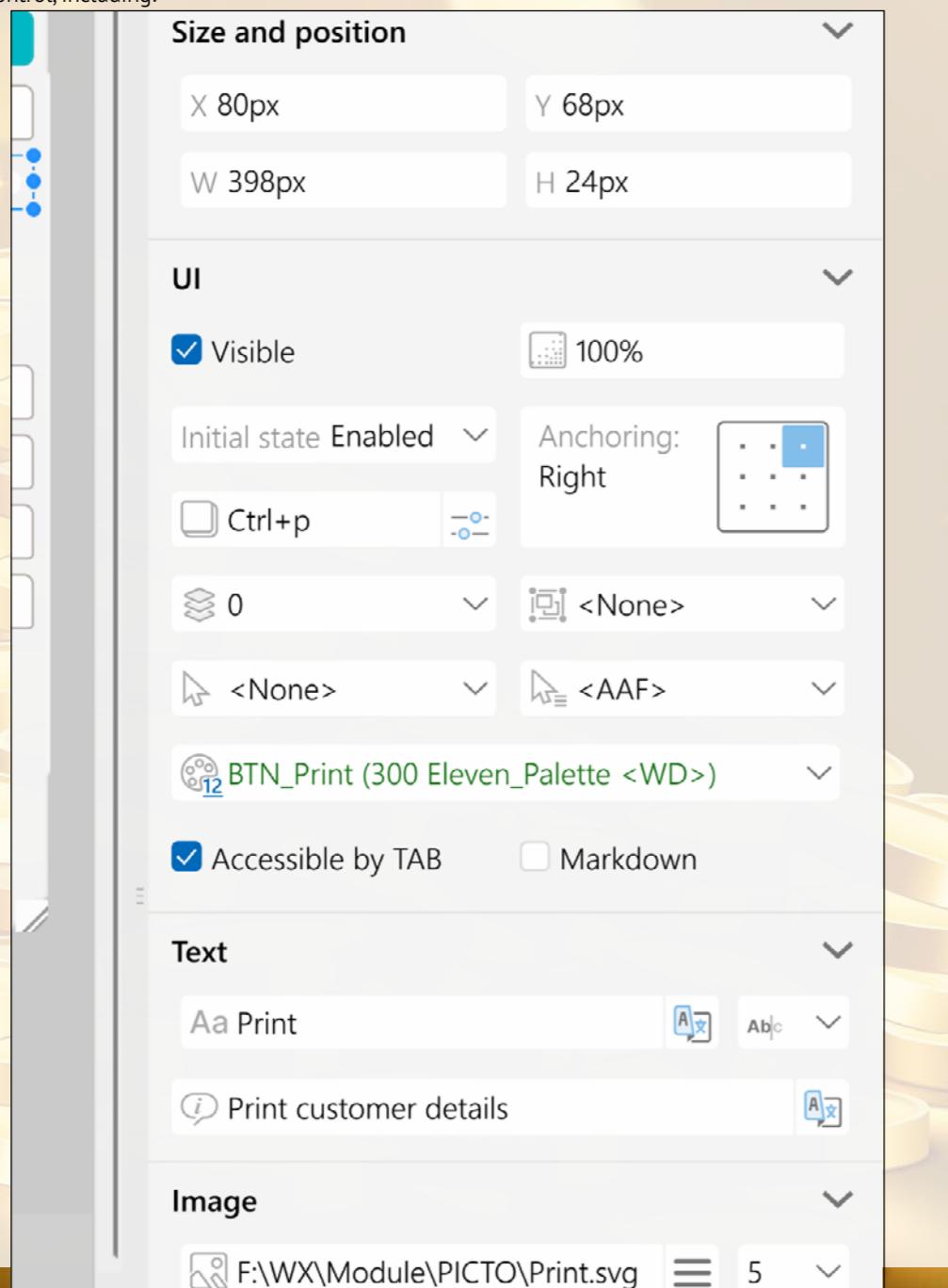
## 082
New feature WD WB WM

### INVISIBLE OPTIONS

Every developer wants to keep only the options they need. The new Modifier pane allows them to do just that by simply hiding the desired options.
Thus, only the most frequently used options remain visible.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Your modifier, your choice*



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# CONTINUOUS INTEGRATION - SOFTWARE FACTORY



## 083
New feature WD WB WM

### RIGHTS MANAGEMENT IN THE SOFTWARE FACTORY

For security reasons, a rights management system has been implemented in the Software Factory.
This system is optional.
The following rights can now be defined:
- Add/Modify/Delete an action plan library.
- Add/delete an instance
- Modify the parameters of an instance
- Run and schedule an instance.
- Configure the Software Factory

Reminder: An "instance" is an action plan with a set of parameters. The same action plan can be used in multiple instances.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Better control over key actions*

## 084
New feature WD WB WM

### 3 NEW ACTIONS

In version 2026, the Software Factory offers three new actions:
- Delete an SCM branch
- Convert a project to text or binary format
- Generate a project statistics file: number of elements in the project, number of lines of code, number of lines of code modified between 2 dates, etc.

These actions complement the 118 actions already available.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*You will always find a solution*

## 085
New feature WD WB WM

### AVAILABLE IN SPANISH

The Software Factory administrator is now available in Spanish.


The WINDEV, WEBDEV, WINDEV Mobile suite is distributed in 145 countries

# OAUTH SECURITY - USER GROUPWARE

## 086
New feature WD WB WM

### OAUTH TOKEN FOR AUTHENTICATION

The User Groupware can use OAuth tokens for authentication.
The WLanguage `gpwLogin` function now accepts an OAuth token as a parameter.
End users who are already authenticated don't have to enter their password again.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Automatic authentication*

# OAUTH SERVER

## 087
New feature WD WB WM •

### OAUTH SERVER ADMINISTRATION IN WLANGUAGE



An OAuth server comes as standard with WEBDEV Application Server.
Now, you have access to administration options for this OAuth server in WLanguage, in addition to the existing options from the administration site.
A new series of WLanguage `wdbaas` functions allows you to create, modify and delete users.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Ability to automate administration tasks*

## 088
New feature WD WB WM

### OAUTH SERVER ADMINISTRATION FROM A THIRD-PARTY LANGUAGE

You can also manage an OAuth server using a third-party language: A web service is provided for this purpose.
(Please refer to WEBDEV Application Server license).

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Interoperability*

## GIT / GITHUB / GITLAB

### 089 New feature WD WB WM
**GIT: MULTILINGUAL STRINGS IN TEXT FORMAT**

Multilingual strings are now saved in text format, making them directly usable in Git and GitHub.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Simplicity*

## IMAGE EDITOR

### 090 New feature WD WB WM
**BUILT-IN IMAGE EDITOR: NEW FEATURES**

The image editor included in the development environment also supports free-form selection as presented in new feature 048. Smart crop is also available (See New feature 049).

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*A more powerful image editor for developers*

## WDMSG AUTOMATIC TRANSLATION

### 091 New feature WD WB WM
**FASTER EXTRACTION OF TRANSLATION TEXT**

Extraction of text (windows, pages, code, etc.) from projects located in an SCM repository is even faster in version 2026.

For comparison, the extraction process is twice as fast as in version 2025, and 4 to 10 times faster than older versions.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*The faster, the better*

### 092 New feature WD WB WM •
**STRINGS WITH SCREENSHOTS**

Now, when strings are extracted from a window or control, an image of that window or control is generated and attached to the text resource.
This image can then be viewed in WDTrad.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Much appreciated by translators*

## SCM - COLLABORATIVE SOURCE CODE MANAGER

### 093 New feature WD WB WM •
**ERROR LOG**

The SCM administrator can now log any errors encountered during a given session.
An error may occur, for example, as a result of a hardware failure.
In the event of an error, Free Technical Support may ask you to forward this log for analysis.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Essential information when you need it*

### 094 New feature WD WB WM •
**SINGLE REPOSITORY BACKUP FILE**

Now, every full backup of the repository created via the SCM administrator generates a single archive file.
This simplifies and secures backup management.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Simplicity*

### 095 New feature WD WB WM •
**OBSOLETE SCM REPOSITORIES**
The elements contained in the SCM are stored in a database.
As new versions are released, the database is optimized for speed, security, remote access and functional upgrades.
The structure of this database has to be updated manually.
In version 2026, if the database needs updating, a notification is displayed in the environment.
Simply click on the notification to update.

# SCM LOCAL HISTORY



1- Local check-in
2- Check into SCM repository
3- Get latest version
SCM

### 096 New feature WD WB WM •
**LOCAL HISTORY**

In a development team, elements are not checked into the SCM until the development of a functionality has been completed. This means that the elements under development are not available to other developers.
Until these elements are checked in, the developer has no access to history, and has no possibility of rolling any changes back.
Now, the SCM enables developers to create a local history.
This means that the history of changes made to an element can be saved locally, without being immediately synchronized with the central repository.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Your projects, your history*

### 097 New feature WD WB WM •
**MAIN ADVANTAGES OF LOCAL HISTORY**

This feature has many advantages:
- Intermediate save points: Developers can save local versions of their work, at different stages of progress, without affecting the shared repository.
- Independent development: This feature is particularly useful for complex or experimental developments projects that require multiple trials before validating a release version.
- Check-in flexibility: When checking elements into the repository, two options are available: When reintegrating into the shared database, two options are available:
  - Keep local versions in the global history.
  - Squash local versions to send only a "clean" version to the team.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Commit only desired changes*

Note: Depending on the size of your SCM database, this operation may take a long time. You will not be able to use the SCM during this process.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Always up to date*

## 098 New feature WD WB WM
### BRANCH SUPPORT IN EXECUTABLE PATCHES

You can create executable patches in the development environment. These patches now take into account the branches defined in your SCM.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*More possibilities*

## 099 New feature WD WB WM
### CONNECT TO MULTIPLE SCM REPOSITORIES

To use several SCM repositories from the same environment, it is now possible to specify an account (username and password) to connect to each one of these repositories.
This allows for a login process with less actions.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Connect to different repositories in a single action*

## 101 New feature WD WB WM •
### EDIT CODE IN TEXT FORMAT: CSS, HTML, JSON, PYTHON, C#, WL, AND MORE

The code editor enables you to write WLanguage, JAVA, PHP, and many other languages
In version 2026, you can also open and edit code files in text format.
One of the main advantages is the ability to edit **.wl** or **.wx** files

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## SCMDRIVE: YOUR PROJECTS IN THE CLOUD IN 3 CLICKS

SCMDrive is the go-to, cloud-based source code management solution.
Subscribe now to benefit from a competitive price and start using your SCM within minutes.
This SCM is accessible from anywhere in the world.
In version 2026, all the new features of the SCM are also available in SCMDrive.
Visit **www.scmdrive.com**

## CODE EDITOR

## 100 New feature WD WB WM
### SEMANTIC SEARCH

In version 2026, the search pane boasts a new semantic search functionality in the code.
This search method is more flexible than a standard word search.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*New, powerful search mode*

used by your application.
It is also possible to edit text files containing code in **Python**, **C++**, **C**, **YAML**, etc.
The code editor applies the syntax highlighting of the associated language and supports over 30 languages, including HTML, CSS, XML, JAVA, C#, and many more.
You can also create your own syntax highlighting standard for a given extension type.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Code interoperability*



*Edit any text file*

---

## 102 New feature WD WB WM •
### WEB SERVICE TOOLTIPS
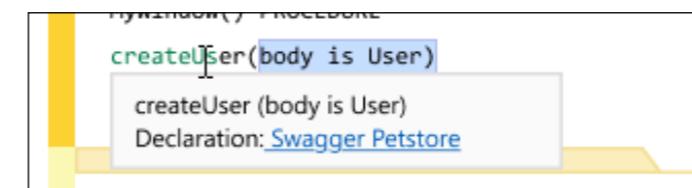


*All the essential information is displayed*

The tooltip displayed on procedures and variables in your code now shows information on the types and procedures imported from web services.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Information at a glance*

## 103 New feature WD WB WM •
### NO MORE EMPTY LINES IN THE CODE

A simple refactoring action now removes empty lines of code from a WLanguage process or event, or from the code of the active window.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*No wasted space*

---

## 104 New feature WD WB WM
### CODE LINE NUMBERING: CURRENT LINE
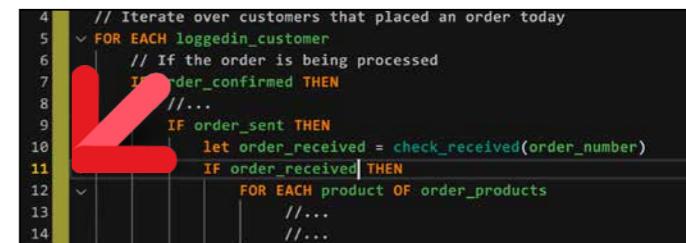


*Easily identify lines of code*

You can show code line lumbers in the code editor.
In version 2026, the number of the current line is highlighted.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Small improvement, big difference*

## 105 New feature WD WB WM •
### SORT METHODS AND PROCEDURES

By default, procedures and methods are sorted according to the order in which they were created.
Now, you can sort them alphabetically.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*More sorting options*

## 106 New feature WD WB WM •
### REGULAR EXPRESSION GENERATION WIZARD

The `RegexMatch` function allows you to check whether a string matches a regular expression.

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## DEVELOPMENT ENVIRONMENTS IN A SECURE INFRASTRUCTURE (WITHOUT INTERNET)

## 107 New feature WD WB WM
### ISOLATED INFRASTRUCTURES

WINDEV Suite regularly connects to the Internet.
In the case of isolated (secure) infrastructures that are not connected to the Internet for extended periods of time, a special "offline" subscription is required.
The license is then allocated to a specific machine for a specific period of time.
Contact our sales department for further information.
Please note that the price of this version may differ from the basic subscription price.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*WINDEV Suite for all use cases*

A new wizard for the `RegexMatch` function now helps you generate the desired code by simply answering a few questions.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Regular expressions made easy*

## 108 New feature WD WB WM •
### NEW MOUSE SHORTCUT

Use **Alt + Mouse wheel** and **Alt + Shift + Mouse wheel** for faster scrolling.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Go anywhere in your code, faster*

## 109 New feature WD WB WM •
### PROGRAMMING STANDARD

In version 2026, a new programming standard signals the simultaneous use of the 2 types of vocabulary available in the environment ("data file" and "table").
Errors related to this programming standard are displayed in the error pane.
It is possible to disable one of these errors if necessary.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Consistent vocabulary throughout the project*

## 110 New feature WD WB WM •
### COPY WLANGUAGE CODE TO THIRD-PARTY SOFTWARE

Code is now copied to the clipboard in both plain text and HTML.
This can be useful for copying code into an e-mail or a PowerPoint presentation.
For better legibility, the code copy/paste functionality now uses the colors of the light theme by default.
This means you won't get lines of code with a black background.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Best colors by default*
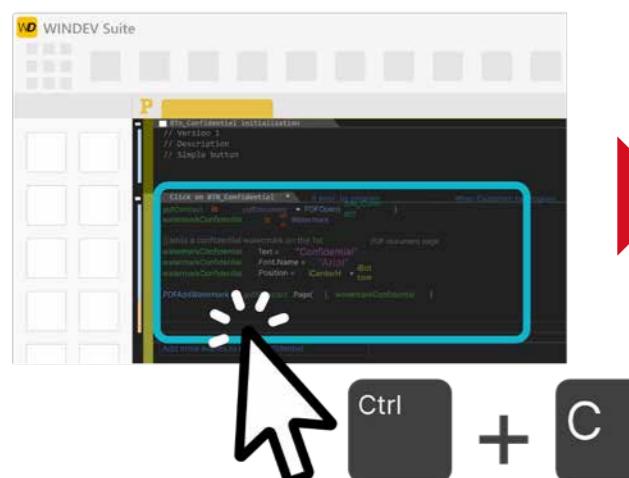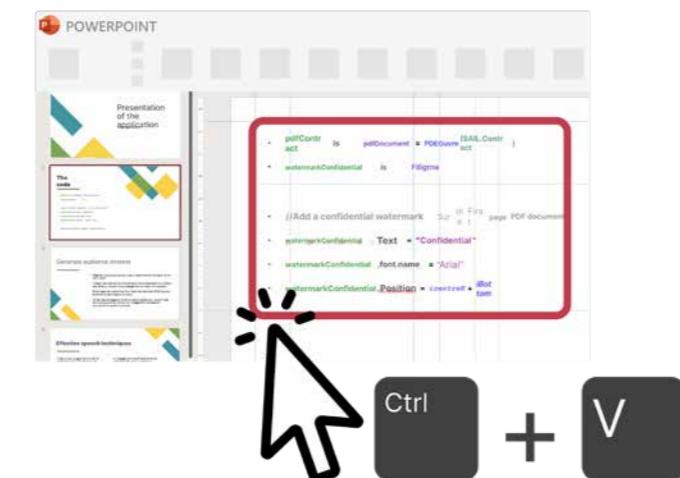
## DEBUGGER

## 111 New feature WD WB WM •
### BREAKPOINTS: MEMORY LEAK DETECTION

Breakpoint functionalities have been enhanced in version 2026.
It is now possible to set breakpoints and run a memory usage comparison or "memory usage diff".
This technique helps you detect memory leaks.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Valuable debugging help*

## 112 New feature WD WB WM
### EDIT & CONTINUE: NEW, MORE COMPLETE VERSION

The debugger features an Edit & Continue functionality. It is now possible to edit code during debugging in "step-by-step" mode.
See New feature 263.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Step by step*

## 113 New feature WD WB WM •
### VIEW LONG STRINGS

The debugger truncates strings in text variables at 25,000 characters.
In version 2026, you can easily view the entire content of the variable, and save it to disk with just 1 click.
This is particularly useful when manipulating JSON content.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*More options in the debugger*

## DEVSECOPS

## 114 New feature WD WB WM
### A BUILT-IN DEVSECOPS ENVIRONMENT

WINDEV, WEBDEV and WINDEV Mobile, along with WINDEV Suite 2026, form an increasingly integrated DevSecOps environment.
The term "Sec" refers to the security of the developed application, which is taken into account in the design phase.
Thanks to the new Security Audit in version 2026, it's now easy to manage and check the security of your applications.
You have access to all the functionalities needed to implement a DevSecOps approach. This means you no longer have to rely on scattered tools with low interoperability.
You have all the integrated tools you need to implement the DevSecOps methodology: lifecycle management, security, coding, AI, sprints, testing, continuous integration, deployment, continuous delivery, operations, bug fixing, customer feedback, etc.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Integrated and open to all methodologies*

## REPORT EDITOR

## 115 New feature WD WB WM •
### CONTROL TEMPLATES

In version 2026, the Report Editor supports control templates.
This makes it easier to reuse and share one or more controls from your reports.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*More possibilities*

## 116 New feature WD WB WM •
### MVP: REPORT BASED ON CLASS

In version 2026, the report creation wizard allows you to create a report based on a class.
Using MVP architecture makes life much easier.
See New feature 267.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Time saved*

## 117 New feature WD WB WM •
### REPORT BASED ON AN ARRAY OF CLASSES

The `MyStoredValue` keyword is used to identify the current object in the filter code of data-bound reports.
This is useful for reports based on arrays of classes.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Easily identify the current object*

## 118 New feature WD WB WM
### FLEXBOX POSITIONING IN REPORTS

In version 2026, the Flexbox control is available in reports
This control allows you to define layout rules that position controls according to the size of their content.
**Example**:
Three controls placed side by side in a Flexbox control in the report editor.
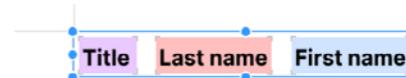
• At runtime, the size of controls automatically adapts to the content. Spacing between controls is preserved.

Relative positioning also applies when data is missing. Information is reorganized to avoid empty lines.
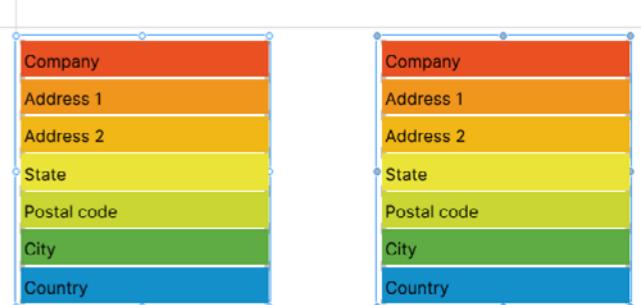
*In the editor, positions are defined.*

*At runtime, data is repositioned*

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*More positioning options in reports*

## 119 New feature WD WB WM •
### SCHEDULER REPORTS: WEEKS DISPLAYED IN ISO 8601 FORMAT

In version 2026, Scheduler reports can display weeks in ISO 8601 format.

# PROJECT SECURITY AUDIT

## DETECT ISSUES BEFORE DEPLOYING YOUR APPS

## 120 — New feature WD WB WM
### DEFENSE AGAINST PIRATES

Data theft is quite common. Large volumes of data are stolen every day around the world, then distributed or resold.
WINDEV provides you with all the tools you need to protect the data in your applications.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Security*

## 121 — New feature WD WB WM
### NEW SECURITY AUDIT

Version 2026 introduces the new security audit..
This security audit detects flaws, unencrypted data, code risks and non-compliance with security standards.
In order to cover all aspects of security, the audit examines the project both statically and dynamically.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*More secure applications*

## 122 — New feature WD WB WM
### STATIC SECURITY AUDIT

Issues detected by the security audit appear in the Compilation errors pane.
Detected issues are sorted by element (window, class, etc.).
The main verifications include:
- plain-text passwords in the code
- unsigned executable
- presence of the Code Editor control
- executable without manifest
- use of unsafe threads
- unencrypted data file
- use of IE ActiveX
- use of deprecated encryption functions
- .etc.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Security in the development phase*

## 123 — New feature WD WB WM
### DYNAMIC SECURITY AUDIT

The dynamic security audit detects issues both in test mode and on demand, when the application runs directly on the end-user device.

Detected issues appear both in the source code and in an aggregate list:
- number of issues detected
- test date/time
- list of issues detected in test mode

**Main verifications:**
- dynamic compilation
- unsafe Socket/SOAP/REST data exchange.
The following aspects are checked:
  ◊ HTTP instead of HTTPS,
  ◊ HTTP ignoring errors,
  ◊ FTP ignoring errors,
  ◊ Use of the `SocketConnect` function instead of `SocketConnectSSL`
  ◊ Use of the `WebSocketClientConnect` function instead of `WebSocketClientConnectSSL`
  ◊ Negotiation with TLS below a minimum version specified in the project description or with the `HTTPConfigure` function
- HFSQL:
  ◊ Unsecured HFSQL data file
  ◊ Unencrypted connection,
  ◊ Opening a data file without a password,
  ◊ Successive calls to `HOpenConnection` that return False
  ◊ Storing a password from a "password" control in a item of a type other than Password,
  ◊ Old Client/Server engine version

```
MyConnection is Connection

// Describes the connection
MyConnection.Server    = "MYSERVER"
MyConnection.Database  = "MYDATABASE"
MyConnection.User      = "USER"
MyConnection.Password  = PWD_BDD
MyConnection.Provider  = hAccesssHFClientServer

HOpenConnection(MyConnection) ⚠ Unencrypted connection.
```

## TOTAL SECURITY

- Old application framework version
- ...

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Security in the production phase*

## 124 — New feature WD WB WM
### USE HFSQL FOR ADDED SECURITY

By simply using HFSQL and encrypting data using the automated features, you ensure a high level of security.
Other database systems don't offer these simple and flexible data encryption options.
With HFSQL, even illegal access to the server does not result in access to encrypted data.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Automatic security*

## 125 — New feature WD WB WM
### STATIC AND DYNAMIC QUALITY AND PERFORMANCE AUDITS

As you know, the development environment has always offered two types of audit: static quality audit and dynamic performance audit.
These two types of audits are still available.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Deploy your apps with peace of mind*

# GO FORWARD IN 2026

When this format is used:
- Each week begins on a Monday.
- Week 1 contains the first Thursday of the year (or, equivalently, January 4)

Example:
If January 1 falls on a Friday, Saturday or Sunday, these days are included in the last week of the previous year.

Note: This ISO 8601 format is also available for Organizer and Gantt reports.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*New standard supported*

## 126  New feature WD WB WM •
### EXIF DATA FOR IMAGES IN REPORTS

Exif data is embedded within images. It includes details such as image orientation.

In version 2026, it is possible to specify this information when creating reports to make sure images are displayed correctly.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Better image management*

## 127  New feature WD WB WM •
### TOOLTIPS IN PREVIEW WINDOW

The `Tooltip` property (also available as an option in the 7-tab window) allows you to define a different tooltip for each control in a report.

This tooltip is now displayed in the report viewer when hovering over the different controls.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Understand all the controls in your reports*

## 128  New feature WD WB WM
### REPORT EDITOR: MISCELLANEOUS

- The Radio Button control is now available in reports.
- Reports & Queries is now available in 64-bit version.

---

# ARTIFICIAL INTELLIGENCE

## 129  New feature WD WB WM
### CONVERSATIONAL AI

In version 2026, conversational AI is available both in the environment (See New feature 001) and in your applications (See New feature 229). Android applications can also interact easily with Gemini (Android's built-in AI).
See New feature 790.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Ready for an AI-powered future*

---

# WLANGUAGE

**WL**

## 130  New feature WD WB WM •
### EMAIL FUNCTIONS

New WLanguage functions for managing emails have been added, to take account of special cases.

The new WLanguage `EmailExecuteCommand` function lets you send any command to a mail server.

The new WLanguage `EmailSubscribeToFolder` / `EmailUnsubscribeFromFolder` functions allow you to subscribe to or unsubscribe from a folder in order to access its contents via IMAP.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Always more*

---

# SHAMIR'S SECRET SHARING: DIVIDE A SECRET INTO SHARES & SET A MINIMUM NUMBER OF SHARES TO RECONSTRUCT THE SECRET

## 131  New feature WD WB WM •
### SHAMIR'S SECRET SHARING: CONFIDENTIALITY AND RESILIENCE

This process consists of dividing a secret into m shares and setting a minimum number of shares (n <= m) to reconstruct the original secret.

Shares can take many forms: password, email address, bitcoin private key, document, or basically any type of string.

This process guarantees both confidentiality (the secret cannot be guessed with fewer than n shares) and resilience (it can be reconstructed even if some shares are lost).

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Perfect secrecy*

## 132  New feature WD WB WM •
### SHAMIR'S SECRET SECRET: WLANGUAGE PROGRAMMING

WLanguage includes three new functions for creating shares and reconstructing secrets: `ShamirCreateShares`, `ShamirGeneratePrimeNumber`, `ShamirReconstructSecret`.

The creation of shares is based on a prime number. The `ShamirGeneratePrimeNumber` function generates this prime number, taking into account the secret value, the number of shares to be generated (m) and the number of shares required for reconstruction (n).

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Proven secret sharing method*

---

# PASSING PARAMETERS BY VALUE

## 133  New feature WD WB WM
### LEGACY MODE: PASS-BY-REFERENCE

WLanguage has always supported a parameter-passing method by reference.

The parameter is a reference to the caller's variable. When the parameter value is modified, the parameter is also modified for the caller: variable, control, item, etc.

Although widely used, this method can lead to unwanted effects.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Compatibility*

## 134  New feature WD WB WM
### NOW AVAILABLE: PASS-BY-VALUE

Legacy mode (by reference) is kept for compatibility purposes, and remains the default mode for new projects.

However, passing parameters by value is recommended, as this method is more secure and prevents modifying elements of the caller by mistake.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Added security*

## 135  New feature WD WB WM
### USE BOTH MODES

Regardless of the parameter-passing mode defined in the project, you can use the other mode at any time, using the WLanguage `by value` and `by reference` keywords.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Compatibility and security*

## 136 — WINDOWS NOTIFICATIONS

In version 2026, you can programmatically include progress bars in Windows notifications.
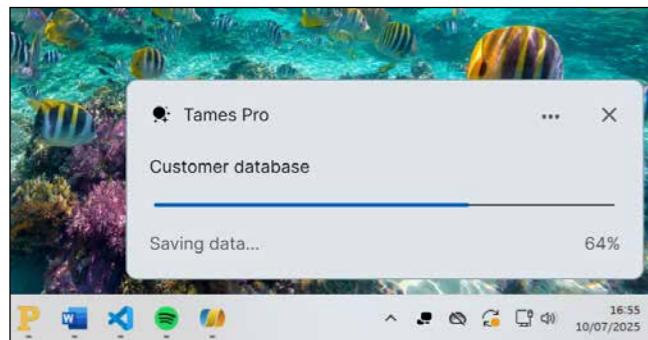


*Notification with progress bar*

- A new function and a series of new properties associated with `sysNotification` variables allow you to manage notification expiration, as well as the use of progress bars in the notification.
- The new `ExpireOnReboot` property allows you to specify whether or not the notification should appear again after a computer is restarted.
- The new `ProgressBar` property and the `sysNotificationProgressBar` variable type allow you to configure progress bars in notifications.
- The new `SysNotificationProgressBarUpdate` function updates the characteristics of a progress bar present in a system notification.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Making progress*

## 137 — ISOLATED POINTS IN LINE CHARTS
New feature WD WB WM •

To draw Line charts without the segments (leaving only the points), simply pass the `LineNone` constant to the `grSeriesLineType` function.
See New feature 047.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Your chart, your choice*

## 138 — OAUTH 2.0: CERTIFICATE-BASED AUTHENTICATION TO OAUTH SERVER
New feature WD WB WM

To pass a certificate to an OAuth server during the authentication process, use the new `Certificate` property of the `OAuth2Parameters` type.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Improved security*

## 139 — JWT ASSERTION SUPPORT
New feature WD WB WM •

OAuth supports JSON Web Token (JWT) assertions as an authentication mechanism.
JSON Web Tokens are self-contained. They have all the information necessary for their validation, encapsulated in a standardized structure that includes:
- a header describing the token type and signature algorithm,
- a payload with authentication information (or "claims"),
- a signature guaranteeing content integrity

The new WLanguage `JWTCreateAssertion` function is used to create the assertion.
The new `gtCustomGrantType` constant is used to pass the JWT assertion to the OAuth server.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*One more standard*

## 140 — OAUTH: CLIENT SECRET BASIC
New feature WD WB WM

Client Secret Basic authentication requires that parameters be passed in the request header.
The new `authClientSecretBasic` constant allows you to use this protocol.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Additional authentication standard*

## 141 — AUTHENTICATION VIA OPENID
New feature WD WB WM

Version 2026 also allows you to use OpenID with certificates, Client Secret Basic authentication, or any other additional option.
See New features 138 and 139.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*OpenID too*

## 142 — MSGRAPH: RETRIEVE AN OAUTH TOKEN FROM A WINDOWS ID
New feature WD WB WM

In Windows Entra ID (ex-Azure directory), it is possible to retrieve the OAuth token of users that have authenticated to a Windows session.
This can be useful to call MSGraph APIs.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*SSO*

## 143 — = OPERATOR FOR ARRAYS
New feature WD WB WM

In version 2026, you can use the "=" operator between two arrays to compare their elements.
The "=" operator is applied recursively to all the elements in both arrays.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*No need to write iterative comparisons*

---

## EASILY CONSUME

### GraphQL

### WEB SERVICES IN VERSION 2026



## GRAPHQL

## 144 — WHY GRAPHQL?
New feature WD WB WM

A good starting point is: what does the term "GRAPH" have to do with web service technology?
It's simple; the information returned by the web service is linked together by a graph, not just a tree structure.
What's the difference? A graph can cycle and return to its "parent".
QL stands for Query Language.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*A popular type of web service for data access*

## 145 — HOW DOES GRAPHQL WORK?
New feature WD WB WM

In GraphQL, you make a single request to the web service, specifying all the data you wish to retrieve.
The server returns all the data requested, in a structured form (as a graph) in JSON format.
This offers a clear advantage, as you make one call instead of many.
Performance is unmatched by any other type of web service

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Less web server calls*

## 146 — REQUEST EXAMPLE
New feature WD WB WM

A web service request could ask for:
- A customer's name
- Email address
- Last 10 orders, with details of products ordered

With GraphQL, all these operations can be completed in a single call.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*One query, all kinds of data*

## 147 — NEW WLANGUAGE TYPE: GRAPHQLQUERY
New feature WD WB WM

To easily use the returned values, the new WLanguage `graphQLQuery` type is introduced in version 2026.
This means that code completion is available when accessing the query result.
For example:

```
// Query declaration
customers_year_query is query = `
query CustomersByYear($year: Int!)
{
    ListCustomersWithRental(year: $year)
    {
        Last name
        First name
        Rentals
        {
            Yacht
            {
                Name
                Length
            }
            StartDate
            EndDate
        }
    }
}
`
```

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Native manipulation of GraphQL queries*

## 148

New feature WD WB WM

### A MAJOR NEW FEATURE FOR HFSQL

HFSQL 2026 introduces an incredible new feature: The ability to perform "semantic" searches, i.e. searches based on the meaning of text, rather than on the exact string.
Semantic search consists in finding records not on the basis of exact keywords, but on the basis of the meaning or overall sense of the phrase being searched.
This search examines text items or memos.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*New, powerful search mode*

## 149

New feature WD WB WM

### SEARCH BASED ON THE MEANING OF WORDS AND PHRASES

HFSQL 2026 makes it possible to search for generic terms in a database.
For example, you can search for "men's shoes" in a product database instead of trying exact-match searches with "shoe", "shoes", "boots", "sneakers", "sandals", etc.
A new syntax is available for the FOR EACH statement:

```
MAX_RESULT is int = 10

FOR EACH Product WITH SemanticSearch(
Description, "men's shoes", MAX_RESULT)
DisplayProduct(Product.ProductID)
END
```

No need for third-party modules. Everything is integrated into the HFSQL engine.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*A search mode that puts itself in your shoes*

## 150

New feature WD WB WM

### HFSQL WINDOWS AND LINUX

The "semantic search" feature is only available in Client/Server mode.
Users can launch a semantic search even from a mobile device, if the database used is in Client/Server mode.

Note: The server hosting the database must be equipped with a modern graphics processing unit (GPU). For example, a 10-year-old server cannot host an HFSQL server for intended for semantic searches.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Semantic search available on all the platforms*

## 151

New feature WD WB WM

### TECHNOLOGY

Semantic search is based on vector representations (embeddings) of texts mapped in a multidimensional space.
Each document or text is encoded as a vector in this space.
Search text is encoded in the same way.
The engine measures the distance (or similarity) between the query vector and the indexed vectors.
To this end, a new index format (.vex) has been added to HFSQL.
The HFSQL engine handles this new type of index just like any other standard index.
The closest texts or documents in this space are returned as relevant results.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Power at your fingertips*

## 152

New feature WD WB WM

### AN EMBEDDING MODEL IN HFSQL

HFSQL integrates an embedding model and a specific index adapted to semantic search.
No additional installations, no connection to external modules, no additional management. HFSQL does it all for you.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*AI-powered search*

## 153

New feature WD WB WM

### RELEVANCE: NUMBER OF RESULTS (TOP K) AND SIMILARITY THRESHOLD

Semantic queries must include 2 parameters:
• maximum number of results,
• minimum similarity threshold.
The number of results is the number of records that match the search.
The similarity threshold indicates whether the elements found should be more or less similar. The higher the threshold, the closer the meaning.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Two parameters, advanced search*

## 154

New feature WD WB WM

### CREATE A SEMANTIC INDEX

Creating a semantic index is easy. Simply declare a semantic index in the analysis, and indicate the text items to be indexed.
On existing databases, an "automatic modification" is run.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Total automation*

## 155

New feature WD WB WM

### CUSTOMIZABLE MODEL

By default, vectors are calculated by the model included with HFSQL.
This model can be customized.
Alternatively, you can use a "Semantic vector" item to directly indicate the value of a semantic vector.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Quick and easy*

## 156

New feature WD WB WM

### 384-DIMENSIONAL EMBEDDINGS

Text embeddings are obtained by cutting text into chunks.
An embedding is calculated for each of the chunks. In the provided model, each embedding has 384 dimensions.
These embeddings are grouped together in a set attached to the text. It is this set that's in the index.
All embeddings are organized in a vector space.
The core of the index is a hierarchical graph.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*HFSQL turns complexity into simplicity*

## 157

New feature WD WB WM

### SPELLING MISTAKES

One of the benefits of this type of index is its high tolerance to searches including spelling mistakes, grammatical errors and dyslexia.
You will still find "Tennis shoes" if you search for "Tenis shoes" or "Tennis sheos".

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Reely powerfull*

## 158

New feature WD WB WM

### LANGUAGE-INSENSITIVE SEARCH

Indexing and searching are language-independent.
You can search for "zapatos" and still find shoes.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*I like your zapatos amigo*

## PRACTICAL EXAMPLE

Thanks to semantic search, a user who enters descriptive terms that are not present in the stored text, such as "mid-season coat", can obtain relevant results covering all related products (jackets, windbreakers, thin parkas, etc.), even if these words are not present as such in the descriptions.
The engine interprets the user's idea instead of trying to match words.

### SEMANTIC SEARCH IN A CLOTHING CATALOG

Imagine a customer visiting an online store to find a lightweight jacket for spring, but not knowing the exact terminology. When the users searches for:

**"mid-season coat"**

**Standard search (exact keywords):**

Search results will only include: items with a description that contains exactly "coat" and "mid-season".

The following are missing:
• lightweight windproof jackets,
• unlined zipped jackets,
• thin, water-repellent parkas, because the description of these products does not include the term "mid-season".

**Semantic search:**

The search engine understands that the customer's intention is to find a lightweight outer garment suitable for mild or variable weather.

It also includes:
• lightweight waterproof jacket,
• spring jacket,
• mid-season anorak,
• unlined windproof parka.

Even if the words don't appear in the product descriptions, the query will produce results that are relevant to the customer's needs.

## 159
**FTP SERVER MANAGEMENT**

The native `ftpConnection` type simplifies the use of `FTP` functions.
All `FTP` functions can therefore take a variable of type `ftpConnection` instead of a string.
This also enables the use of prefix syntax.

```
MyFTPConnection is ftpConnection

MyFTPConnection.Server = "192.54.12.8"

MyFTPConnection.Connect()

MyFTPConnection.Send("C:\MyDocuments\NewDoc.doc","/temp")
```

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Prefix syntax available*

## 160
New feature WD WB WM •
**SSH FUNCTIONS**

Two new SSH functions have been introduced:
• `SSHConnectCommand`: Keeps the SSH session active between commands sent to an SSH server.
• `SSHDisconnectCommand`: Stops the active SSH session.
BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*New functions, more control*

## 161
New feature WD WB WM •
**CREATE SELF-EXTRACTING APPLICATIONS WITH VERSION NUMBER**

The WLanguage `zipCreateExe` function can now be used to specify a version number for the self-extracting executable.
This version number can be retrieved using the `ExeInfo` function (`exeVersionWindowsFormat` constant).
The function can also be used to create 64-bit self-extracting executables.
BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Essential information in your executables*

## 162
New feature WD WB WM •
**30% AND 90% FASTER COMPRESSION FUNCTIONS**

In version 2026, `zip` functions are 30% faster when handling zip archives, and 90% faster when handling 7z archives.
Simply call the new `ZipStartAddingFile` and `zipEndAddingFile` functions to add files to the archive to be created.
BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*The faster, the better*

## 163
New feature WD WB WM •
**ENVELOPED SIGNED BUFFER: DATA EXTRACTION**

The new WLanguage `CertificateExtractEnvelopedMessage` function allows you to extract the content of an enveloped signed message.
BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Practicality*

## 164
New feature WD WB WM •
**TOAST: NEW FEATURES**
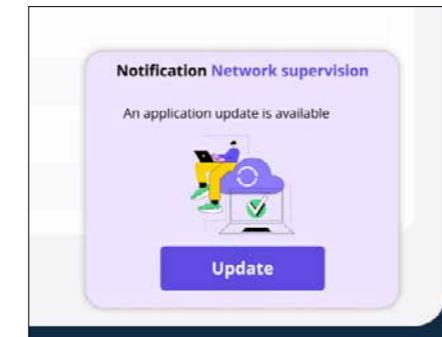

*Sample toast with image*

The WLanguage `Toast` type offers a host of new UI features to modernize the look and feel of toast messages.
These are some of the main new features:
• ability to include images
• external margins
• opening and/or closing animation
• rounded corners
BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Modern, user-friendly UI*

## 165
New feature WD WB WM •
**DRAWING FUNCTIONS**

The syntax of drawing functions has been simplified in version 2026. The presence of a control is no longer mandatory.
• `dTextHeight` calculates text height in pixels.
• `dTextWidth` calculates text width in pixels.
• `ImageInfo` returns various details about an image.
BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*No controls but still in control*

## 166
New feature WD WB WM •
**TEST OR PRODUCTION CONTENTS IN PASSWORD VAULT**

The new WLanguage `VaultUseContentsForTestMode` function lets you specify whether you want to use passwords for testing or actual passwords.
The `VaultSecretContents` function shows whether test passwords are currently in use.
BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Makes password management easier than ever*

# OOP: LOCAL? DYNAMIC?
## NO MORE DOUBT

## AN OBJECT, A REFERENCE

WINDEV supports both procedural and object-oriented programming.
In version 2026, object-oriented programming features a new, more comprehensive mode.
Legacy mode is of course still supported.

## 167
New feature WD WB WM
**THE NEW "CLASSES ARE REFERENCES" MODE**

In the new object-oriented programming mode, classes are manipulated by reference. This means all instance variables are now references to objects, not copies.
In this mode, values cannot be assigned to `Class` variables as with simple types.
It is no longer possible to copy an object directly by assigning it. Class variables can only take an existing reference (sharing the same object in memory) or be explicitly duplicated via a dedicated method.
In this mode, the identity of the object is distinct from the variable that references it.
BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*New, modern programming approach*

## 168
New feature WD WB WM
**PARAMETER PASSING**

When passing parameters, it is no longer necessary to specify `local` or `dynamic`, since the parameter is a reference to the object.

This simplifies syntax and code writing.
BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Cleaner, more intuitive programming*

## 169
New feature WD WB WM
**A MODE FOR THE PROJECT OR INTERNAL COMPONENT**

When this new mode is chosen, it applies to the entire project, or only to an internal component in the project.
You can use a project in one mode with an internal component in another mode.
BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Progressive adaptation*

## 170
New feature WD WB WM
**PASS A REFERENCE... BY REFERENCE**

The new mode allows you to pass a reference by reference. This makes it possible to modify the caller's reference.
See New feature 133.
BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Your references are our references*

## 171
New feature WD WB WM
**MISCELLANEOUS**

• Classes, .NET and Python objects are nullable.
• It is possible to declare reference classes in the old mode.

## 172

New feature WD WB WM

### ACCESS PASSWORDS IN THE VAULT PROGRAMMATICALLY

When you have the password for the vault (one of the master passwords), you can access the secret contents of the vault programmatically.

Simply use the new `VaultGetContent` function.

This makes it possible to determine if passwords are manipulated in readable format anywhere in the code, and build an authentication string from different elements, for example.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*You hold the key*

## 173

New feature WD WB WM •

### LOOP THROUGH A TABLE IGNORING ACTIVE FILTERS

The new `<ignore filter>` attribute is used to indicate that a function should iterate over every element in a Table control regardless of any active filters.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*New feature, no filter*

New feature WD WB WM •

## 174 to 178   MISCELLANEOUS

- The `OpenDocument` function can now handle `wddiag` objects.
- The `EmailSaveAttachment` function can now handle attachments encoded in UUEncode format.
- Enumerations and combinations can now be serialized in JSON format.
- The new `IntegerToBuffer` function to convert integers into a buffer in Little Endian or Big Endian format.
- .ICS objects (iCalendar format) can now be handled as email attachments.

## OBJECT-ORIENTED PROGRAMMING

## 179

New feature WD WB WM

### ZOMBIE ATTRIBUTE ON CLASSES

Reminder: The `Zombie` attribute indicates that an element cannot be deleted, but must no longer be used.

Classes now support this attribute.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Ever seen a classy zombie?*

## 180

New feature WD WB WM

### EQUAL STRUCTURES

In version 2026, you can use equality "=" and difference "<>" in a structure thanks to the `<equality>` attribute.

When the `<equality>` attribute is present in the structure declaration, equality is activated on all members.

When the `<equality>` attribute is present on one or more members of the structure, equality is enabled only for those members.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Not all structures are made equal, are they?*

## 181

New feature WD WB WM

### REFLECTION

In version 2026, it is possible to retrieve the methods of classes overridden by reflection.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*More programming possibilities*

## 182

New feature WD WB WM

### INTERFACES

The `IS` and `DOWNCAST` keywords, as well as the `..Class` property are available for interfaces (abstract classes).

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Useful keywords*

## COMPATIBILITY WITH THIRD-PARTY LANGUAGES

## 183

New feature WD WB WM

### WRITE THIRD-PARTY LANGUAGE CODE DIRECTLY IN THE CODE EDITOR

In version 2026, the code editor supports a wide range of languages:

- C / C++
- C#
- CSS
- Fortran
- GB
- HTML
- INI
- Java, JavaScript
- JSON
- Kotlin
- Markdown
- Objective-C
- PHP
- Powershell
- Python
- Rust
- Shell
- SQL
- Swift
- TypeScript
- WLanguage
- XML
- YAML
- Zig
- Windows batch

See New feature 101.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*One editor for all your languages*

## HFSQL DATABASES

**HFSQL®**

## 184

New feature WD WB WM •

### SMARTER NOTIFICATIONS

The notification system has been improved to provide you only with essential information.

For example, "intrusion attempt" and "replication error" notifications no longer appear multiple times.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Receive only useful notifications*

## 185

New feature WD WB WM

### ASYNCHRONOUS EXECUTION OF STORED PROCEDURES

In version 2026, the new `HExecuteAsynchronousProcedure` function can be used to run a stored procedure without waiting for the end of execution.

A callback function can be run at the end of execution.

This callback takes the return value of the stored procedure as a parameter.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Applications are never blocked*

## 186

New feature WD WB WM •

### PASSWORD SECURITY POLICY

To manipulate data in an HFSQL Client/Server database, users need to authenticate using login credentials.

You can now implement a password security policy to define how long and how complex passwords should be, and how often they should be renewed (e.g. passwords must be changed every month).

This policy can be defined and modified programmatically, or via the HFSQL Control Center.

A series of new WLanguage functions is available for this purpose:

- HSecurityPolicyUnlockAccount
- HSecurityPolicySet
- HSecurityPolicyGet
- HSecurityPolicyCheck

The new **hSecurityPolicy** type allows you to define and view the security policy.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Security policies that meet your standards*

## 187

New feature WD WB WM

### REPLICATION: INTEGRITY ERRORS ACCORDING TO THE ORDER OF OPERATIONS

The new `ReplicSynchronize` function retries synchronization as long as there are integrity errors and as long as their number decreases with each attempt.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Fix errors automatically*

## 188

New feature WD WB WM

### REPLICATION: IGNORE ACTIVE FILTERS

A new parameter of the `ReplicSynchronize` function makes it possible to ignore active filters.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Fix errors regardless of active filters*

## 189

New feature WD WB WM

### REQUEST: OPTIMIZATIONS

In version 2026, queries with overlapping condition ranges are faster.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*The faster, the better*



**HFSQL INTEGRATED - ROBUST - FAST**

## 190

### OPTIMIZED COMPRESSED CONNECTIONS

Connection speed has been optimized for cases where a large number of clients request a compressed connection to the server.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Better performing connections*

## 191

### UNIXODBC

A new Linux driver is available for UnixODBC.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Drivers can always come in handy*

## 192

### DOCKER HFSQL: MULTILINGUAL SUPPORT

Docker and Podman now support English and French, depending on the language specified as an environment variable in the docker image.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Multilingual support*

# SQL FUNCTIONS

## 193 to 202 — 10 NEW SQL FUNCTIONS

10 new SQL functions are introduced in version 2026.

| | |
|---|---|
| LOCALTIME | Returns local server time (in date-time format). |
| LOCALTIMESTAMP: | Returns the server's local time in the local time zone. |
| CURRENT_TIME | Returns the current time. |
| CURTIME | Returns the current time. |
| CURDATE | **Returns the current date.** |
| HOUR | Extracts the number of hours. |
| MINUTE | Extracts the number of minutes. |
| SEC_TO_TIME | Converts a number of seconds into duration. |
| SECOND | Extracts the number of seconds in an hour. |
| MILLISECOND | Extracts the number of milliseconds in an hour. |

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*More functions, more possibilities*

# HFSQLDRIVE: YOUR HFSQL DATABASES IN THE CLOUD IN 3 CLICKS

HFSQLDrive lets you easily and immediately host your databases (tables) in the Cloud.
A mobile app that stores data in the cloud is also at your disposal.
Attractive flat rate subscription.
Host your databases for less.

To learn more, visit **www.hfsqldrive.com**

# HFSQL CLUSTER

## 203

### OPTIMIZATION

HFSQL Cluster has become much more robust over the years. It has been optimized for new cases of parallel tasks.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Modern, robust database engine*

## 204

### FASTER NODE SYNCHRONIZATION

In version 2026, nodes synchronize even faster in events such as Windows updates, network failures, etc.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Up and running in no time*

## 205

### AUTOMATIC TIME-STAMPING

In version 2026, automatic time-stamping items are supported.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Useful standard*

# HFSQL CONTROL CENTER

## 206

### KEYCHAIN

The HFSQL Control Center stores passwords for connections, data files, analyses, etc.
These passwords are now securely stored using a keychain.
Now you can enter passwords only once (e.g., to access a data file for the first time). The password will only be requested again if it is changed elsewhere.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Only you hold the key*

## 207

### FIND DUPLICATES

Key items may contain duplicates.
You can now check for duplicates in a given item.
The search returns the value of duplicate items and the number of occurrences.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*No more double vision*

## 208

### NON-BLOCKING REINDEXING FROM THE CONTROL CENTER

Now, you can launch one or more non-blocking reindexing operations from the Control Center.
No additional programming required.

HFSQL

INTEGRATED - ROBUST - FAST

This means the HFSQL Control Center can be closed without any impact on reindexing.

Reindexing results will be available in the "Optimization" tab.

It is possible to close the Control Center, or perform other operations, and return to check on progress.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Reindexing with one click*

## 209 New feature WD WB WM •
### MISCELLANEOUS

When creating a new user, the Control Center suggests creating a secure password.

## DATABASE NATIVE CONNECTORS

Numerous Native Connectors are available for third-party databases: Oracle, SQL Server, AS/400, DB2, MySQL, PostgreSQL, SQLite, xBase, MariaDB, Informix, Progress, Sybase, and more.

These Native Connectors facilitate programming (data binding, etc.)., and keep evolving in version 2026.

## 210 New feature WD WB WM
### MYSQL, MARIA DB: DATA COMPRESSION

The native MySQL and MariaDB connectors in version 2026 offer the ability to compress data being exchanged.

This option can be defined in the connection parameters.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*More efficient communication*

## SQL QUERY EDITOR

## 211 New feature WD WB WM
### ASK YOUR AI COMPANION TO CREATE OR MODIFY AN SQL QUERY

The use of conversational AI to create SQL queries is truly impressive.

Simply specify what the query should do, using natural language.

AI will determine the data files (tables) to be used, as well as the best controls (columns), links, joins, etc.

You can modify an existing query at any time, whether or not created by AI.

See New features 001 to 006.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*AI everywhere, even in SQL*

## WEB SERVICES & MICROSERVICES

## 212 New feature WD WB WM •
### GRAPHQL

GraphQL is a new, increasingly popular web service standard.

GraphQL web services are now natively supported in WINDEV, WEBDEV and WINDEV Mobile.

See New feature 144.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Easily adoption of new standards*

## 213 New feature WD WB WM •
### IMPORTING SOAP WEB SERVICES

A SOAP web service can contain several services of the same name. This is the case, for example, with electronic invoicing in Belgium.

It is now possible to import into the environment SOAP web services whose description contains several services of the same name.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Duplicate name problems are a thing of the past*

## 214 New feature WD WB WM •
### REST WEB SERVICES: SEND AND RECEIVE CHUNKED DATA

A given entry point can expect "chunked" responses.

To facilitate this process, data can be sent using the new WLanguage `WebServiceSendChunk` function

You can also enable the reception of chunked data using a callback, assigned to the variable of type `httpRequestvariable`, which is called as data is received.

See New feature 511.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Exchange data in manageable sizes*

## 215 New feature WD WB WM •
### OPENAPI WEB SERVICES: INHERITANCE AND ARRAY SUPPORT

This feature enables the use of REST APIs in compliance with the OpenAPI 3.x specification, with advanced support for complex data structures: object inheritance, arrays, etc.

The **oneOf**, **anyOf** and **allOf** clauses are supported.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Support for simple and complex data*

## 216 New feature WD WB WM •
### F2 SHORTCUT FOR WEB SERVICE PROCEDURES

When you press F2 while positioned on a web service procedure , the prototype of this procedure is displayed in the editor.

In version 2026, this prototype benefits from syntax highlighting.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*No more black and white*

## XML

## 217 New feature WD WB WM •
### XADES SIGNATURE

XAdES (XML Advanced Electronic Signature) is used to digitally sign XML documents in a way that is legally reliable and compliant with European standards, in particular the eIDAS regulation.

XAdES allows you to:
• Guarantee the integrity of XML content = prove that it has not been modified.
• Authenticate the signatory = link the signature to a verified identity (electronic certificate).
• Give legal value to a signed XML document (contract, invoice, administrative file, etc.)
• Use time-proof evidence = thanks to extensions such as timestamps or validation information (XAdES-T, XAdES-LT, etc).

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*New standards*

## IOT

## 218 New feature WD WB WM •
### MQTT

In version 2026, you can easily determine the status of an MQTT connection.

You can also be notified in the event of server disconnection.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Now you know*

## 219 New feature WD WB WM
### MISCELLANEOUS

It is possible to pass a Windows Certificate Store as a parameter to the `SocketCreateSSL` function.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Store selection*

# BLOCKCHAIN

## 220 New feature WD WB WM
### 2 NEW FUNCTIONS

In version 2026, the `Bitcoin` family is enhanced by 2 new functions:
- `BitcoinCoreDifficulty` returns the current difficulty required to mine a block.
- `BitcoinCoreHashRate` returns the minimum number of hashes to calculate per second required to mine a block.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Get essential information in one line of code*

# SMART CARDS IN HEALTHCARE

## 221 New feature WD WB WM •
### SIGNING WITH SMART CARDS IN THE HEALTHCARE SECTOR

Several European countries are implementing patient authentication mechanisms using smart cards.
WINDEV 2026 supports smart-card signing for all data exchanges between the practitioner and the corresponding administration center.
(See New feature 254)

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Solutions for every field*

# TELEMETRY

Application usage metrics are a phenomenal tool.
Metrics enable you to collect and aggregate information on how your applications are actually used. This includes most used functionalities, processing times, menu options selected, buttons clicked, bugs, usage times, etc.
You can also identify the end-users' hardware configuration and OS.
The metrics tool can be installed on your own servers, or via PCSCLOUD.NET, which provides a telemetry server.

## 222 New feature WD WB WM
### DETECT EXCEPTIONS

It is always useful to know if one of your applications has encountered a serious problem.
Likewise, it can be useful to identify the exceptions that occur when those applications are used.
In version 2026, you can collect the details of these exceptions, using the new WLanguage `TelemetrySendExceptionInfo` function.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Truly exceptional*

# AUTOMATED TESTS

## 223 New feature WD WB WM
### COPY AND PASTE SCENARIOS

Automated tests are a highly appreciated tool in WINDEV.
In version 2026, you can copy and paste scenarios within the same test, or into another test.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Fast and intuitive testing tools*

# MONITORING BOT (WATCHDOG)

## 224 New feature WD WB WM
### SSH MONITORING

Some servers only respond to requests using the SSH protocol (if only the SSH port is open).
In version 2026, the monitoring robot can send SSH commands to check that a server of this type is active.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*An actually helpful robot*

## 225 New feature WD WB WM
### HFSQL SERVER MONITORING ON A LOCAL AREA NETWORK (LAN)

When the robot detects a failure in the HFSQL server, the report indicates whether the failure originates from the HFSQL server or from the machine.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Precise information*

## 226 New feature WD WB WM
### MULTILINGUAL SUPPORT

The Robot is now available in English, Spanish and French.
The notifications sent by the Robot are in the selected language.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Sí señor*

# BIG DATA

## 227 New feature WD WB WM
### REDIS AND VALKEY: COMMAND TIMOUT

As you know, version 2026 supports Redis and Valkey big data databases.
The new `..CommandTimeout` property of `redisConnection` variables allows you to set a time limit for the execution of a command.
Timeouts prevent applications from freezing and allow you to handle communication errors.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Better error handling*

*Everything is under control with version 2026*

# The best DevOps suite



# All the advantages of a subscription

**Automatic**

**Accessible**

**Available**

**Continuous updates**

**Budget under control**

**Offline mode**

# WINDEV 2026

COLLABORATIVE
POWERFUL
AGILE

**228** New feature WD WB WM

THE 227 COMMON NEW FEATURES OF VERSION 2026 ARE AVAILABLE IN WINDEV

## WINDEV 2026

gets the 227 common new features of version 2026, including the improved editors, conversational AI, grid positioning, Factur-X invoicing, improved code editor, the new Nested Proportional Area chart, improved SCM, WLanguage and OOP improvements, and more.

POWERED by PC SOFT

# INTEGRATE A CONVERSATIONAL AI AGENT INTO YOUR APPLICATIONS

## THE USER CHATS WITH THE "AI CHAT" CONTROL TO DRIVE THE WINDEV APPLICATION

## 229 New feature WD WB WM
### LET USERS CHAT WITH THE AI MODEL OF YOUR CHOICE AND LET THE APP DO THE REST

With version 2026, your WINDEV applications can easily interface with your the AI model of your choice.
Conversations can contain:
- text,
- images,
- one or more actions in the application.

The AI Chat control allows users to enter these conversation elements.
The control then sends them to the model, retrieves the response and displays it as it goes along.
If the model suggests performing certain actions, the AI Chat control can perform them.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*All the power of AI in your applications*

## 230 New feature WD WB WM
### SUPPORTED MODELS

With the AI Chat control, you can choose the model that better suits your application: Claude, Mistral, GPT, Gemini, OpenRouter, etc.

*API account required: The AI Chat control uses the model of your choice. You must have an API account for the respective model provider in order to use the AI Chat control.*

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*The control adapts to your preferred engine*

## 231 New feature WD WB WM
### CODE EXAMPLE

The AI Chat control can launch procedures from your applications. To specify that a procedure can be used by the AI Chat control, simply indicate its desired action and parameters between the `<AI>` and `<END>` tags.
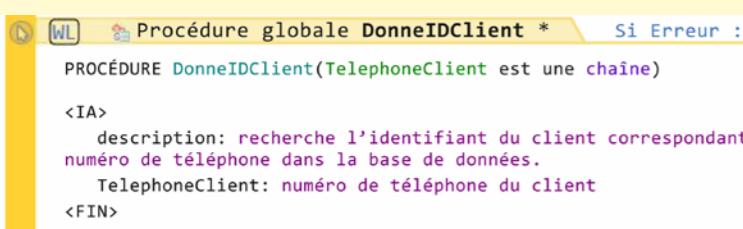
```
WL  Procédure globale DonneIDClient *    Si Erreur : p
PROCÉDURE DonneIDClient(TelephoneClient est une chaîne)

<IA>
    description: recherche l'identifiant du client correspondant à
numéro de téléphone dans la base de données.
    TelephoneClient: numéro de téléphone du client
<FIN>
```
*Code that can be executed by the AI Chat control*

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Easily integrate AI into your applications*

## 232 New feature WD WB WM
### AI CHAT CONTROL FEATURES

The new AI Chat control offers a host of integrated features.
- Conversation Edit control
- Real-time response in Markdown format
- Reset conversation button
- Model selection
- System prompt configuration
- New processes in the code editor: Token reception, response received, confirm send, etc.
- Companion icon customization
- Response rating (Like/Dislike).
- 3 new WLanguage types: `aiConversation`, `aiConversationElement`, `aiModelInfo`.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*One control, infinite power*

---

# PALETTE EDITOR



## 233 New feature WD WB WM
### PALETTES: AN INNOVATIVE CONCEPT FOR UI CUSTOMIZATION

Color palettes were introduced in version 2025, allowing developers to easily create coherent UIs.
The latest skin templates are associated with a color palette.
Palettes are interchangeable between skin templates.
Changing the palette (dynamically or statically) changes all the colors in a single operation.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*UI customization made easy*

## 236 New feature WD WB WM
### VIEW CHANGES IN THE EDITOR

The palette editor features an built-in test mode.
You can see a real-time preview of the color palette applied to the most frequently used controls.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*See and try changes in real time*

## 234 New feature WD WB WM
### EASILY MODIFY EXISTING PALETTES

With the palette editor, you can easily edit existing palettes.
BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*A couple clicks is all it takes*

## 235 New feature WD WB WM
### NEW PALETTE CREATION WIZARD

The palette editor lets you create a palette from scratch.
To obtain a cohesive set of colors, the palette starts with a few dominant colors, which define the overall style.
Secondary colors are then derived automatically from these dominant colors, using a customizable formula.
It is also possible to manually define one or more secondary colors.
The intuitive UI of the palette editor reflects changes in real time.
BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Intuitive palette creation method*

## PALETTES

### 237 New feature WD WB WM
**DARK PALETTES COMBINED WITH LIGHT PALETTES**

With WINDEV, your applications can dynamically switch between light and dark mode using a single line of code.
In version 2026, associated dark and light palettes use the same dominant colors.
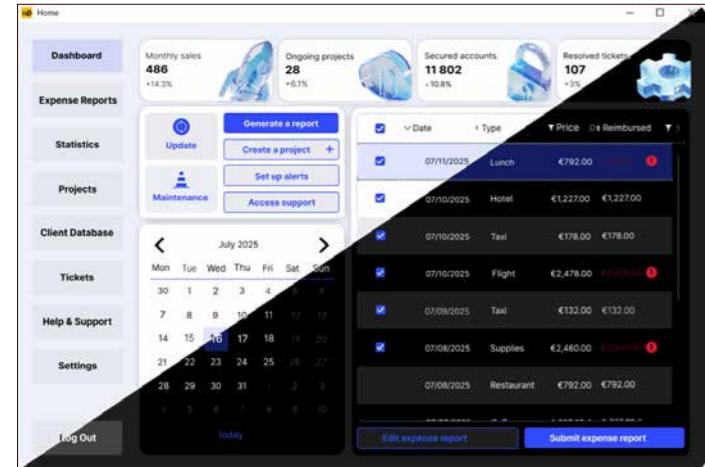
*Easily distinguish each block*

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Consistent look regardless of the theme*

### 238 New feature WD WB WM
**TOASTS: USING THE COLORS OF THE PALETTE**

In version 2026, toasts default to the current color palette.
This ensures that the toast complies with the style book guidelines, and adapts to dark mode.

*Toast in light theme*
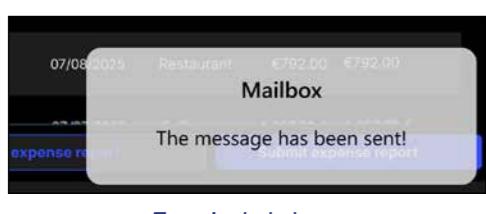
*Toast in dark theme*

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Consistent UI, including toast messages*

## NEW CONTROLS

### 239 New feature WD WB WM
**NEW GRID CONTROL**

In version 2026, the new Grid control optimizes the relative positioning of controls in WINDEV application windows.
See New features 010 to 016.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*For pleasant, fluid and responsive UIs*

### 240 New feature WD WB WM
**NEW AI CHAT CONTROL**

In version 2026, the new AI Chat control lets you integrate a conversational AI companion into your WINDEV applications.
See New features 229 to 232.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*AI in your applications*

## NEW SMART CONTROLS IN WINDEV 2026

Smart controls save valuable time during the UI creation process, and immediately make your applications more sophisticated.

New Smart controls in WINDEV 2026:
- 4 new segmented buttons,
- Product Looper
- Event Looper
- IBAN input
- SIREN number input

### 241 New feature WD WB WM •
**4 NEW SEGMENTED BUTTONS**

Segmented buttons, introduced in version 2025, combine the functionality of a Check Box or Radio Button control with the practicality of multiple controls merged into one.
Version 2026 offers 4 new Smart controls to make your applications even more powerful.
Each Smart control has its own advantages:
- Multiple selection,
- Highlight selected options,
- On/Off mode,
- etc.
Of course, you can use these controls as a template, and customize them completely.
The different controls adapt to the palette of your project.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*One control, many possibilities*

### 242 New feature WD WB WM •
**PRODUCT LOOPER CONTROL**

The new "Product Looper" Smart control is based on a Looper control, but has been optimized to display a list of products.
As with all Smart controls, controls and styles use the best layout possible by default.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*One control, all essential details at a glance*

### 243 New feature WD WB WM •
**EVENT LOOPER CONTROL**

The new "Event Looper" Smart control has been optimized to display a list of events.
This Smart control allows users to easily manage event dates and bookings.
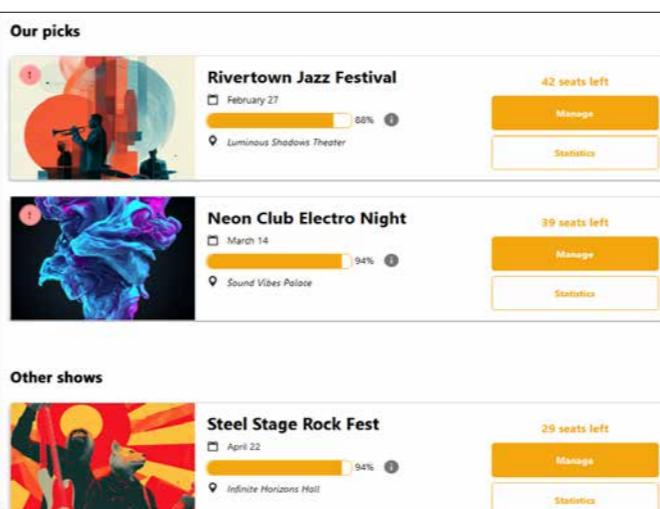
BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Modern, user-friendly layout in a single control*

### 244 New feature WD WB WM •
**IBAN INPUT AND VERIFICATION**

The new "IBAN input" Smart control lets users enter an International Bank Account Number (IBAN) and check its validity.
Additionally, the Smart control gives users the possibility to scan a document, run OCR on it and automatically detect and fill in the IBAN in the application.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Easily avoid input errors*

## ENVIRONMENTAL POLICY

Preserving our environment is essential.
When PC SOFT prints physical documents, PC SOFT , the paper supplier or the printer, (FSC - Forest Stewardship Council - certified and PEFC - Program for the Endorsement of Forest Certification - certified) replants as many trees as the ones that were used to print. The FSC label was created by the FSC, an NGO that includes, among others, Greenpeace, Friends of the Earth and the WWF. For example, it takes 50 trees with a +-inch diameter to print 100,000 copies of a 92-page document on glossy paper. PC SOFT or the printer immediately replants 50 trees. Additionally, we mainly use paper pulp coming from wood waste (e.g. sawmills) and forest thinning.

## 245 New feature WD WB WM ●
### SMART BUSINESS IDENTIFICATION WITH SIREN NUMBER

SIREN is a unique French business identification number.
The "SIREN Code" Smart control checks the validity of the number entered by the user and displays a link to the corresponding business on the national business directory.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Not a siren song, but a Smart control*

## TABLE CONTROL: NEW FEATURES

## 246 New feature WD WB WM
### TABLE AND LOOPER CONTROLS: INTUITIVE BREAK SETTINGS

In version 2026, the Table control makes it easy to define the expected behavior of the expand/collapse buttons for breaks in Table controls.

Two new options are available:
• show or hide the collapse icon.
• expand a break with one click, double click or never.
The existing layout is preserved, and the two options are positioned according to the existing layout.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Your controls, your choice*

## 247 New feature WD WB WM
### TABLE AND LOOPER CONTROLS: HIDE THE BREAK BANNER PROGRAMMATICALLY

In a Table control, when a break is displayed, it may be necessary to hide the associated banner. A common case is the first break at the top or the last one at the bottom.
In those cases, the contents of the break have to be displayed and the break is not collapsible.
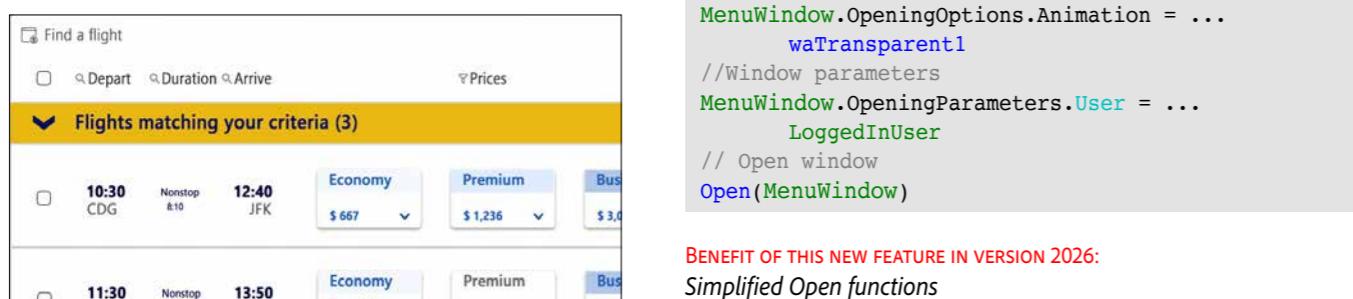
*Break banner not required here*
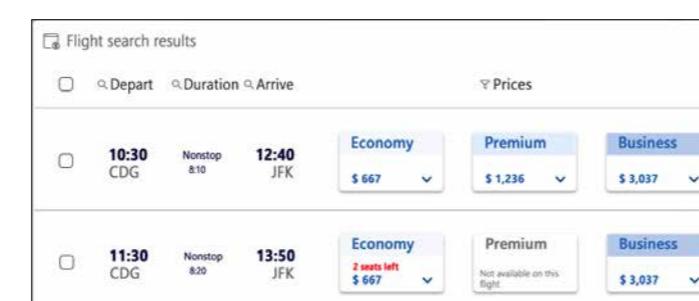
*Hidden banner in version 2026*

This is now possible by using the `..Visible` property on the relevant break.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Cleaner UIs*

## 248 New feature WD WB WM ●
### TABLE WITH ACTIVE FILTER: INDEX OF SELECTED ROW

The WLanguage `TableSelect` function returns the index of the selected row.
In earlier versions, this function returned the index of the selected row, taking the active filter into account.
This could make it difficult to find the initial position in the Table control.
In version 2026, the new `tsRowNoFilter` constant allows you to ignore the active filter and get the initial index.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Easier programming*

## NEW FEATURES FOR CONTROLS

## 249 New feature WD WB WM ●
### INITIALIZE A WINDOW BEFORE OPENING

In version 2026, it is possible to initialize the properties of a window before opening that window. Common properties include size, positioning, parameters, etc.
The new WLanguage `Window` type allows you to set these properties before opening the window.

```
MenuWindow is Window WIN_Main
//Window opening options
MenuWindow.OpeningOptions.Position = ...
        winPositionCenteredInScreen
MenuWindow.OpeningOptions.Animation = ...
        waTransparent1
//Window parameters
MenuWindow.OpeningParameters.User = ...
        LoggedInUser
// Open window
Open(MenuWindow)
```

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Simplified Open functions*

# COLOR PALETTES

## 250 New feature WD WB WM
### NEW COLOR PALETTES FOR WINDEV

Version 2026 features many new color palettes.
This allows for new customization possibilities.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Instant new look!*

Feel free to use these palettes in your applications and software packages.

Remember you can dynamically switch between palettes, and even create your own.

WINDEV includes everything you need to create superb UIs.
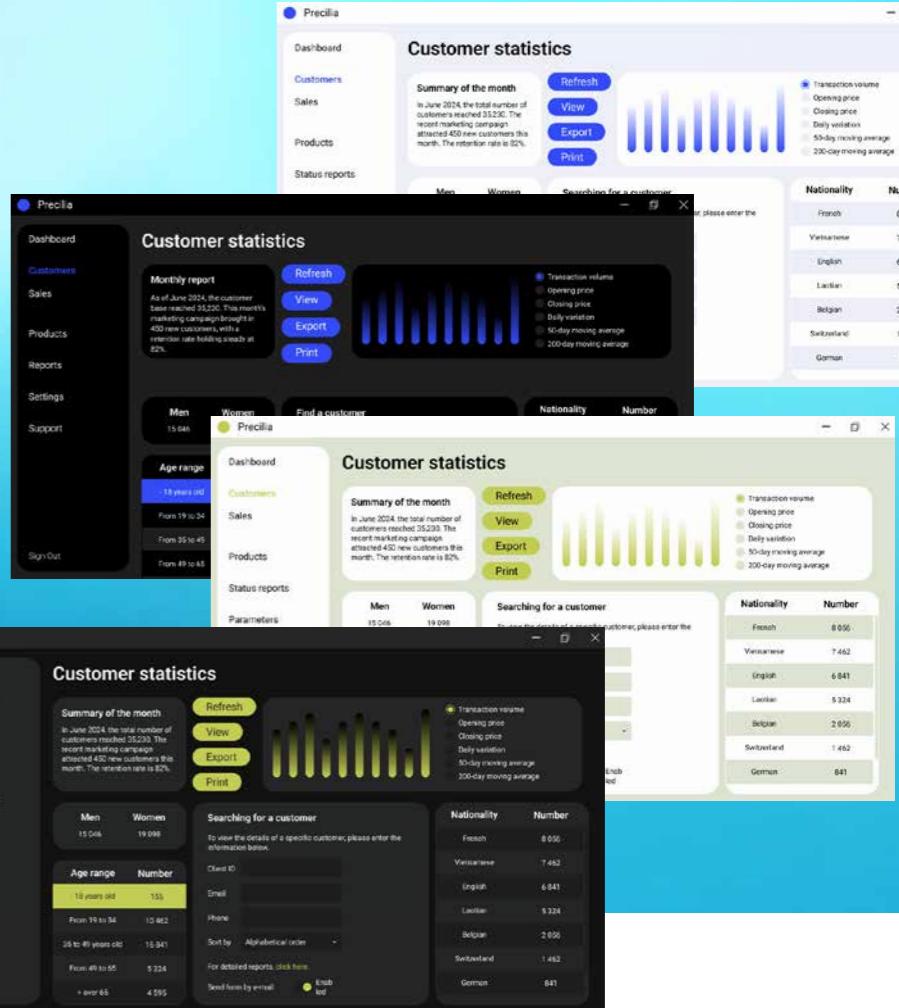
## 251 New feature WD WB WM
### MARKDOWN: IMPROVEMENTS
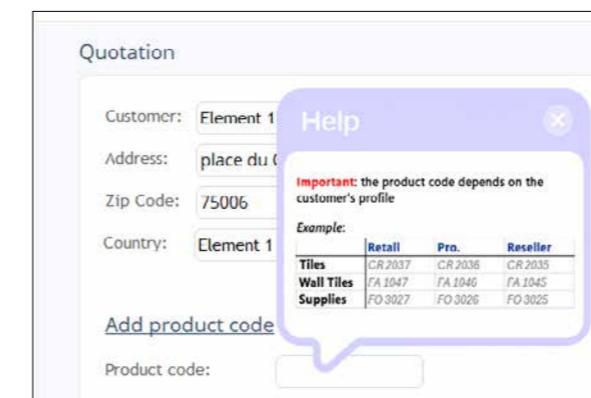
*The content of the bubble displays a Markdown array*

As you know, WINDEV controls support Markdown formatting.
Version 2026 enables you to integrate tables into Markdown text.
You can also integrate lines of WLanguage code into Markdown text. These lines of code will automatically use syntax highlighting.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Versatility for your UIs*

## 252 New feature WD WB WM
### CHECK BOX CONTROLS: ROUNDED CORNERS

A new option in the 7-tab window lets you choose a new style with rounded corners.
The border of the check box will use the color defined by the palette and automatically adapt to the design language of your application.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Don't cut corners, just make them more beautiful*
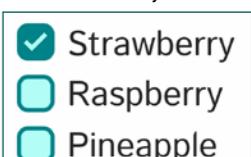
## HELP IN YOUR APPLICATIONS

## 253 New feature WD WB WM
### HELP EDITOR

Now, you can specify layout options when generating help pages as PDF documents:
• one or two-page layout
• cover page
• protection

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Better, clearer help documents*

# CERTIFICATE-BASED SIGNING WITH SMART CARDS

## 254 New feature WD WB WM
### HOW IT WORKS

Certificate-based signing using smart cards offers an additional authentication method.
This mechanism enables users to sign documents or data using a digital certificate stored on a smart card.
Some examples include health cards, professional cards, cryptographic cards, etc.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Guaranteed security*

## 255 New feature WD WB WM
### THE PRIVATE KEY STAYS ON THE CARD

This method guarantees a secure signing process:
- The card stores a private key associated with a certificate (e.g. X.509) issued by a certificate authority.
- When signing, the card is inserted into a compatible reader (PC/SC).
- The software reads the data on the card.

- The signature is generated locally on the card, without ever exposing the private key outside the secure component.

Security is guaranteed, as the private key never leaves the card.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Users hold the key, literally*

## 256 New feature WD WB WM
### WLANGUAGE PROGRAMMING

All WLanguage functions for signing, such as `PDFSign`, `XMLSign`, etc., support certificates stored on smart cards.

Using the `CertificateList` function, the application retrieves all accessible certificates, including those on a smart card that is inserted into the reader.

You can then simply browse this list to select the certificate from the smart card, represented as a variable of type `Certificate` in WLanguage.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Select the right certificate*

## DID YOU KNOW?
Digital signatures prove the authenticity of a document, while digital certificates prove the identity of the signer.

# WINDEV ENVIRONMENT

## 257 New feature WD WB WM
### COMMON NEW FEATURES

WINDEV's environment benefits from the common new features in version 2026 (see New features 059 to 067), including the use of Direct2D in the environment, the improved Modifier pane, clearer presentation of Smart controls, code editor improvements, etc.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*An ever better development environment*

# WINDOW EDITOR

## 258 New feature WD WB WM
### COMMON NEW FEATURES

WINDEV's window editor benefits from the common new features including the new Chart control, improvements made to Spreadsheet controls, etc.
See New features 010 to 056.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Powerful new features*

## 259 New feature WD WB WM
### HOT RELOAD

In version 2026, changes made in the window editor during test mode are immediately reflected in the window being tested.

You can enlarge or move a control, modify a button image, etc.
See New feature 263.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Feel free to make changes during testing*

## 260 New feature WD WB WM
### GRADIENT WITH PALETTE COLORS

Palettes define the colors of your applications.
Several elements of your project can use gradient colors: window backgrounds, control borders, progress bars, etc.
In version 2026, it is possible to use palette colors to define the gradient.
The specified colors will automatically adapt to the palette used.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Wide, yet cohesive range of colors*

## 261 New feature WD WB WM
### ADVANCED MODIFIER

The new options available in the Modifier pane allow you to easily edit all your controls.
See New feature 081.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*All the options you need*

## 262 New feature WD WB WM
### MISCELLANEOUS

In version 2026, a UI error notification is displayed when the content of a Combo Box is empty in one of the languages associated with the project.

# EASILY TRANSFORM WINDEV APPLICATIONS INTO WEBDEV SITES

## SEAMLESS WEBIFICATION

Transforming your existing WINDEV applications (or parts of applications) into websites is easier than ever before.
The split view in the environment allows you to edit windows and pages at the same time, which makes everything easier.
The migration wizard simplifies the webification process.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Turn your WINDEV applications into websites*

**Run a webification audit to seamlessly transform your WINDEV application into a web solution.**

# HOT RELOAD

## DON'T LEAVE TEST MODE

## HOT RELOAD LETS YOU SEE YOUR UI CHANGES IN REAL TIME, WITHOUT LEAVING THE TEST MODE

### 263 New feature WD WB WM
**REAL-TIME UI CHANGES**

Here's an example of a common scenario:
You are developing an ERP application and you launch test mode:
- You enter login credentials
- The first window opens
- You search for a customer, you open the order history and select an order.
- You open the details of a specific item in the order and **...boom, a control that was not anchored properly appears truncated.**

In version 2026, you don't need to close the test window. Simply go to the 7-tab window of the control, change the anchor options, save changes, and the window in test mode will immediately reflect those changes.

Just imagine all the time you can save.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*An absolute game changer*

### 264 New feature WD WB WM
**HOW IT WORKS**

It's very simple: Any changes made in the development environment are immediately reflected in your application in test mode.
The only exceptions are properties modified programmatically. In this case, the values of those properties are preserved.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Massive time saver*

### 265 New feature WD WB WM
**EDIT AND CONTINUE**

"Edit and Continue" is feature that allows developers to modify the source code of an application during a debugging session, without having to interrupt or restart program execution.

This feature significantly improves productivity by reducing stop/start cycles, especially when fixing bugs or adjusting business logic on the fly.

For example, in a "step-by-step" debugging mode, if a developer discovers that an error case has not been handled, they can simply write the error handling code, and continue debugging with the current data.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*More efficient workflow*

### 266 New feature WD WB WM
**4 EXAMPLES**

Edit and continue quickly becomes an essential tool. When you launch an application in test mode:

- Need a Print button?
  *ADD IT WITHOUT CLOSING TEST MODE*
- Are any of the controls too small?
  *RESIZE CONTROLS DIRECTLY IN THE WINDOW EDITOR*
- An incorrect or forgotten anchor option?
  *FIX IT DIRECTLY IN THE 7-TAB WINDOW*
- Wrong parameters or incorrect code when a function is executed?
  *MODIFY YOUR CODE DIRECTLY.*

You don't need to close test mode, populate controls and launch test mode again to access the element being tested.
It's a real time-saver.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Development at a scorching pace*

**Edit**

**Execute**

```
Click on the button

IF YesNo(Yes,"Would you like a print
preview?") = Yes THEN
iPreview(iapZoomPage)
END
```
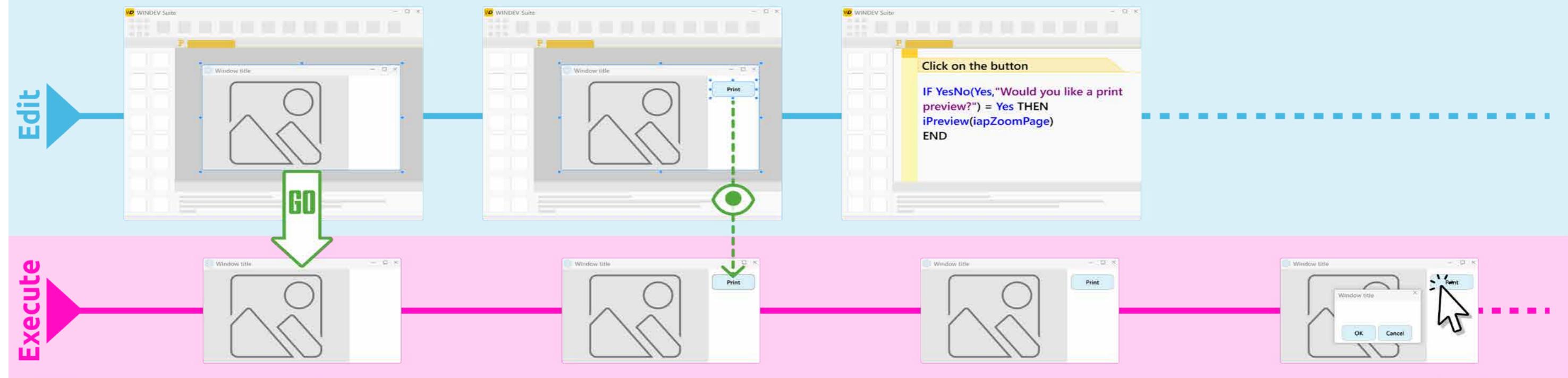
## RAD

### 267 New feature WD ~~WB WM~~ ●
**MVP RAD: REPORT GENERATION**

In version 2026, you can automatically create reports in MVP applications.
When you generate a Form or Table window, the corresponding report is automatically created.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*This is the new generation*

## GROUPWARE USER

### 268 New feature WD ~~WB WM~~
**GPWFINDUSER FUNCTION IN BAAS MODE**

WINDEV's User Groupware benefits from the new features common to all IDEs. See New feature 086.
In version 2026, the User Groupware allows you to use the `gpwFindUser` function in BaaS mode.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Make the most of the User Groupware*

## INSTALL



### 269 New feature WD ~~WB WM~~
**USE THE APP'S COLOR PALETTE IN THE INSTALLER**

In version 2026, the installation generation tool uses standard colors by default.
When the project is associated with a color palette, you can use this color palette for your application's installation wizard.
This lets the user discover the design language of your application from the very beginning.


*Installer with colors from the application's palette*

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Color right from the start*

### 270 New feature WD WB WM ●
**MSIX INSTALL GENERATION**



MSIX is a modern packaging format for Windows applications.
This format enables reliable installation, updating and uninstallation.
In this format, the application is encapsulated.
This format can be run in an AppContainer.
With WINDEV 2026, you can create MSIX packages.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Modern, secure package format*

### 271 New feature WD ~~WB WM~~ ●
**64-BIT MSI GENERATION**

You can now generate 64-bit MSI installation packages.
64-bit applications are installed by default in "Program Files".

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Additional installation package format*

### 272 New feature WD ~~WB WM~~ ●
**DISABLE USER ACCOUNT CONTROL**

Most installation packages use the User Account Control (UAC). security mode.
Sometimes, it may be necessary to disable this mechanism.
In version 2026, this can be done automatically, without requiring a user action.

---

*Instead, an update notification will appear in the application itself*

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Avoid blocking the installation process*

## WINDEV, WEBDEV AND WINDEV MOBILE PRIVATE STORE

### 273 New feature WD WB WM
**MOBILE APP FEATURES**

The Private Store provided as standard lets you host your Windows, iOS and Android applications and links to your websites in a store hosted and managed by your company.
In the case of mobile applications, the administrator can define a series of details including descriptions, keywords, etc.
In version 2026, these features are automatically updated on the application download page. This information is visible to the user.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Better organization of your applications*

## AAF: AUTOMATIC APPLICATION FEATURES

### 274 New feature WD ~~WB WM~~
**PIVOT TABLE CONTROL: SAVE SELECTIONS AND POSITIONS**

In version 2026, the AAFs available for Pivot Table controls have been improved.
Many AAFs in the Pivot Table control can be accessed via the context menu.
The "Remember size and groups" option has been updated. Now, the option also saves the order of headers defined by the end user.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Better UX*

## JAVA



### 275 New feature WD ~~WB WM~~
**NAMED PARAMETER SUPPORT**

In version 2026, named parameters are available in Java.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Practicality*

### New feature WD ~~WB WM~~
### 276 to 278 **MISCELLANEOUS**

- You can now update relationships between tables using the `HUpdateLink` function.
- The ++ operator can be used in expressions (example: RETURN N++).
- The -- operator can be used in expressions.

### New feature WD ~~WB WM~~
### 279 to 284 **6 NEW JAVA FUNCTIONS**

WLanguage offers 6 new functions for Java.

| | | | |
|---|---|---|---|
| dTextHeight | dTextWidth | InAIToolMode | HExecuteAsynchronousProcedure |
| HUpdateLink | ArrayContain | | |

## LINUX

### 285 New feature WD ~~WB WM~~
**GRID CONTROL**

In version 2026, the Grid control is also available for Linux.
See New feature 010.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Better cross-platform*

**New feature WD** WB WM

# 286 to 334

## 49 NEW FUNCTIONS
## 54 NEW CONSTANTS
## FOR LINUX

WLanguage offers 49 new functions and 54 new constants for Linux. To learn more, see the online help.

| | | | |
|---|---|---|---|
| BitcoinCoreConnectionCount | BitcoinCoreDateTimeLaunch | BitcoinCoreDiskSpaceUsed | BitcoinCoreBlockHash |
| CertificateExtractEnvelopedMessage | dDifferenceImage | VaultSecretContents | SafeRecoverContents |
| VaultUseContentsForTestMode | dDifferenceImage | dTextHeight | dTextWidth |
| EmailSubscribeToFolder | EmailUnsubscribeFromFolder | EmailExecuteCommand | IntegerToBuffer |
| WinListOpenChildWindow | WinListOpenWindow | GraphQLExecuteQuery | HExecuteAsynchronousProcedure |
| SemanticKeyList | HListReindexingHistory | SemanticListIndex | HSecurityPolicyUnlockAccount |
| HSecurityPolicySet | HSecurityPolicyGet | HSecurityPolicyCheck | HRecalculateEmbedding |
| HReindexAsynchronous | HStatCalculateAsynchronous | HTTPSendAsynchronous | HCheckIndexAsynchronous |
| HCheckMemoAsynchronous | AIEmbeddingNormalize | AIEmbeddingSetMean | AICreateEmbeddingSet |
| AICreateEmbedding | AICalculateSemanticSimilarity | VariantToJSON | PDFControlInfoXY |
| SemanticSearch | ShamirCreateShares | ShamirGeneratePrime | ShamirReconstructSecret |
| SSHConnectCommand | SSHDisconnectCommand | ArrayContain | TelemetrySendExceptionInfo |
| zipStartAddingFile | zipEndAddingFile | | |

# .NET

**New feature WD** WB WM

# 335

## SYNTAX HIGHLIGHTING FOR
## PROTOTYPES

When you use the F2 shortcut (Go to procedure) on a method that belongs to an assembly, the environment displays the list of methods available in that assembly.
Now, these prototypes benefit from syntax highlighting, making them easier to read and understand.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Better code readability*

# WLANGUAGE

**New feature WD WB WM**

# 336

## COMMON NEW FEATURES

Language remains the cornerstone of development.
In version 2026, WLanguage in WINDEV is further enriched.
It benefits from common new features and many useful improvements: parameter passing by value, Shamir's secret sharing, etc.
See New features 136 to 182.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Ever-increasing power in WLanguage*

**New feature WD WB WM**

# 337

## POSITIONING AT THE END OF
## A TABLE OR LOOPER CONTROL

Table controls can contain very high rows. In some cases, a single row can overflow the entire Table control.

By default, when the user sets the position on the last row, only the beginning of the row is shown.
In version 2026, the `TablePosition` function can show the end of the last row. Simply use the new `taPositionEnd` constant.
This function is also available for Looper controls.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026
*Better UX*

# 338

**New feature WD** WB WM

## LIST OF OPEN WINDOWS

In version 2026, you can programmatically get the list of open windows.
The `WinListOpenWindow` function lists all open windows.
The `WinListOpenChildWindow` function lists the child windows opened by a given window.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026
*Program your UI*

# 339

**New feature WD** WB WM

## REACTIVE PROCEDURES: DECLARE
## THE VARIABLE TO OBSERVE

Reactive procedure "react" automatically to any change in the value of a control or variable.
In version 2026, for specific cases, you can specify the variables or controls to be observed.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026
*Action / Reaction*

# 340

**New feature WD** WB WM

## DETERMINE IF THE USER IS
## THE ADMINISTRATOR OF THEIR
## COMPUTER

WLanguage offers a number of functions for obtaining information about the system running on the user's computer (`Sys` functions).
In version 2026, the new WLanguage `SysIsAdministrator` function lets you determine whether a user is an administrator on their computer.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026
*Essential information in one line of code*

# 341

**New feature WD** WB WM

## DETERMINE IF THE APPLICATION IS
## RUNNING ON A WINDOWS SERVER

In version 2026, the new `sysIsServer` constant of the `SysWindowsVersion` function indicates if the current operating system is server-specific.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026
*Practicality*

# 342

**New feature WD** WB WM

## PIVOT TABLE: DETERMINE THE
## SELECTED ELEMENT

In version 2026, the cell display and selection code has been updated.
The details about the selected element are now determined using a variable of type `pvtPosition`.
For example, you can determine which product is associated with the current selection and display its image and price in a tooltip.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026
*Precise selection, precise information*

# 343 to 406

**New feature WD** WB WM

## 64 NEW
## CONSTANTS

64 new WLanguage constants are available in version 2026:

| | | | |
|---|---|---|---|
| authClientSecretBasic | authMSEntraID | emailOptionForceMessageUTF8 | aafNewSpreadsheetComment |
| aafCopyAllMarkdown | winPositionCascading | winPositionCenteredInScreen | winPositionCenteredInParent |
| winPositionOffScreen | winPositionMaximized | winPositionRelativeToScreen | winPositionRelativeToParent |
| ftpSSLRequiredForControl | ftpSSLRequiredForAll | grNestedProportionalAreas | hAIModelPath |
| hSemanticKey | hLockedOutAccount | hConserveHistoryReindexing | hIndexCorrupt |
| hPasswordLow | hPasswordStrong | hPasswordMedium | hPasswordExpiration |
| hMemoCorrupt | hOptCheckIndex | hOptCheckMemo | hReindexingPending |
| HReindexInProgress | hReindexingError | hReindexingCompleted | hItemEmbeddingSet |
| hItemEmbedding | hVexSize | hVEX | aiProviderAnthropic |
| aiProviderGoogle | aiProviderOpenAI | aiProviderXAI | aiRoleAssistant |
| aiRoleError | aiRoleTool | aiRoleUser | iProtectionAssemble |
| iProtectionCopyAccessibility | iProtectionFillForm | useModeAddText | psdJSONUTF8Encoding |
| replicaIgnoreFilter | sysIsServer | gtCustomGrantType | taPositionEnd |
| trtAIChatBeforeRequest | trtAIChatRating | trtAIChatResponseInProgress | trtAIChatResponseError |
| trtAIChatResponseReceived | tsRowNoFilter | typAIChat | typeMimeCalendar |
| uriOpenMultiple | wlWindow | wlGraphQLQuery | zipExe64 |

**New feature WD** WB WM

# 407 to 418

## 12 NEW
## TYPES

12 new variable types are available in WLanguage:

| | | | |
|---|---|---|---|
| ftpConnection | hReindexingHistory | aiEmbeddingSet | aiConversationElement |
| aiModelInfoChat | aiEmbedding | SemanticIndex | WindowOpeningOptions |
| pdfProtection | sysNotificationProgressBar | xmlXAdESSignature | zipExeCreationParameter |

**New feature WD** WB WM

# 419 to 430

## 12 NEW
## PROPERTIES

12 new WLanguage properties are available for WINDEV.

| | | | |
|---|---|---|---|
| Tooltip | ControlColor | FocusColor | HnswEfConstruction |
| HnswM | AIConversation | AIModelInfo | AIInputValue |
| NbEmbeddingCoordinates | OpeningOptions | Open | OpeningParameters |

**New feature WD** WB WM

# 431 to 505

## 75 NEW WLANGUAGE
## FUNCTIONS
## FOR WINDEV

75 new WLanguage functions are available for WINDEV 2026.

| | |
|---|---|
| MapAddLayer | Adds a new tile to the map from a tile server URL (not Google Maps compatible) |
| MapDeleteLayer | Deletes a layer from the map. The layer is identified by its URL. |
| CertificateGenerateFromCSR | Creates a signed X.509 certificate from a Certificate Signing Request (CSR). |
| CertificateExtractEnvelopedMessage | Checks the validity of a PKCS7 wrapped signature and extracts the wrapped message. |
| CertificateSignMSIXPackage | Signs an MSIX package with a certificate. |
| StringWrap | Wraps a string with a start and an end string if necessary. |
| AIChatLoadConversation | Loads a conversation into an AI Chat control. |
| AIChatAsk | Launches a new request in the AI Chat control. |
| AIChatRetryRequest | Launches a new request in the AI Chat control, taking into account |

# TRANSFORM YOUR WINDEV APPLICATIONS
# INTO IOS & ANDROID APPS

## TRANSITION TO MOBILE DEVICES MADE EASIER

Transforming your existing WINDEV applications (or parts of applications) into iOS and Android applications is easier than ever before.
The integration of the WINDEV and WINDEV Mobile environments allows developers to easily share project elements.
The conversion wizard has been improved and is even more precise.

*Easily transform your WINDEV applications into mobile applications*

| Function | Description |
|---|---|
| | the content of the previous response. |
| AIChatSaveConversation | Saves the conversation in the AI Chat control. |
| AIChatStopRequest | Stops a request in progress in the AI Chat control. |
| VaultSecretContent | Checks for the secret contents of the vault, i.e. determines if an application is executed using the secret contents. |
| VaultGetContent | Returns the content of a secret string. |
| VaultUseContentsForTestMode | Forces the use of vault contents specifically included for testing purposes. |
| dTextHeight | Calculates text height in pixels. |
| dTextHTML | Draws text in HTML format. |
| dTextWidth | Calculates text width in pixels. |
| EmailSubscribeToFolder | Adds an existing folder to the list of subscribed folders. |
| EmailUnsubscribeFromFolder | Removes a folder from the list of subscribed folders. |
| EmailExecuteCommand | Sends an IMAP command to the mail server. |
| InAIToolMode | Returns True if the current execution is performed in an AI tool. |
| IntegerToBuffer | Converts an integer into a binary buffer. |
| WinListOpenChildWindow | List of child windows of a given window. |
| WinListOpenWindow | List of open windows in the application. |
| GraphQLExecuteQuery | Executes a GraphQL query |
| GridAddColumn | Adds a new column to a Grid control. |
| GridAddRow | Adds a new row to a Grid control. |
| GridInsertColumn | Inserts a new column in a Grid control. |
| GridInsertRow | Inserts a new line in a Grid control. |
| GridDeleteColumn | Deletes a column in a Grid control |
| GridDeleteRow | Deletes a row in a Grid control |
| HDescribeSemanticIndex | Defines a semantic index |
| HExecuteAsynchronousProcedure | Executes a stored procedure in asynchronous mode. |
| SemanticKeyList | Lists the semantic keys of a data file. |
| HListReindexingHistory | Lists the operations performed on current data files, over the last 24 hours, or on the last 1000 files. These operations include reindexing, recalculation of statistics, memo verification, index verification, etc. |
| SemanticListIndex | Returns the list of semantic indexes for a data file recognized by the HFSQL engine. |
| HSecurityPolicyUnlockAccount | Unblocks a user account blocked by too many unsuccessful login attempts. |
| HSecurityPolicySet | Sets the password security policy of an HFSQL server. |
| HSecurityPolicyGet | Gets the security policy of an HFSQL server. |
| HSecurityPolicyCheck | Checks that each user accounts complies with the password security policy associated with the HFSQL server. |
| HRecalculateEmbedding | Recalculates the embedding of a semantic index. |
| HReindexAsynchronous | Rebuilds the index of an HFSQL Client/Server data file (".NDX" file). This operation is asynchronous, i.e., it is performed on the server and does not block the client side. |
| HStatCalculateAsynchronous | Gets various statistics on the keys of an HFSQL Client/Server data file. |
| HTTPSendAsynchronous | Sends an HTTP request in asynchronous mode. |
| HCheckIndexAsynchronous | Checks that the data contained in the index file (.NDX file) correctly references the data contained in the HFSQL Client/Server data file (.FIC file). |

| Function | Description |
|---|---|
| HCheckMemoAsynchronous | Checks the structural integrity of memos in an HFSQL Client/Server data file. |
| AICalculateSemanticSimilarity | Calculates the semantic similarity score between several semantic vectors. |
| AIEmbeddingSetMean | Returns the average of a collection of embedding sets. |
| AICreateEmbeddingSet | Creates a set of embeddings of the same dimensions from a data set (e.g., a JSON file retrieved via an AI model). |
| AICreateEmbedding | Creates a semantic vector from its content representation. |
| AIListModel | Returns the list of AI models available for a given provider, separated by CR. |
| AIEmbeddingNormalize | Normalizes a semantic vector. |
| JWTCreateAssertion | Creates a JWT assertion. |
| PDFControlInfoXY | Returns the characteristics of an interactive control currently hovered over in a PDF Reader control. |
| FontLoad | Loads a custom font from a file (or buffer). |
| FontUnload | Unloads a font previously loaded with the FontLoad function. |
| SemanticSearch | Searches a semantic index. |
| ShamirCreateShares | Creates a set of shares for the same secret using Shamir's algorithm. |
| ShamirGeneratePrime | Generates a random prime number that can be used to create shares using Shamir's algorithm. This number is generated according to the secret. |
| ShamirReconstructSecret | Reconstructs a secret from a set of shares. |
| SSHConnectCommand | Keeps the SSH session active between several commands sent to an SSH server. |
| SSHDisconnectCommand | Stops the SSH session that was active to send a series of commands. |
| SysEncrypt | Encrypts data using Windows user credentials. |
| SysDecrypt | Decrypts data using Windows user credentials. This data has previously been encrypted using the SysEncrypt function. |
| SysIsAdministrator | Indicates whether the current user has administrator rights on the computer. |
| SysNotificationProgressBarUpdate | Updates the characteristics of a progress bar present in a system notification. |
| ArrayContain | Searches for an element in a WLanguage array. |
| TelemetrySendExceptionInfo | Sends exception information to telemetry if the exception has been handled in a "when exception" |
| wdbaasCreateUser | Creates a new user in the OAuth authentication server. |
| wdbaasUserInfo | Gets user information from the WEBDEV OAuth server. |
| wdbaasListUser | Returns the list of users of a WEBDEV OAuth authentication server. |
| wdbaasEditUser | Updates a user in the WEBDEV OAuth authentication server. |
| wdbaasDeleteUser | Removes a user from the WEBDEV OAuth authentication server. |
| zipStartAddingFile | Declares the start of the optimized addition of files to a CAB, ZIP, WDZ, 7z, TAR, gzip or TGZ (TAR.GZ) archive. |
| zipEndAddingFile | Declares the end of the optimized addition of a series of files to an archive. |

# WEBDEV 2026

COLLABORATIVE
POWERFUL
AGILE

New feature WD WB WM

**506** THE 227 COMMON NEW FEATURES OF VERSION 2026 ARE AVAILABLE IN WEBDEV

## WEBDEV 2026

gets the 227 common new features in version 2026, including the improved editors, conversational AI, security audit, improved code editor, the new Nested Proportional Areas chart, SCM improvements, new WLanguage and OOP features, and more.

In addition to all these new features, WEBDEV 2026 benefits from amazing new features specific to the Web. See the following pages to learn more.

# MULTIPLE BROWSER TABS IN WEBDEV

## "OPEN LINK IN NEW TAB"

### 507 New feature WD **WB** WM
**OPEN SEVERAL BROWSER TABS ON THE SAME SITE**

In Session mode, end users often need to open several pages simultaneously in different browser tabs, while keeping their session active.

Most modern browsers feature an "open in a new tab" option in their context menus.

Another common case is the need to open the same page several times (several instances), for example several customer files in parallel.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Multiple tabs made easy*

### 508 New feature WD **WB** WM
**NEW OPTION FOR PAGES**

Version 2026 introduces a new "Allow opening in new tabs" option. When this option is checked (default mode), the end user can open additional instances of the current page in different browser tabs.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Highly anticipated option*
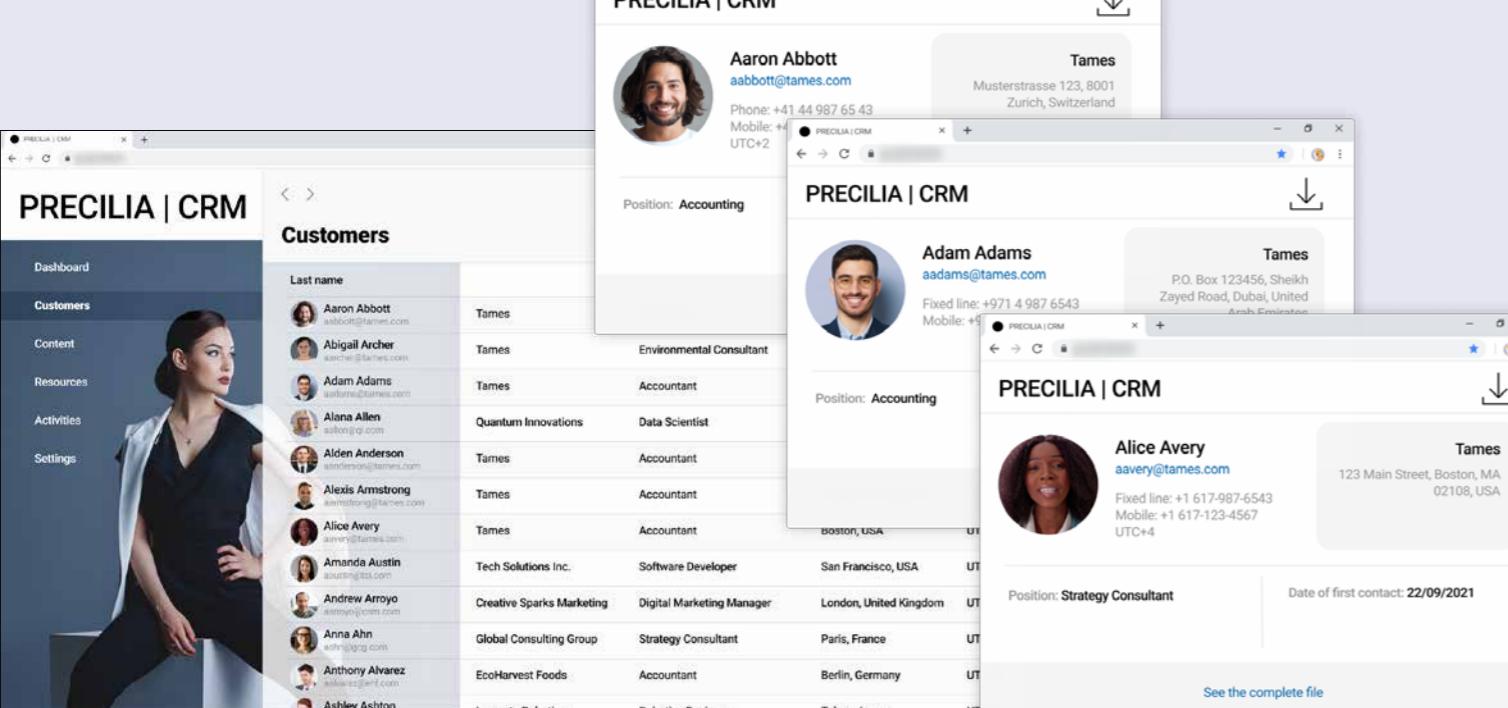
### 509 New feature WD **WB** WM
**PROGRAMMING**

Programming remains unchanged, no matter the number of tabs. Each page instance automatically maintains its own server-side context: control values, global variables, etc.

Additionally, enabling this option automatically generates an independent HFSQL context for each instance of the page, ensuring complete isolation of data between tabs.

This function is also available for third-party databases accessed via a native connector.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Both simple and powerful*

### 510 New feature WD **WB** WM
**OPEN IN A NEW BROWSER WINDOW**

In version 2026, users can open a WEBDEV page in a new window. The "Open in a new window" option is now available in the context menu.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Provide users with essential options*

---

# AUTOMATIC HTTP DATA CHUNKING: CLIENT-SIDE, SERVER-SIDE

## DATA STREAMING

### 511 New feature WD WB WM
**WHY DATA STREAMING?**

Most users are now familiar with the way conversational AI works in a browser. Once they have asked a question, the answer comes in "blocks" as the model generates them.

This presents obvious advantages, since users can read the response as data is received, without waiting for the entire response at once. WEBDEV 2026 makes it easy to implement this type of process on both the server side (sending) and the client side (reception).

Please note that the data can be sent via a WEBDEV server or a third-party server.

Data can also be received by a WEBDEV, WINDEV, WINDEV Mobile or third-party application.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*All the main features are supported*

### 512 New feature WD WB WM
**CHUNKED TRANSFER ENCODING**

In version 2026, it's easy to implement this data transfer mechanism. Each time a block of data is received in the application (site), a callback is automatically called with the data content as a parameter.

This mechanism can be used, for example, to receive updates from a server (SSE: Server-Sent Events).

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Smart data streaming mechanism*

### 513 New feature WD WB WM
**CLIENT SIDE: UX**

The client receives data in chunks as they are sent by the server. The application keeps running and can display the data progressively.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Seamless user experience*

### 514 New feature WD WB WM
**CLIENT SIDE: PROGRAMMING**

Simply create a variable of type `HTTPRequest`.

The `HTTPRequest` type has a new property in version 2026: `DataProcedure`.

All you need to do is specify the procedure to be called for each "chunk" (block of data received).

Code example:

```
MyRequest is httpRequest
MyRequest.DataProcedure = ProcData
INTERNAL PROCEDURE ProcData(bufChunk is
Buffer)
// bufChunk process for received data
END
```

In general, data is returned in the form of a "JSON Line". Once data is received, it can be displayed immediately. The clients receives the data as it is processed.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Data streaming made easy with WLanguage*

### 515 New feature WD WB WM
**SERVER SIDE: PROGRAMMING**

For an HTTP server to support data chunking, you must simply create a REST web service.

In the web service procedure, call the WLanguage `WebServiceSendChunk` function to return each data chunk.

The size of the data chunks can vary.

Chunk size is defined by the web service. It can be defined either according to the number of bytes or to the data retrieval time.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*WEB-DEV-makes-it-easy*

# PVT: PIVOT TABLE CONTROL

## BRING YOUR DATA TO LIFE

### 516 — New feature WD WB WM •
**PIVOT TABLE CONTROL: AN ASSET FOR DECISION-MAKERS**

The Pivot Table control dynamically displays cross-referenced data from different files in a database.
Example: Sales by product family, by product, by region, over time, with or without details.
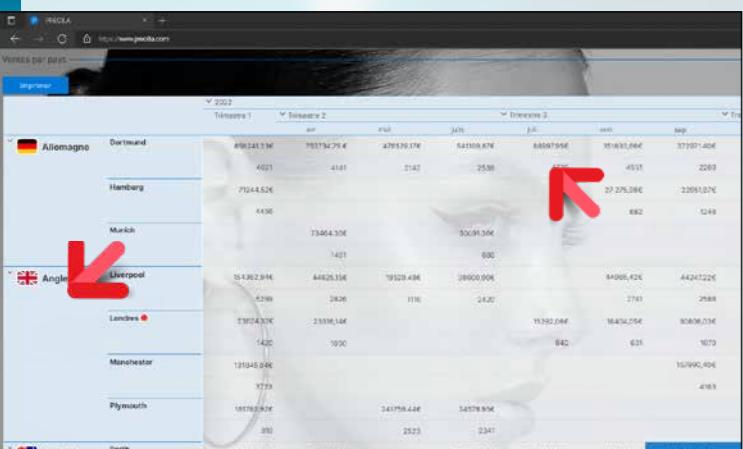
The Pivot Table control performs all the calculations.
All the data is dynamically calculated and displayed.
Note: This control is also known as a "ROLAP cube".

**Benefit of this new feature in version 2026:**
*Make the most of your data with one control*

### 517 — New feature WD WB WM •
**AUTOMATICALLY CREATED AND POPULATED**

Creating a Pivot Table control in WEBDEV 2026 is remarkably easy.
Simply answer a series of questions in the wizard to define the data to be displayed.
This control is also populated automatically, no code required!
The WEBDEV 2026 ROLAP engine automatically reads the data and performs the necessary calculations for all the possible levels of detail.
It automatically populates the row and column headers.

### 518 — New feature WD WB WM •
**USE**

End users can choose the desired level of detail. Rows and columns can be expanded and collapsed as required.
The displayed result can be exported to Excel, Word, PDF, etc., as with any other table in WEBDEV.
The Excel export functionality is widely used for simulations.

**Benefit of this new feature in version 2026:**
*Integrated AAFs*

### 519 — New feature WD WB WM •
**AUTOMATIC PERIOD COMPARISON**

The end user may ask to compare a given period to the same period of previous years.
This comparison is available in one of the context menu options.
For example, users can compare sales in October 2025 with sales in October of the previous two years.
Percentages and differences are calculated and displayed automatically.

**Benefit of this new feature in version 2026:**
*Yet another AAF*

### 520 — New feature WD WB WM •
**ASYNCHRONOUS DISPLAY (CALCULATION) MODE**

Pivot Table controls may have to display millions of elements.
Calculating this information can take some time.
In the code, data calculation can be launched using the WLanguage **PVTCalculateAllAsynchronous** function.
This function allows the browser to keep running all other processes for the duration of the calculation.
The Pivot Table control can be updated following the same method.
Simply use the WLanguage **PVTCalculateUpdateAsynchronous** function.
Note that it is possible to request a synchronous calculation, but it will block the browser while data is processed.

**Benefit of this new feature in version 2026:**
*A solution for every case*

**Benefit of this new feature in version 2026:**
*Simplicity*

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## NEW SMART CONTROLS

### 521 — New feature WD WB WM
**7 NEW SMART CONTROLS**

7 new Smart controls are available in WEBDEV 2026:
* Google review
* Social networks
* Hero section with date range search
* Combo Box Popup with filter
* Event Looper (New feature 243)
* Product Looper (New feature 242)
* Segmented Buttons (New feature 241)

**Benefit of this new feature in version 2026:**
*Smarter every day*

### 522 — New feature WD WB WM
**NEW SMART CONTROL: GOOGLE REVIEW**

*Reviews: 4,7/5*

The "Google Review" Smart control gets and displays the rating and number of reviews of a point of interest or business in real time.

**Benefit of this new feature in version 2026:**
*Essential data at a glance*

### 523 — New feature WD WB WM
**NEW SMART CONTROL: SOCIAL NETWORKS**

*Access to social networks*

The "Social Networks" Smart control contains links to a given profile on the most popular social networks.
Users can simply click the corresponding icon to be redirected to that profile.

**Benefit of this new feature in version 2026:**
*Social network profiles just one click away*

---

### 524 — New feature WD WB WM
**NEW SMART CONTROL: HERO SECTION WITH DATA RANGE SEARCH**
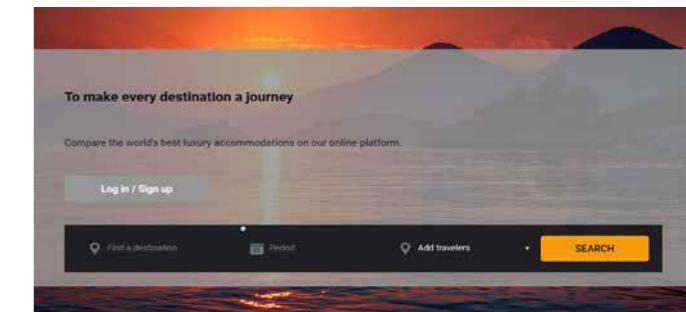
*Powerful search at the top of the page*

The "Hero Section with date range search" Smart control features a powerful search bar (e.g., destination, number of guests, date range selection, etc.).
"Hero" is a generic term used in web design. This term refers to the main, visually dominant area at the top of a web page.
This is often the first area users see when they open a website.

**Benefit of this new feature in version 2026:**
*All the essential features, right at the top*

### 525 — New feature WD WB WM
**NEW SMART CONTROL: COMBO POPUP WITH FILTER**
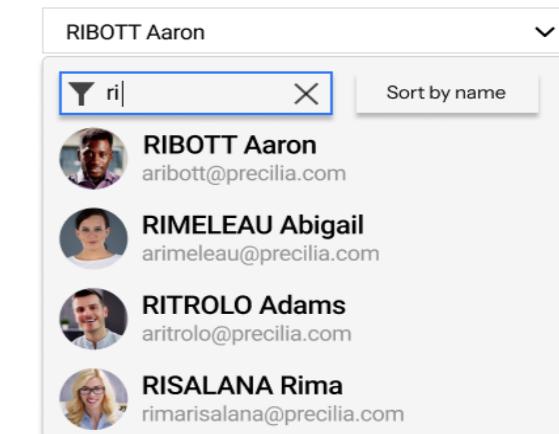
*Combo Box search*

The "Combo popup with filter" Smart control opens a popup page containing a search control.
This control allows users to filter the results displayed in the popup window.
A sorting functionality is also available.

**Benefit of this new feature in version 2026:**
*Filter and sort? Now that's a combo!*

## PAGE EDITOR

### 526 New feature WD WB WM
### REMOTE CSS: BOOTSTRAP, CDN

In version 2026, you can use style sheets located on a server different from the one hosting the website.
This makes it possible to use style libraries by pointing directly to them, without having to import them into the project.
This can improve performance, since these files are often already present in the user's browser cache.
This facilitates style updates, since you benefit directly from the latest versions of libraries without additional actions.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Better performance with CDN*

### 527 New feature WD WB WM
### IMPROVED MODIFIER

In version 2026, the Modifier pane includes the common new features. Editing page and control properties is now even easier.
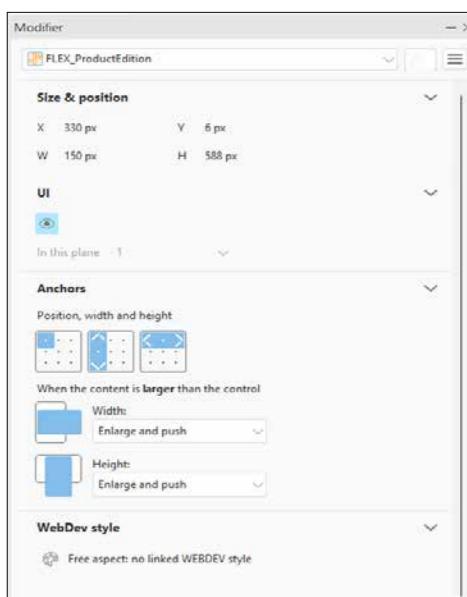


*Modifier pane of a Flexbox control*

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Useful information at a glance*

### 528 New feature WD WB WM
### STYLE SHEET DIFF

WEBDEV 2026 enables you to compare style sheets.
This makes it easier to see the changes made to any style sheet (previous changes or changes made by another team member, etc.).
BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Functionalities that make a real difference*

### 529 to 530 New feature WD WB WM
### MISCELLANEOUS

- Tailwind CSS can be used in external components.
- WEBDEV components can be protected from code injections using CSP. See New feature 665.

# NEW FEATURES FOR CONTROLS

### 531 New feature WD WB WM ●
### CUSTOMIZE APPOINTMENTS IN ORGANIZER CONTROLS
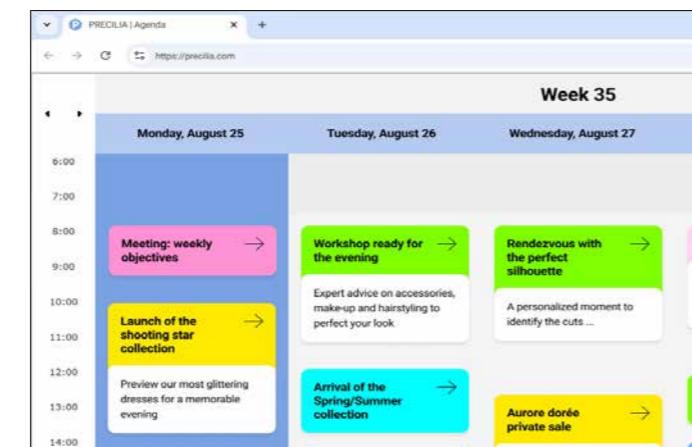


*Quickly identifiable appointments*

You can now customize appointments in Organizer controls using Internal Page controls.
This opens unlimited customization possibilities.
BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Infinite customization*

### 532 New feature WD WB WM
### AJAX LOOPER WITH VARIABLE NUMBER OF COLUMNS

It is now possible to create Looper controls in AJAX mode, while allowing a variable number of columns.
BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*A control that uses the full width of the screen*

### 533 New feature WD WB WM
### MISCELLANEOUS

- The `..Grayed` property can be used to gray out all the controls contained in a cell.

# INPUT MASKS IN BROWSER MODE

### 534 New feature WD WB WM
### INPUT MASKS IN BROWSER MODE

WEBDEV 2026 includes a series of exciting new features for input masks in Browser mode.
The new WLanguage `InputMask` type is introduced for this purpose.
BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Input masks available in browser mode*

### 535 New feature WD WB WM
### NEW WLANGUAGE TYPE: INPUTMASK

The new `InputMask` type is used to define the data input options in Edit controls.
Data can be formatted:
- on entry
- during input
- by assignment
- on exit.

For example, when entering a credit card number or an IBAN, the control can automatically add a space every 4 characters.



*IBAN formatting*

You can also apply a red background to the control if the value entered is incorrect, set a color according to the password strength, or format a date when the user leaves the control.
BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Multiple data formatting options*

### 536 to 554 New feature WD WB WM ●
### INPUT MASKS PRESET PROGRAMMATICALLY

A set of preset input masks is at your disposal.
These masks are available in the 7-tab window.
In version 2026, it is possible to assign input masks programmatically.

Each input mask has a corresponding WLanguage constant.

| | | | |
|---|---|---|---|
| maskAAlphaNum | maskAAlphaNumUpper | maskAddressIP | maskAddressIPv6 |
| maskAddressMAC | maskAlpha | maskAlphaUpper | maskAlphaNum |
| maskAlphaNumUpper | maskNone | maskBitcoin | maskZipCode |
| maskZipCodeGermany | maskZipCodeAustralia | maskZipCodeAustria | maskZipCodeBelgium |
| maskZipCodeBrazil | maskZipCodeCanada | maskZipCodeSpain | maskZipCodeGreece |
| maskZipCodeItaly | maskZipCodeNetherlands | maskZipCodePortugal | maskZipCodeSingapore |
| maskZipCodeSwitzerland | maskZipCodeUK | maskZipCodeUS | maskDateRelativeDuration |
| maskEmailDate | maskDateEmailUTC | maskDateInternet | maskDateInternetUTC |
| maskSystemDate | maskEmail | maskEmailMultiple | maskEmailRFC2822 |
| maskEmailRFC2822Multiple | maskFileNoFolder | maskSystemTime | maskPersonID_Australia |
| maskPersonID_Belgium | maskPersonID_Brazil | maskPersonID_Canada | maskPersonID_Spain |
| maskPersonID_Greece | maskPersonID_Italy | maskPersonID_Netherlands | maskPersonID_Singapore |
| maskPersonID_UK | maskPersonID_US | maskINSEE | maskINSEEKey |
| maskISBN10 | maskISBN13 | maskUpper | maskLower |
| maskSystemCurrency | maskRomanNumeral | maskSystemNumeral | maskFileName |
| maskNum | maskCardNumberAmericanExpress | maskCardNumberMasterCard | maskCardNumberVisa |
| maskBankAccountNumber | maskNumPlus | maskPatronymic | maskPatronymicUpper |
| maskFUpper | maskRIB | maskScientific | maskSIREN |
| maskSIRET | maskFileSize | maskPhone | maskPhoneBelgium |
| maskPhoneCanada | maskPhoneFrance | maskPhoneSwitzerland | maskUUID128 |
| maskUUID128WithBrace | maskUUID128Raw | maskUUID256 | |

For example, it is possible to dynamically change the phone input mask according to the selected country.



BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Effortlessly prevent data input errors*

# SEGMENTED BUTTON CONTROL IN WEBDEV

## 555
New feature WD WB WM
### THE SEGMENTED BUTTON CONTROL IS AVAILABLE IN WEBDEV

The Segmented Button control introduced in WINDEV version 2025 is now available in WEBDEV.

As a reminder, a Segmented Button control groups a series of ON/OFF buttons together within the same control.

This type of control is visually appealing and intuitive for end users:
- single or multiple selection,
- text or image for each option.

The associated code has also been simplified, making integration faster and more intuitive.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Modern and intuitive control for web users*

## 556
New feature WD WB WM
### SEGMENTED BUTTON CONTROL: FUNCTIONALITIES

The Segmented Button control offers a wide range of configurable parameters, including:
- Number of segments (or boxes)
- Content of each segment (box): text or image
- Single or multiple selection mode
- Anchoring and automatic width adjustment
- Optional separator between segments
- Separator style (lines, margins, etc.)
- Customizable borders for the control and for individual buttons

You can transform a Check Box control into a multi-selection Segmented Button control, or a Radio Button control into a single-selection Segmented Button control.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*One control, many possibilities*

## 557
New feature WD WB WM
### PROGRAMMING

One of the advantages of a Segmented Button control is that its programming is much simpler compared to a set of standard Radio Button or Check Box controls.

Here are some of the operations available in the code:
- get the state of a segment (checked/unchecked),
- gray out or hide a segment individually,
- dynamically modify the text of a segment or tooltip,
- add segments at runtime,
- easily manage multilingual labels.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Simplified programming*

# OPENSTREETMAP FOR THE WEB

# LAYOUTS

## 558
New feature WD WB WM •
### IMPROVED LAYOUT CREATION WINDOW

The window for creating page layouts has been reviewed and simplified.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Cleaner UI*

# CHART CONTROL

## 559
New feature WD WB WM
### NESTED PROPORTIONAL AREAS

The new Nested Proportional Areas chart type is available in WEBDEV.
See New feature 044.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*More data representation possibilities*

## 560
New feature WD WB WM
### MAP CONTROL: SAME FUNCTIONALITY ACROSS PLATFORMS

In WEBDEV, the Map control offers the same functionalities as in WINDEV or WINDEV Mobile.
In version 2026, the Map for control for WEBDEV also supports OpenStreetMap.
Many other formats are also available.
See New feature 727.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Choose the best mapping solution for your websites*

## 561
New feature WD WB WM
### MANIPULATE MAP CONTROLS IN BROWSER CODE

WEBDEV enables you to manipulate OpenStreetMap objects directly in the browser-side code. Simply use the `MapGetJSObject` function.
This function provides additional map settings, either with OpenStreetMap or with any other map format supported by the Map control.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Your websites, your maps*

*What's new in WINDEV 2026 WEBDEV 2026 WINDEV Mobile 2026*

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*What's new in WINDEV 2026 WEBDEV 2026 WINDEV Mobile 2026*

# SAAS FUNCTIONS FOR WEBSITES



## 562 | New feature WD WB WM
### NEW SAAS SITE ADMINISTRATOR WIDGET IN THE DASHBOARD

WEBDEV offers a SaaS mode for your websites.
Version 2026 introduces a useful new widget in the dashboard, which provides essential statistics:
- number of clients,
- number of services,
- number of pricing plans.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Statistics that matter*

# SINGLE-PAGE APPLICATION (SPA)
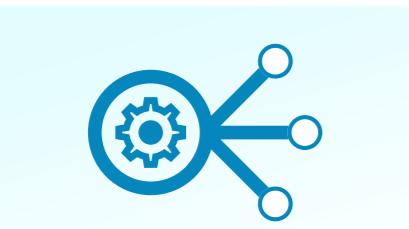


## 563 | New feature WD WB WM
### IMPROVEMENTS

All the new WEBDEV features available for browser-side programming are also available for SPA applications.
For example:
- Advanced input masks
- Pivot Table controls
- Data chunking
- List type, etc.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Even more power*

# SOCIAL NETWORKS, COMMUNICATION TOOLS

## 564 | New feature WD WB WM
### SOCIAL NETWORK PROFILES

The "Social Network Profile" Smart control gives access to profiles on various social networks.
See New feature 523.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*One control, direct links to multiple social networks*

# WLANGUAGE SERVER SIDE



## 565 | New feature WD WB WM
### ALL THE NEW WLANGUAGE FUNCTIONS IN VERSION 2026 ARE AVAILABLE IN WEBDEV

Server-side code in WEBDEV benefits from all the new WLanguage functions and features in version 2026.
See New features 136 to 182.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Easy cross-platform coding*

## 566 | New feature WD WB WM
### ADD OPTIONS TO RADIO BUTTON & CHECK BOX CONTROLS PROGRAMMATICALLY

The new `RadioButtonAdd`, `RadioButtonModify` and `RadioButtonDelete` functions allow you to directly manipulate the options of a Radio Button control.
Similarly, the `CheckBoxAdd`, `CheckBoxModify`, `CheckBoxDelete` functions are available for the options of Check Box controls.
For example, you can dynamically define the different options of a questionnaire.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*All you need is the right function*

## 567 | New feature WD WB WM
### DOWNLOAD HFSQL MEMOS FASTER

In version 2026, WLanguage is enriched with the `MemoView` and `MemoDownload` functions.
In previous versions, the memo had to be downloaded to a buffer in memory (or a file on disk) and then sent to the browser using `StringDisplay` (or `FileDownload`).
In version 2026, the HFSQL memo is transmitted continuously, block by block. This progressive mode reduces memory consumption, speeds up download and reduces total download time on the user side.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Smoother downloads*

## 568 | New feature WD WB WM
### MISCELLANEOUS

The `..FontStrikethrough` property is supported in server code.

## New feature WD WB WM
## 569 to 659 | SERVER CODE: 91 NEW WLANGUAGE FUNCTIONS

WLanguage is enriched with 91 new functions in Server code, as well as 47 new constants (see online help for a list).

| | | | |
|---|---|---|---|
| BitcoinCoreConnectionCount | BitcoinCoreDateTimeLastLaunched | BitcoinCoreDiskSpaceUsed | BitcoinCoreBlockHash |
| SegmentedButtonAdd | SegmentedButtonInsert | SegmentedButtonDelete | SegmentedButtonDeleteAll |
| MapAddLayer | MapDeleteLayer | CertificateExtractEnvelopedMessage | StringWrap |
| VaultSecretContents | SafeRecoverContents | VaultUseContentsForTestMode | dDifferenceImage |
| dTextHeight | dTextWidth | EmailSubscribeToFolder | EmailUnsubscribeFromFolder |
| EmailExecuteCommand | IntegerToBuffer | FTPDirExist | GraphQLExecuteQuery |
| HExecuteAsynchronousProcedure | SemanticKeyList | HListReindexingHistory | SemanticListIndex |
| HSecurityPolicyUnlockAccount | HSecurityPolicyGet | HSecurityPolicySet | HSecurityPolicyCheck |
| HRecalculateEmbedding | HReindexAsynchronous | HStatCalculateAsynchronous | HTTPSendAsynchronous |
| HCheckIndexAsynchronous | HCheckMemoAsynchronous | AICalculateSemanticSimilarity | AIEmbeddingSetMean |
| AICreateEmbeddingSet | AICreateEmbedding | CheckBoxAdd | CheckBoxInsert |
| CheckBoxCount | CheckBoxDelete | JWTCreateAssertion | PDFControlInfoXY |
| FontLoad | FontUnload | SemanticSearch | RadioButtonAdd |
| RadioButtonInsert | RadioButtonCount | RadioButtonDelete | ShamirCreateShares |
| ShamirGeneratePrime | ShamirReconstructSecret | SSHConnectCommand | SSHDisconnectCommand |
| SysEncrypt | SysDecrypt | SysIsAdministrator | ArrayContain |
| PVTAxisXY | PVTCalculateUpdate | PVTCalculateUpdateAsynchronous | PVTCalculateAll |
| PVTCalculateAllAsynchronous | PVTLoad | PVTCompareDateRange | PVTExpand |
| PVTExpandAll | PVTCollapse | PVTCollapseAll | PVTFilter |
| PVTListPositionHeader | PVTSave | PVTSelect | PVTSelectCount |
| PVTHeaderValue | PVTToExcel | TelemetrySendExceptionInfo | wdbaasCreateUser |
| wdbaasUserInfo | wdbaasListUser | wdbaasEditUser | wdbaasDeleteUser |
| WebServiceSendChunk | zipStartAddingFile | zipEndAddingFile | |

# AWP (STATELESS)

## 660 | New feature WD WB WM
### FASTER, NON-BLOCKING AWP MODE

Active WEBDEV Pages no longer block the AWP session.
This allows for parallel page calls, thus improving performance.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Even better AWP mode*

# AJAX



## 661 | New feature WD WB WM •
### AJAX: IGNORE PREVIOUS RESPONSES

The same procedure can be called several times in quick succession. The results of one procedure do not necessarily arrive until the next procedure is called.
The new `last call` attribute ignores previous responses that have not been received at the time of the last request.
This ensures that only the most recent response is taken into account, and avoids displaying or processing wrong data.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Process only the correct response*

## 662 | New feature WD WB WM
### NATIVE NUMERIC HANDLING IN AJAX CALLS BY DIRECT PROCEDURE CALL

An Ajax procedure can be called natively in WLanguage.
Parameters of type `numeric` are now taken into account natively.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*More readable code*

# JSON



## 663 | New feature WD WB WM
### SERIALIZING JSON TO BINARY

Binary serialization of JSON types now possible.
This new feature is particularly useful when a class has JSON members and it is necessary to serialize the class in binary format.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*JSON becomes binary*

## 664 | New feature WD WB WM
### JSON: UTF-8 ENCODING

A new parameter of the `JSONToString` function now allows you to encode accented characters using UTF-8.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Easier conversion*

# JAVASCRIPT SECURITY
## CSP: NO CODE INJECTIONS

### 665  New feature WD WB WM
**INJECTING JAVASCRIPT INTO A WEB PAGE**

WEBDEV allows you to develop web applications in WLanguage. When a site is generated, the WLanguage code intended for the UI is automatically converted to JavaScript so that it can be interpreted by the end user's browser.

Since JavaScript is executed on the client side, it is technically possible to inject JavaScript code into a web page, even one generated by WEBDEV. All web browsers allow scripts to be modified or added dynamically to an HTML page.

This possibility, while sometimes useful for debugging or automation, also presents security risks (notably XSS attacks) and must be used with care.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Safety first*

### 666  New feature WD WB WM
**PROTECTION AGAINST JAVASCRIPT INJECTIONS**

HTML features a security mechanism designed to limit the risk of JavaScript code injection. This mechanism is known as Content Security Policy (CSP).

The CSP policy allows you to define, via a "meta" tag in the HTML, the authorized sources for loading and executing scripts, images, etc.

It is an effective defense against XSS-type attacks.

In version 2026, WEBDEV offers a project-level option for automatically activating CSP throughout the site.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Be safe with CSP*

### 667  New feature WD WB WM
**WEBDEV GENERATES THE REQUIRED JAVASCRIPT CODE**

When CSP is enabled, the code generated by WEBDEV is modified so as to no longer allow external modifications of JavaScript code. These changes include:
- appropriate "meta" tag in the pages served to the browser
- explicit script declaration
- script tags validation using a key (CRC)
- Inline scripts no longer allowed.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Close the door on malicious injections*

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## LINUX

### 668  New feature WD WB WM
**IMPROVED PERFORMANCE FOR WEB SERVICE CALLS: SESSION RECYCLING**

Web service session recycling is now available for Linux. This significantly improves the performance of web service calls.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Better performance across platforms*

### New feature WD WB WM
### 669 to 670  **86 NEW WLANGUAGE FUNCTIONS ON LINUX**

86 new functions are available on Linux:

| | | | |
|---|---|---|---|
| BitcoinCoreConnectionCount | BitcoinCoreDateTimeLastLaunched | BitcoinCoreDiskSpaceUsed | BitcoinCoreBlockHash |
| SegmentedButtonAdd | SegmentedButtonInsert | SegmentedButtonDelete | SegmentedButtonDeleteAll |
| MapAddLayer | MapDeleteLayer | CertificateExtractEnvelopedMessage | StringWrap |
| VaultSecretContents | SafeRecoverContents | VaultUseContentsForTestMode | dDifferenceImage |
| dTextHeight | dTextWidth | EmailSubscribeToFolder | EmailUnsubscribeFromFolder |
| EmailExecuteCommand | IntegerToBuffer | FTPDirExist | GraphQLExecuteQuery |
| HExecuteAsynchronousProcedure | SemanticKeyList | HListReindexingHistory | SemanticListIndex |
| HSecurityPolicyUnlockAccount | HSecurityPolicySet | HSecurityPolicyGet | HSecurityPolicyCheck |
| HRecalculateEmbedding | HReindexAsynchronous | HStatCalculateAsynchronous | HTTPSendAsynchronous |
| HCheckIndexAsynchronous | HCheckMemoAsynchronous | AICalculateSemanticSimilarity | AEmbeddingSetMean |
| AICreateEmbeddingSet | AICreateEmbedding | CheckBoxAdd | CheckBoxInsert |
| CheckBoxCount | CheckBoxDelete | JWTCreateAssertion | PDFControlInfoXY |
| SemanticSearch | RadioButtonAdd | RadioButtonInsert | RadioButtonCount |
| RadioButtonDelete | ShamirCreateShares | ShamirGeneratePrime | ShamirReconstructSecret |
| SSHConnectCommand | SSHDisconnectCommand | ArrayContain | PVTAxisXY |
| PVTCalculateUpdate | PVTCalculateUpdateAsynchronous | PVTCalculateAll | PVTCalculateAllAsynchronous |
| PVTLoad | PVTCompareDateRange | PVTExpand | PVTExpandAll |
| PVTCollapse | PVTCollapseAll | PVTFilter | PVTListPositionHeader |
| PVTSave | PVTSelect | PVTSelectCount | PVTHeaderValue |
| PVTToExcel | TelemetrySendExceptionInfo | wdbaasCreateUser | wdbaasUserInfo |
| wdbaasListUser | wdbaasEditUser | wdbaasDeleteUser | WebServiceSendChunk |
| zipStartAddingFile | zipEndAddingFile | | |

## PHP

### 671  New feature WD WB WM
**PHP: FASTER PAGE GENERATION**

The generation of PHP pages in WEBDEV projects benefits from a major optimization. This process is now run in parallel with other tasks.
Page generation is therefore much faster.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*The faster, the better*

### 672  New feature WD WB WM
**PHP: MAP MARKERS WITH CUSTOM POPUPS**

PHP generation now supports custom map marker popups. This is achieved using a WEBDEV page.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*More possibilities*

### 673  New feature WD WB WM
**4 NEW WLANGUAGE FUNCTIONS FOR PHP**

4 new functions are available in PHP:

| | | | |
|---|---|---|---|
| SegmentedButtonAdd | SegmentedButtonInsert | SegmentedButtonDelete | SegmentedButtonDeleteAll |

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Greater interoperability*

## WEB SERVICES

### 674  New feature WD WB WM
**NEW WEB SERVICE FEATURES AVAILABLE IN WEBDEV**

WEBDEV version 2026 takes advantage of all the new features for web services:
- GraphQL
- SOAP web services including multiple services
- Data chunking
- OpenAPI: Array and inheritance support
See New features 144, 213, 214 and 215.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Modern, powerful web services*

## ADMINISTRATION

### 675  New feature WD WB WM
**WEB ADMINISTRATOR**

The web administrator now provides an overview of a given account's sites and web services.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Account administration made easy*

## APPLICATION SERVER

### 676 New feature WD WB WM
**SECURE SESSION COOKIE**

Secure session cookies are now supported by default.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Always more safety*

### 677 New feature WD WB WM
**ACTIVATE SERVICES ON THE GO**

WEBDEV Application Server services (OAuth, Store, User Groupware, etc.) can now be activated on a server in use.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Always available*

### 678 New feature WD WB WM
**.NET ASSEMBLY VERSION USED IN A SITE**

Now, you can indicate the framework version to be used in a web site that uses a .NET assembly.
The WEBDEV Application Server will automatically load this version when running the site.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*More reliable installations*

### 679 New feature WD WB WM
**MISCELLANEOUS**

The "Forbid access to AWP context identifiers from JavaScript" option is no longer available, as it has become unnecessary.

## WEBDEV CLUSTER

### 680 New feature WD WB WM •
**DEPLOYMENT TO A CLUSTER**

When deploying a WEBDEV site TO a WEBDEV Application Server cluster, a notification is sent once all cluster nodes have been updated.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Useful notifications*
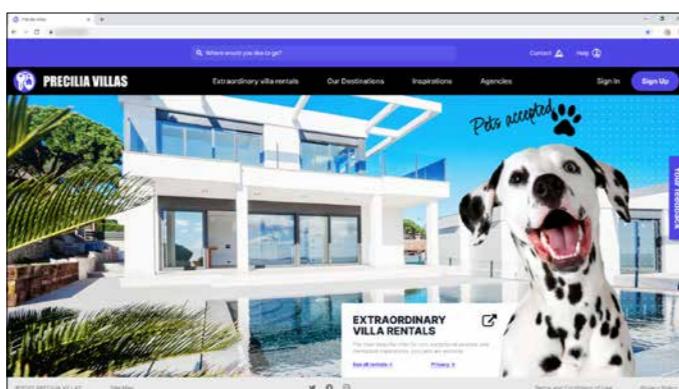
## DOCKER DEPLOYMENT



### 681 New feature WD WB WM
**WEB SERVICE OPTIMIZATION**

Version 2026 supports web service session recycling. This avoids reloading the framework, as well as re-running the project's initialization code.
The database connection is no longer systematically recreated, which improves web service response time.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Better performance across platforms*

## DEPLOYMENT OF YOUR SITES

### 682 New feature WD WB WM •
**VIEW LOG FILE WHEN DEPLOYMENT FAILS**

If a deployment process fails, a log file is automatically created. In version 2026, you can directly open and view this log file.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Essential information, when you need it*

### 683 New feature WD WB WM •
**MISCELLANEOUS**

- Additional deployment information: date, time, version number
- In the list of files to be deployed, a column indicates the size of each file
- Custom deployment parameters are preserved when the wizard is closed, even if the deployment process has not been completed.



---

# NEW WLANGUAGE FEATURES IN BROWSER CODE

**WL**

## BROWSER WLANGUAGE

### 684 New feature WD WB WM •
**ARRAYS: 5 NEW FUNCTIONS**

Version 2026 introduces 5 new functions for manipulating arrays in Browser mode.
These functions can be used to perform the most common operations on arrays: union, intersection, etc.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Navigate your data*

### 685 New feature WD WB WM
**15 WLANGUAGE FUNCTIONS FOR ORGANIZER CONTROLS**

In version 2026, the WLanguage **Organizer** functions are available in browser code.
This makes it possible to process Organizer controls more quickly without leaving the browser.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Better integration*

### 686 New feature WD WB WM
**INPUTMASK TYPE**

The WLanguage **InputMask** type allows you to implement input masks in your pages. In version 2026, this variable type is available in Browser code. See New feature 534.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Input masks for the web*

### 687 New feature WD WB WM
**TAX IDENTIFICATION NUMBER**

The tax identification number (TIN) is specific to each country, and uses a specific format.
WEBDEV 2026 automatically checks the format of this number to match the standards set by different countries, including France, Belgium, Switzerland, Canada and many others.
This verification ensures the reliability of data as soon as it is entered.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Automatic input verification*

New feature WD WB WM •

### 688 to 689 MISCELLANEOUS

- The **List** type is available, and provides 7 new WLanguage functions: Add, Insert, etc.
- The **..FontStrikethrough** property is now available in browser code.

New feature WD WB WM

### 690 to 725 36 NEW WLANGUAGE BROWSER FUNCTIONS

In version 2026, 36 new functions are available in browser code.

| | | | |
|---|---|---|---|
| OrganizerDisplay | OrganizerDisplayPreviousPeriod | OrganizerDisplayNextPeriod | OrganizerAddAppointment |
| OrganizerChangeMode | OrganizerBackgroundColor | OrganizerTimeDisplayed | OrganizerListAppointment |
| OrganizerMode | OrganizerPosition | OrganizerSelectMinus | OrganizerSelectPlus |
| OrganizerDeleteAppointment | OrganizerDeleteAll | OrganizerToiCalendar | Germany.CheckTaxNumber |
| Belgium.CheckTaxNumber | Brazil.CheckTaxNumber | Canada.CheckTaxNumber | MapAddLayer |
| MapDeleteLayer | IntegerToBuffer | Spain.CheckTaxNumber | UnitedStates.CheckTaxNumber |
| France.CheckTaxNumber | Italy.CheckTaxNumber | JSONValid | ListInfo |
| PageParameter | Switzerland.CheckTaxNumber | ArrayContain | ArrayDistinct |
| ArrayIntersect | ArrayUnion | ArrayUnionAll | TraceBuild |

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*More functions available in Browser code*

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YOU CHOOSE SECURITY.**

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- REST and SOAP web services
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- Private Store
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- Replicated HFSQL data.

### WEBDEV CLUSTER

A pre-configured, ready-to-use platform for
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With WEBDEV Cluster, you get a scalable
infrastructure that adapts to your needs,
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## ADVANTAGES OF PCSCLOUD PLATFORMS

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You benefit from a secure
network infrastructure (DDos,
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automatic security updates.

### Scalability
You can quickly scale your
platforms to meet peak demand.

### Availability
Your platforms are constantly
monitored by our team to en-
sure high availability of your
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### License management
No need to worry about licenses
(OS, WEBDEV Application
Server, etc.).
Everything is included in a
single plan.

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One-click backup: Daily backup option
to save all your data on
an independent storage space.

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With PCSCloud, you only
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See our pricing on:
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### Administration interface
You have a complete, user-friendly administration
interface for managing your platforms (activation/
deactivation, IP filter management, version
updates, SSL certificates, etc.)



# WINDEV Mobile 2026

## COLLABORATIVE POWERFUL AGILE

**726** New feature WD WB WM

**THE 227 COMMON NEW
FEATURES OF VERSION 2026
ARE AVAILABLE IN WINDEV
MOBILE**

## WINDEV Mobile 2026

gets the 227 common new features of version 2026,
including the improved editors, conversational AI, security
audit, code editor improvements, new Nested Proportional
Areas chart, SCM improvements, new WLanguage and OOP
features, etc.

WINDEV Mobile 2026 also boasts many new features
specific to mobile development.
Learn more in the following pages.

# OPENSTREETMAP
## INTEGRATE MAPS
## WITHOUT GOOGLE MAPS

### 727 New feature WD WB WM
### GOOGLE MAPS ALTERNATIVE

Google Maps is an extremely powerful and popular mapping platform.
However, it can become a paid service, depending on how you use it.
This is one of the reasons why some developers look for other solutions.
OpenStreetMap is the best-known alternative.
**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Functionality at no cost*

### 728 New feature WD WB WM
### FREE MAPS

At the time of writing this document, OpenStreetMap is a free service.
For small-scale use, you can also use free servers.
For more intensive use, however, you'll need to host the maps yourself, or subscribe to a hosting service.
Please refer to the OpenStreetMap Terms of Use to learn more.
**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Mapping solution at a fair cost*

### 729 New feature WD WB WM
### MAP CONTROL: AVAILABLE OPTIONS

OpenStreetMap can be used with WINDEV, WEBDEV, and WINDEV Mobile (for Android applications).
You can easily choose the type of map in the 7-tab window of the control.
Please note that OpenStreetMap and Google Maps offers different functionalities.
Both solutions support gestures (zoom, move, etc.), and allow users to draw routes, shapes, points of interest, etc.
However, some automatic features are not available, in particular route planning and marker clusters.
See the online documentation.

Reminder: For iPhone and iPad, Apple Maps is the preferred solution.
**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Choose the best mapping platform according to your needs*

### 730 New feature WD WB WM
### IGN MAPS, SHOM, MAPBOX, AND MORE

In version 2026, the Map control also supports many other map formats:
- IGN
- SHOM
- BRGM
- RGE
- GeoHazards
- ODRE
- Mapbox
- ESRI
- NASA / USGS
- Copernicus / Sentinel
- Natural Earth

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*One control, many possibilities*

### 731 New feature WD WB WM
### USE MULTIPLE LAYERS ON THE SAME MAP

The Map control now supports layers.
This makes it possible to overlap different maps on the screen.
**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Advanced map view possibilities*

---

## NEW CONTROLS

WINDEV Mobile 2026 offers new controls, as well as improvements for existing controls, to create even better UIs.

### 732 New feature WD WB WM
### NEW GRID CONTROL

The new Grid control, combined with the Flexbox control, allow for countless layout possibilities.
See New feature 010.
**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*More flexible UI*

### 733 New feature WD WB WM
### MAP CONTROL: OPENSTREETMAP & MORE

The Map control now supports various Google Maps alternatives: OpenStreetMap, IGN, Mapbox, etc.
See New feature 727.
**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Choose the best option for your needs*

### 734 New feature WD WB WM
### CIRCULAR PROGRESS BAR CONTROL

WINDEV Mobile's Progress Bar control has been completely overhauled in version 2026.
Now, you can adjust a number of settings:
- start and end angles
- with or without scale
- rounded progress bar ends
- colors, gradients (with or without palettes)
- inside diameter

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*One control, many possibilities*

### 735 New feature WD WB WM
### CUSTOMIZE EXPANDED AREA OF COMBO BOX CONTROLS

In version 2026, the Combo Box control has been updated and can be fully customized. You can now adjust all the settings of the expanded area.
See New feature 738.
**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Adjust every detail of your app's UI*

## NEW SMART CONTROL FOR WINDEV MOBILE 2026

### 736 New feature WD WB WM •
### 4 NEW SMART CONTROLS: SEGMENTED BUTTONS, PRODUCT LOOPER, EVENT LOOPER & TOKEN INPUT WITH SUGGESTIONS

The Product and Event Looper controls are adapted to mobile devices.
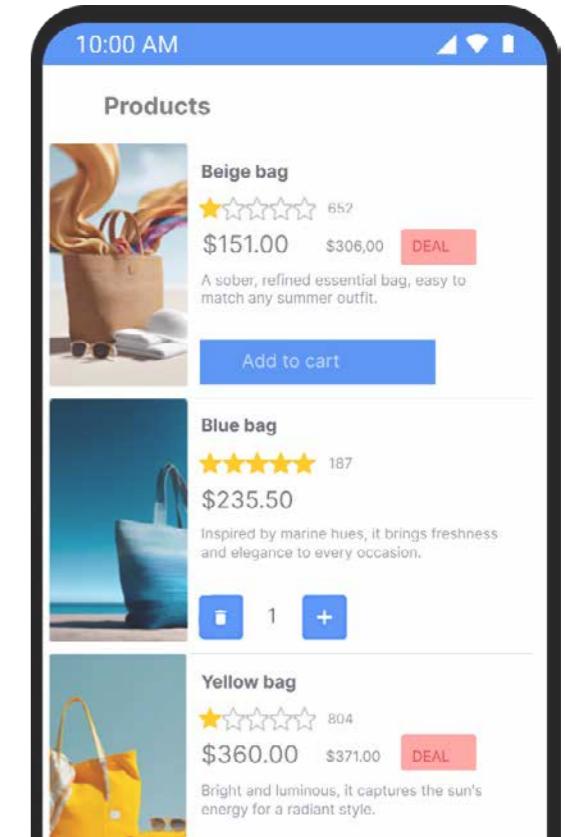
**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Powerful control across platforms*

### 737 New feature WD WB WM
### SMART CONTROL: TOKEN INPUT WITH SUGGESTIONS

The "Token input with suggestions" Smart control enables multiple input using tokens.
Input suggestions appear in a bottom sliding window.
**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Improve UX with a single control*

# COMBO BOXES THAT POP!



## 738 — New feature WD WB WM — FEATURE-RICH COMBO BOXES

In WINDEV Mobile 2026, Combo Box controls can display their options in a more advanced and user-friendly layout than a simple list.
Simply use the new Combo Box control with an integrated bottom sliding window.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*One control to revamp your UI*

## 739 — New feature WD WB WM — HOW IT WORKS

This new Combo Box mechanism uses a bottom sliding window containing an Internal Window control.
This Internal Window is fully customizable.
As any other bottom sliding window, it appears from the bottom of the screen.

The Internal Window uses the height defined in edit mode, but automatically adapts to the screen width.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Full customization*

## 740 — New feature WD WB WM — PROGRAMMING

The Combo Box control and the Internal Window exchange data using:
- the `MyPopupControl` keyword
- the `..ReturnedValue` property of the Internal Window.

`MyPopupControl` retrieves the properties and the value contained in the Combo Box control.
When the Internal Window is closed, the Combo Box automatically retrieves the value assigned to `..ReturnedValue` in the Internal Window.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Effortless synchronization*

---

# TRACE WINDOW ON MOBILE
## TRACE YOUR CODE DIRECTLY ON THE DEVICE

## 741 — New feature WD WB WM — TRACE FOR DEBUGGING

In WINDEV Mobile, you can debug your applications directly on mobile devices.
Sometimes, it may be useful to display a trace window. Common cases include testing GPS functionalities, apps in production, etc.
WINDEV Mobile 2026 now allows displaying the trace window directly on the mobile device, whether running iOS or Android.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Real device, real data*

## 742 — New feature WD WB WM — TRACE WINDOW: NEW PLATFORM, SAME PROGRAMMING

The WLanguage `Trace` function opens the trace window.
It is displayed in a floating window positioned in front of all other windows.
Its size and position are preserved.
This trace window features a Close icon at the top right.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Don't change your habits*
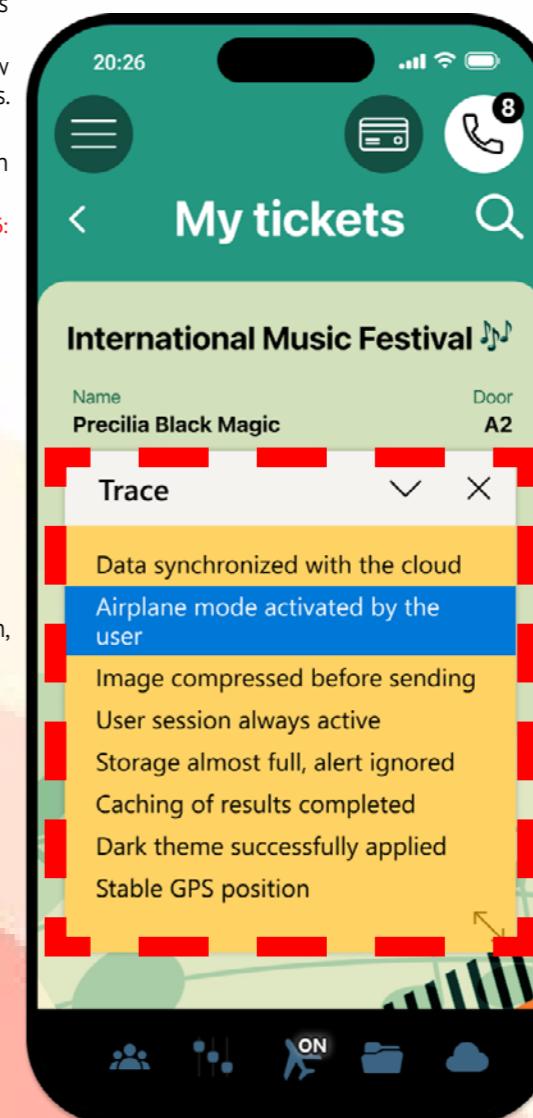
## 743 — New feature WD WB WM — EASY TO USE

The trace window can be:
- resized
- collapsed
- moved
- its content can be copied/pasted.

Given the small size of a phone screen, these features are very useful.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Adapted to mobile devices*

## 744 — New feature WD WB WM — USEFUL FEATURES

- Movable by tapping and holding the title bar
- Touch-enabled sizing handle at the bottom right
- Text pinch zoom
- Close button
- Collapse/Expand button
- Automatic line wrap
- Ability to show or hide control characters
- Line selection
- Context menu:
  - Copy
  - Copy all
  - Clear trace
  - Show/hide control characters
    - Persistent settings:
    - Size
    - Position
    - Collapsed/expanded state
    - Text size
- Control characters.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Everything you need to trace your app*

## 745 — New feature WD WB WM — MISCELLANEOUS

The trace can be displayed on screen, but can also be saved to a file.
This allows you to view and analyze this data at any time.

**BENEFIT OF THIS NEW FEATURE IN VERSION 2026:**
*Leave a trace, when you need it*

# WINDEV MOBILE ENVIRONMENT

## 746 New feature WD WB WM
### COMMON NEW FEATURES

The WINDEV Mobile environment benefits from the common new features of version 2026 (see New features 001 to 227).
Some of the main features include the improved Modifier pane and the palette editor.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*A complete environment*



# OTHER COMMON NEW FEATURES FOR IOS/ANDROID
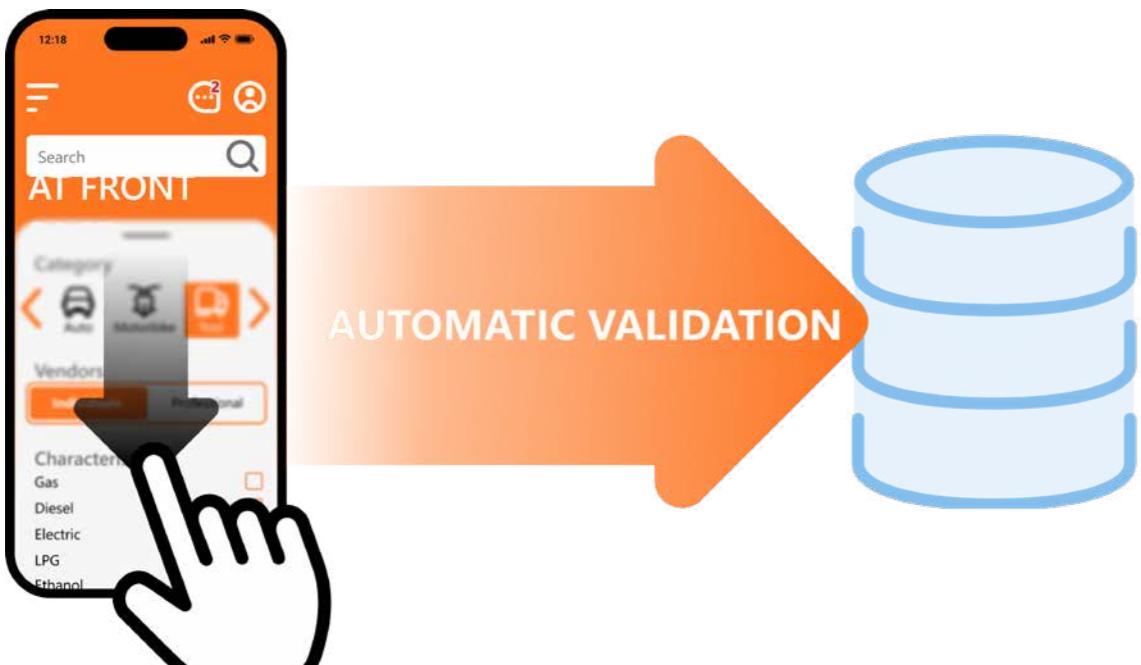


## 747 New feature WD WB WM •
### NAVIGATION BAR: SHOW, HIDE AND CHANGE BUTTONS PROGRAMMATICALLY

WINDEV Mobile 2026 allows you to programmatically change the images of navigation bar buttons.
You can also choose to show or hide these buttons.
Simply use the `..Image` and `..Visible` properties.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Navigation bars that match your apps*

## 748 New feature WD WB WM •
### PASS PARAMETERS TO BOTTOM SLIDING WINDOWS

Generally, sliding windows should be opened with initial data, for example: a customer's name, values, etc.
The new `..OpeningParameters` property makes it possible to pass parameters to a bottom sliding window.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*An ideal solution*

## 749 New feature WD WB WM
### CONFIRM CHANGES AUTOMATICALLY WHEN THE BOTTOM SLIDING WINDOW IS COLLAPSED

In version 2026, it is possible to retrieve values entered or modified in a bottom sliding window when it is collapsed.
Simply specify a callback procedure that will be called automatically when the user collapses the window.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Seamless UX*

# GRID POSITIONING
## ADAPTIVE LAYOUT
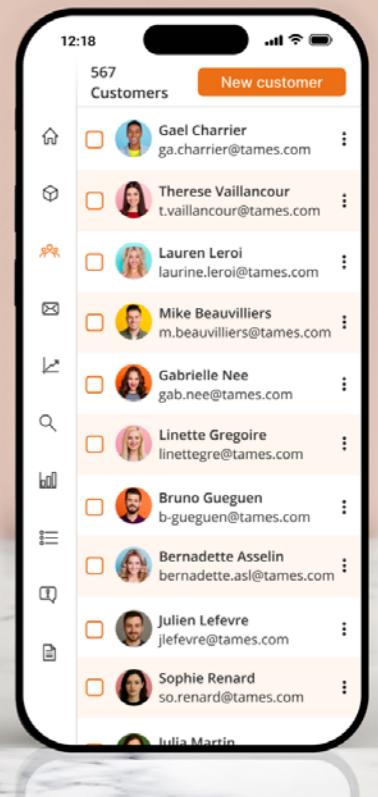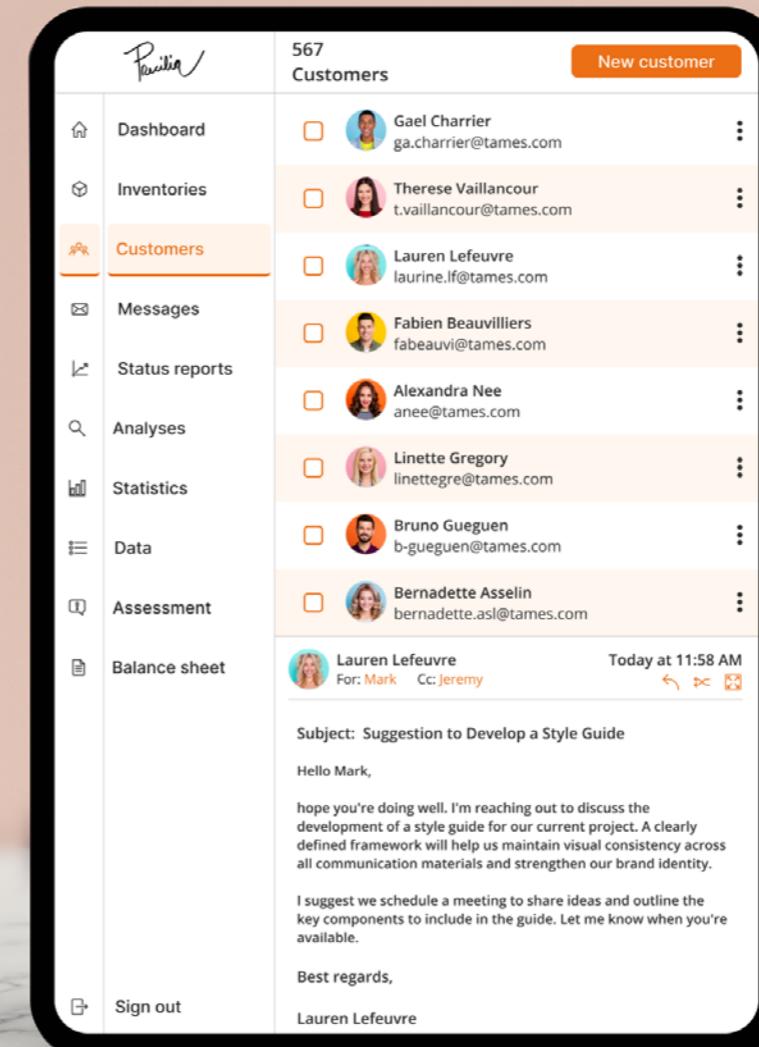


## 750 New feature WD WB WM
### A POSITIONING MODE ADAPTED TO MOBILE DEVICES

Grids are a relative positioning mode.
This mode complements the modes already available in WINDEV Mobile.
It is mobile-friendly, which means that objects are always perfectly aligned, regardless of the data, orientation, or platform (phone or tablet).
See New feature 010.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Adaptive UI*

## 751 New feature WD WB WM
### EXAMPLE

The two screenshots above are a good example of the benefits of grid-based positioning.
The window displayed on the tablet contains a 3 x 3 grid.

The first row contains the logo and the header, while taking up two columns.
The second row shows menu icons, menu options and a list of messages.
The third row shows message details.
When displayed on a smartphone, areas are rearranged by adjusting the visibility of rows and columns.
In this case, the second column and third row are hidden.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Complete UI solution in one control*

## 752 New feature WD WB WM
### NUMEROUS POSSIBILITIES

Grid-based positioning lets you design complex, adaptive interfaces, while taking advantage of the simplicity of a visual layout in the window editor.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*One control, many possibilities*

# REACTIVE PROCEDURES FOR MOBILE
## SIMPLIFIED PROGRAMMING

## OBSERVER DESIGN PATTERN

## A **REACTIVE PROCEDURE** IS EXECUTED AUTOMATICALLY EACH TIME A CONTROL OR VARIABLE IS MODIFIED

### 753 New feature WD WB **WM**
**A POWERFUL CONCEPT**

Reactive Procedures first appeared in WINDEV.
In version 2026, they become available for mobile applications.
Reminder: A reactive procedure is executed when a variable or when the value or content of a control used in the procedure is modified, either by the end user or programmatically.
The Reactive Procedure constantly "observes" the associated variables and controls to detect changes in value, and is automatically executed in this case.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Intuitive programming*

### 754 New feature WD WB **WM**
**UNIQUE AND CENTRALIZED CODE**

The main advantage of the reactive procedure approach is that the framework is the one that observes for changes in value of a control.
There's no need to write the calls in every control where changes can be made.
This translates into zero resource consumption, because the framework takes care of everything in an optimized way. It's the control (or variable) that automatically notifies changes in its values to the reactive procedure.
The single, clear code of the Reactive Procedure makes it possible to observe and update different controls and variables without a single line of code.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Code once and let the magic happen*

### 755 New feature WD WB **WM**
**HOW TO DECLARE A REACTIVE PROCEDURE**

The `Reactive` keyword indicates that the procedure must observe the variables and controls used in its code.
It also executes the procedure when a change is detected.

```
REACTIVE PROCEDURE CalculateTotal()
```

A Reactive Procedure can be global (and therefore permanently reactive), local to a window or local to a control.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*You decide the scope*

### 756 New feature WD WB **WM**
**REACTIVE PROCEDURE OPTIONS**

Reactive procedures offer 2 options:
*   Delay: Execute after a given time period. For example, you can set the procedure so that it is executed 100 milliseconds after a value change.
*   Execution: Reactive Procedures can be programmatically executed.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Power*

### 757 New feature WD WB **WM**
**CASCADE**

A reactive procedure can modify a variable or a control used by another reactive procedure.
In this case, the other reactive procedure will be executed.
Note that the framework implements the necessary security mechanisms to avoid calls in a loop.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Code smarter, not harder*

### 758 New feature WD WB WM
**NEW PALETTES**

In version 2026, new color palettes are available for your mobile applications.
These palettes let you customize skin templates for even better UI customization options.
A dark palette is available for the latest skin templates.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*New looks for your apps*
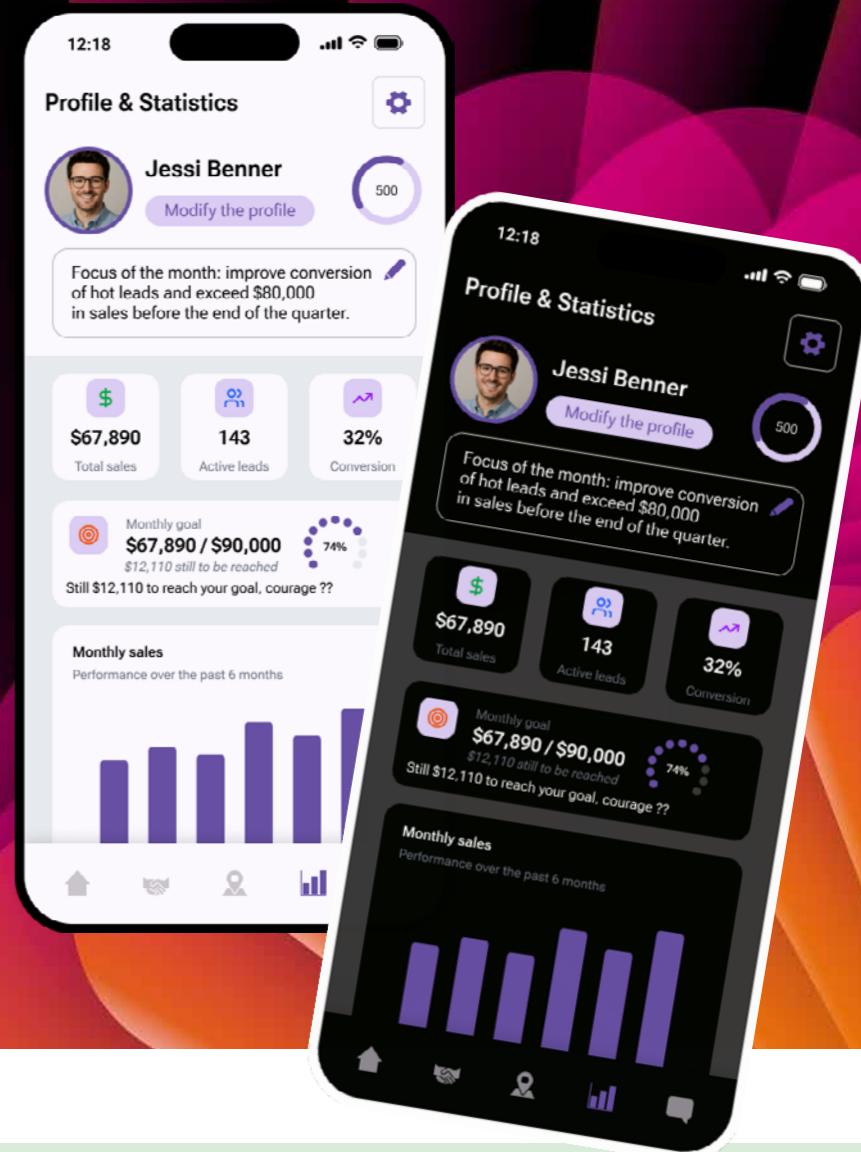
## WI-FI DEBUGGING

### 759 New feature WD WB WM •
**DEBUG OVER WI-FI**

WINDEV Mobile 2026 features an improved debugger for Android applications. The debugger can now run on an Android device (smartphone, tablet, industrial terminal) connected to the development computer over Wi-Fi.
To pair the device, simply specify its IP address in the debugger, and enter a one-time code on the device.
All debugger commands are available in Wi-Fi mode: step by step execution, trace, watch, breakpoint, etc.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*No cables, no hassle*

# AND MORE FOR ANDROID

## 760 — New feature WD WB **WM**
### ALL THE COMMON NEW FEATURES FOR MOBILE APPS

Android development has never been as powerful as with WINDEV Mobile 2026.
The amount of powerful features at your disposal keeps growing. Android evolves, and so does WINDEV Mobile . This particular version features **Android 16** support**.**
WINDEV Mobile 2026 for Android benefits from:
- the common new features in version 2026
- *plus* the common new features for mobile devices
- *plus* new features specific to Android.

## 761 — New feature WD WB **WM**
### ANDROID 16 SUPPORT

WINDEV Mobile 2026 supports the latest version of Android.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Stay up to date*

## 762 — New feature WD WB **WM** •
### SCATTER CHART

Version 2026 supports Scatter charts.
Of course, all WLanguage functions for manipulating this type of chart are also available.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*New chart for your mobile apps*

## 763 — New feature WD WB **WM** •
### NAMED PARAMETERS

In version 2026, you can use named parameters in Android applications.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Simplify your calls*

## 764 — New feature WD WB **WM**
### ++ IN EXPRESSIONS

In version 2026, the `++` operator can also be used in expressions. The same goes for the `--` operator.

```
n is int = 15
RETURN n++
```

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Standard programming*

## 765 — New feature WD WB **WM**
### MULTIPLE FILE SELECTION

The `URISelect` function allows you to select several files simultaneously. Simply use the `uriOpenMultiple` constant.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*More is better*

## 766 — New feature WD WB **WM**
### NULL IF EMPTY

The "Null if empty" option in 7-tab windows is now available for Android.
When this option is enabled, controls containing no value return NULL instead of an empty string.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*New option*

## 767 — New feature WD WB **WM**
### OAUTH CONNECTION WITH CERTIFICATES

Connecting to an OAuth server may require a certificate.
It is now possible to pass this certificate as a parameter using the `..ClientCertificate` property of the `OAuth2Parameters` parameter.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Certify your access*

## New feature WD WB **WM**
## 768 to 789 — 24 NEW WLANGUAGE CONSTANTS

24 new constants are available for Android:

| | | | |
|---|---|---|---|
| authClientSecretBasic | winPositionCenteredInScreen | winPositionCenteredInParent | winPositionRelativeToScreen |
| grScatter | grXValue | grYValue | iProtectionAssemble |
| iProtectionCopyAccessibility | iProtectionFillForm | jwtHS256 | jwtRS256 |
| mqttIgnoreExpiredCertificate | mqttIgnoreInvalidCertificate | mqttIgnoreInvalidCertificateName | mqttIgnoreRevocation |
| gtCustomGrantType | LineNone | trConsole | typSegmentedButton |
| typImageEditor | typeMimeCalendar | typFlexbox | typOptionSegmentedButton |

---

# TALK TO USE YOUR APP THANKS TO GEMINI
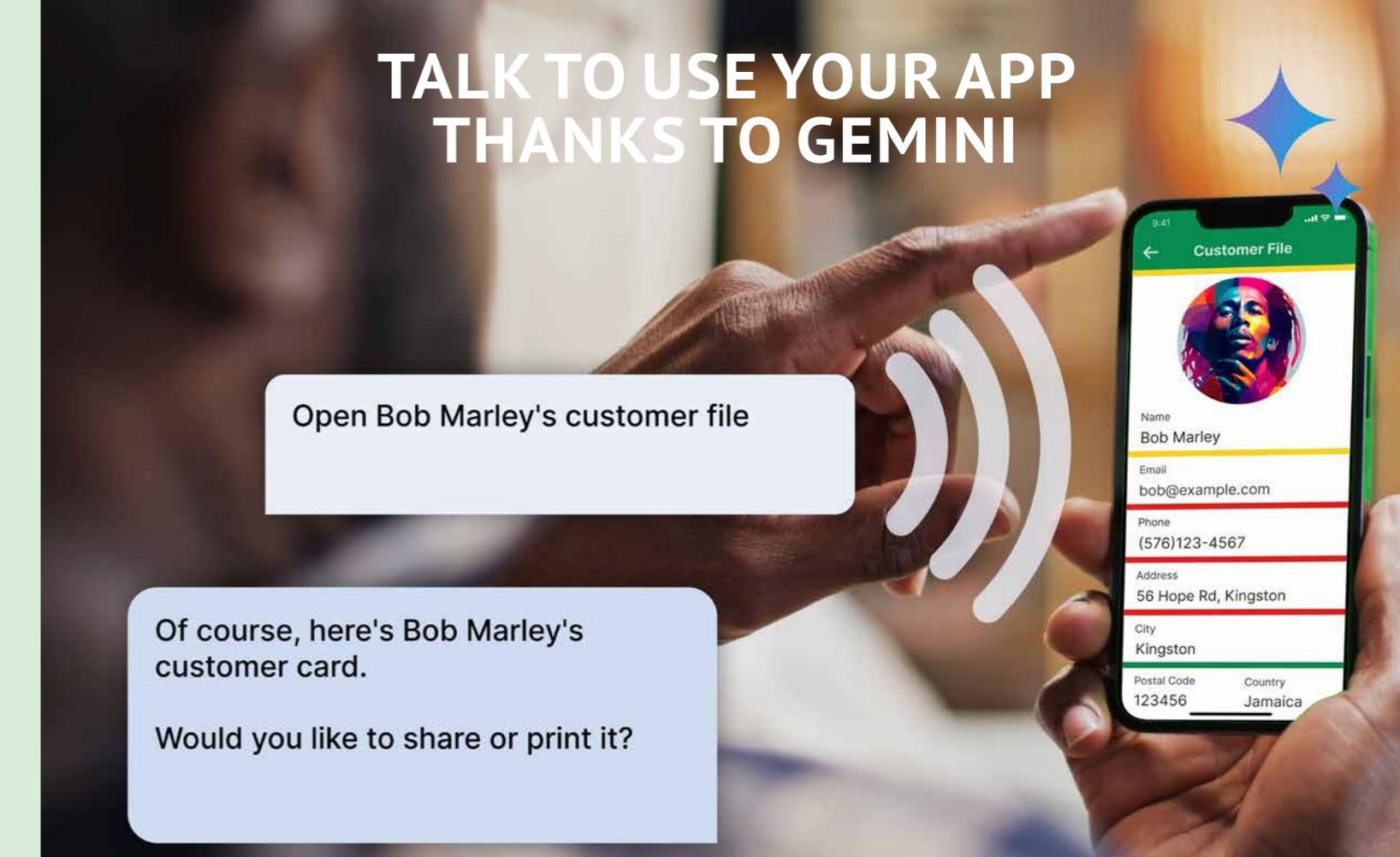


## 790 — New feature WD WB **WM**
### TYPE OR TALK TO TAKE ACTION

You're probably familiar with Gemini, Google's AI assistant, which is now integrated into most Android-based devices.
WINDEV Mobile 2026 lets you integrate Gemini and perform actions within your applications.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*A new way to use your applications*

## 791 — New feature WD WB **WM**
### EXAMPLE

An elevator mechanic asks your app "Show me the manual for the elevator in shaft A, Wood Side apartments, Katz Street, Centralia".
Of course, in this case, it means that the corresponding record is present in your database.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Look Ma, no hands!*

## 792 — New feature WD WB **WM**
### HOW IT WORKS

The process is very simple:
- Your application must anticipate the requests it can handle. Each request corresponds to a WLanguage procedure.
- The new WLanguage `GeminiAnalyzePrompt` function launches the AI assistant with words pronounced or typed by the user.
- AI will search for and execute the procedure corresponding to the request.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Powerful, yet simple implementation*

## 793 — New feature WD WB **WM**
### SPECIFIC PROCEDURES

To specify that a procedure can be used by the AI Chat control, simply indicate its desired action and parameters between the `<AI>` and `<END>` tags
In our previous example, the procedure description will be `"Get an elevator manual based on its address and shaft location"`.
This procedure will accept 2 parameters: the address and the shaft location. Each parameter has a description. For example, the address description could be `"Complete address of the building to which the elevator belongs"`.

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*Feel free to add AI into your code*

## 794 — New feature WD WB **WM**
### TOTAL CUSTOMIZATION

You can create as many procedures as required in an application.
*Note: The number of calls to Gemini is limited by Google. Obtaining the Google API key is currently free of charge.*
*When the number of tokens used exceeds a certain limit within a set period of time, a paid subscription is required.*

BENEFIT OF THIS NEW FEATURE IN VERSION 2026:
*You decide*

## 795 to 799 — 5 NEW WLANGUAGE TYPES

5 new types of variables are available for Android:

| | | | |
|---|---|---|---|
| ParametersSet | Definition | ftpConnection | WindowOpeningOptions |
| pdfProtection | | | |

New feature WD WB **WM**

## 800 to 837 — 38 NEW WLANGUAGE FUNCTIONS FOR ANDROID

Version 2026 adds 38 new functions for Android, as well as 22 new functions for Android Widgets and 8 new constants.

| | | | |
|---|---|---|---|
| MapAddLayer | MapIDGgl | MapDeleteLayer | CertExtractEnvelopedMessage |
| VaultSecretContents | VaultUseContentsForTestMode | dTextHeight | dTextWidth |
| EmailSubscribeToFolder | EmailUnsubscribeFromFolder | EmailExecuteCommand | InAIToolMode |
| WinListOpenChildWindow | WinListOpenWindow | FTPGetFile | FTPDirExist |
| fMIMEType | GeminiAnalysisPrompt | GéminiChargeModel | grScatterAddDataXY |
| grScatterSeriesColor | grScatterSeriesLabel | grScatterGetDataXY | grScatterLinkPoint |
| grScatterPointSize | HExecuteAsynchronousProcedure | HUpdateLink | JWTCreateAssertion |
| PDFControlInfoXY | ShamirCreateShares | ShamirGeneratePrime | ShamirReconstructSecret |
| SSHConnectCommand | SSHDisconnectCommand | ArrayContain | zipStartAddingFile |
| zipEndAddingFile | LooperAddIWBeginning | | |

## AND MORE FOR IOS

New feature WD WB **WM**

## 838 — ALL THE COMMON NEW FEATURES FOR MOBILE APPS

iOS development has never been as powerful as with WINDEV Mobile 2026.
The amount of powerful features at your disposal keeps growing.

---

iOS evolves, and so does WINDEV Mobile 2026.
This particular version features **iOS 26** support.
WINDEV Mobile 2026 for Android benefits from:
- the common new features in version 2026
- **plus** the common new features for mobile devices
- **plus** new features specific to iOS.

New feature WD WB **WM**

## 839 — COMMON NEW FEATURES IN VERSION 2026

Version 2026 includes many common new features.
iOS benefits from:
- Trace window (See New feature 741)
- Grid control
- OpenStreetMap
- Combo Box controls with bottom sliding windows
- Reactive procedures

New feature WD WB **WM**

## 840 — IOS 26, NEW IPHONE 17, WATCH SERIES 11

WINDEV Mobile 2026 supports both iOS 26 and WatchOS 11.

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All iPhone 17 and AppleWatch Series 10 models are supported.

**Benefit of this new feature in version 2026:**
*Enjoy all the features of iOS 26*

## 841 — WEB SERVICE REST: OPENAPI

New feature WD WB **WM**

Now, you can import and use OpenAPI descriptions in iOS.
This avoids building calls from scratch.

**Benefit of this new feature in version 2026:**
*Additional functionality*

## 842 — READ EXIF DATA PROGRAMMATICALLY

New feature WD WB **WM**

Digital photographs contain additional information, such as the date the photo was taken, focal length, orientation, etc.
This information is known as EXIF data.
In version 2026, it is possible to read this information programmatically in iOS applications.

**Benefit of this new feature in version 2026:**
*Get all the data from images*

New feature WD WB **WM**

## 843 to 849 — 7 NEW TYPES

7 new types of variables are available for iOS:

| | | |
|---|---|---|
| ftpConnection | hReindexingHistory | hSecurityPolicy |
| aiEmbeddingSet | aiEmbedding | pdfProtection |
| xmlXAdESSignature | | |

**Benefit of this new feature in version 2026:**
*More and more power in WLanguage*

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New feature WD WB **WM**

## 850 to 904 — 55 NEW WLANGUAGE FUNCTIONS FOR IOS, 65 CONSTANTS

WLanguage is enriched with 55 new functions for iOS, as well as 65 new constants and 44 new functions for iOS Widgets (see online help for the full list).

| | | | |
|---|---|---|---|
| MapAddLayer | MapDeleteLayer | CertificateExtractEnvelopedMessage | StringWrap |
| VaultSecretContents | VaultGetContent | VaultUseContentsForTestMode | dDifferenceImage |
| dTextHeight | dTextWidth | EmailSubscribeToFolder | EmailUnsubscribeFromFolder |
| EmailExecuteCommand | InAIToolMode | IntegerToBuffer | WinListOpenChildWindow |
| WinListOpenWindow | FTPDirExist | GraphQLExecuteQuery | HExecuteAsynchronousProcedure |
| SemanticKeyList | HListReindexingHistory | SemanticListIndex | HSecurityPolicyUnlockAccount |
| HSecurityPolicySet | HSecurityPolicyGet | HSecurityPolicyCheck | HRecalculateEmbedding |
| HReindexAsynchronous | HStatCalculateAsynchronous | HTTPSendAsynchronous | HCheckIndexAsynchronous |
| HCheckMemoAsynchronous | AICalculateSemanticSimilarity | IACollectionVector | SemanticsAverage |
| AICreateEmbeddingSet | AICreateEmbedding | JWTCreateAssertion | SemanticSearch |
| ShamirCreateShares | ShamirGeneratePrime | ShamirReconstructSecret | SSHConnectCommand |
| SSHDisconnectCommand | ArrayContain | TelemetrySendExceptionInfo | TraceDeleteAll |
| wdbaasCreateUser | wdbaasUserInfo | wdbaasListUser | wdbaasEditUser |
| wdbaasDeleteUser | zipStartAddingFile | zipEndAddingFile | |

New feature WD WB **WM**

## 905 to 914 — 10 NEW WLANGUAGE FUNCTIONS FOR APPLE WATCH, 12 CONSTANTS

WLanguage is enriched with 10 new functions for Apple Watch and 12 new constants. See the full list in the corresponding help page.

| | | | |
|---|---|---|---|
| StringWrap | VaultSecretContents | VaultGetContent | VaultUseContentsForTestMode |
| InAIToolMode | IntegerToBuffer | GraphQLExecuteQuery | SemanticSearch |
| ArrayContain | TelemetrySendExceptionInfo | | |

## AND MUCH MORE...

## 915 — AND MANY OTHER NEW FEATURES

New feature WD WB **WM**

Version 2026 includes many other new features. Feel free to explore all the possibilities brought to you by this new release.

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