



WINDEV®

925 NEW FEATURES

- AI code generation
- Reactive procedures
- WINDEV Suite SaaS
- Password vault
- Palettes
- Secure web services
- Integrated OAuth server
- SSO automation
- SMS one-time codes
- Yousign
- 5x faster web services
- New modifier
- Control creation pane
- Mobile scanner
- Automatic HTTPS certificates
- Web Scheduler & Organizer controls
- Speed
- Security
- 300 New WLanguage features
- Windows, iOS, Android, Linux, Web, Java, PHP & more

N E W V E R S I O N

2025

DEVELOP 10 TIMES FASTER

 WINDEV.COM

DEVELOP 10 TIMES FASTER

The new version 2025 & WINDEV Suite SaaS bring you an incredible amount of useful new features.

AI code generation, palettes, secure web services, SSO automation, new controls, Yousign, integrated OAuth server, higher speeds, and more.

Version 2025 brings your teams 925 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 2025.

These new features meet your needs, while maintaining compatibility with the elements you already have.

WINDEV 2025, WEBDEV 2025 and WINDEV Mobile 2025 are your working tools. Our main goal is to help you succeed, regardless of the environment and devices your projects are aimed at.

Version 2025 will instantly become your favorite version.

SUBSCRIBE OR ORDER VERSION 2025 TODAY!



Legend

WD WB WM: The Legend indicates the IDE in which the new feature is available.

The icon indicates that the new feature is already available in the SaaS version released in June.

This document only presents the new features in version 2025. To discover the thousands of features in each software product, refer to their respective documentation (at WINDEV.COM or printed brochures on demand).



AVAILABLE FROM 2024!



AI: WLANGUAGE REAL TIME CODE GENERATION

Generative Artificial Intelligence provides developers with an invaluable tool.

Version 2025 introduces AI-based code suggestions in real time.

```

Click BTN_FindCustomer
Click BTN_FindCustomer *
// Search criteria
QRY_Customer.ParamName = EDT_Name
QRY_Customer.ParamEmail = EDT_Email

HExecuteQuery(QRY_Customer)

FOR EACH QRY_Customer
    // If a customer has been found, they are added to the table
    TABLE_CUSTOMER.AddLine(QRY_Customer.CustomerID, QRY_Customer.LastName, ...
        QRY_Customer.FirstName, QRY_Customer.Email, QRY_Customer.ISOCountry)
END
                    
```

AI-powered code. AI detected the query items, found the Table control and populated the columns with the corresponding items.

001 New feature WD WB WM BOOST PRODUCTIVITY THANKS TO AI

Version 2025's AI-powered predictive code generation provides WLanguage code suggestions as developers type, drastically reducing the time needed for coding.

This allows for faster coding, reduces repetitive tasks and provides automation and suggestions for predictable parts of the code.

This feature is available in WINDEV 2025, WEBDEV 2025 and WINDEV Mobile 2025 and, of course, in SaaS* version.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
A powerful tool at your fingertips



AI: PREDICTIVE WLANGUAGE CODE GENERATION



002 New feature WD WB WM AUTOMATIC CODE COMPLETION AND SUGGESTIONS

Version 2025 introduces context-based code suggestions. These suggestions take into account:

- the project,
- the code above and below the current line,
- previously modified code,
- windows,
- reports,
- sets of procedures,
- data file items (table columns).

AI suggests the most probable code based on all these elements.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

A new coding ally

003 New feature WD WB WM GET SUGGESTIONS AFTER 1 SECOND OR PRESS A FUNCTION KEY

Non-intrusive code suggestions appear as "ghost text" (light yellow text) below the current line of code or at cursor position. By default, suggestions appear after 100 milliseconds without writing code.

To accept the code suggestion, simply press the TAB key.

To dismiss a suggestion, simply continue writing your code, or press the ESC key.

You can also request a new code suggestion by pressing CTRL+SHIFT+TAB.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Several options at your disposal

004 New feature WD WB WM CODE SUGGESTIONS TO CONNECT TO SPECIFIC TECHNOLOGIES

One of the advantages of AI-powered WLanguage code generation comes into play when developers need to develop for a domain they are not familiar with.

Now developers can simply write a comment describing the desired process and AI will generate the corresponding code, based on the context of the current code and project.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

There are no limits

005 New feature WD WB WM EASILY LEARN WLANGUAGE OR WLANGUAGE DOMAINS

AI-based WLanguage code generation is also useful for developers new to WINDEV, making it easier for them to discover the incredible possibilities of a 5GL.

Here too, writing a comment describing the desired process is all it takes to generate the corresponding code, based on the context of the current code and project.

The more precise the comment, the better the result.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

An essential tool for both new and experienced developers

006 New feature WD WB WM SUGGESTIONS IMPROVE OVER TIME

This powerful generative AI feature is available at a relatively early stage.

New functionalities will be added over time, and the engine itself will improve through self-learning.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Like fine wine



Note: depending on the number of suggestions provided over a given period of time, as well as server load, this feature may be temporarily paused to free up resources for other users.

This feature is available with no additional subscription needed, during the marketing period of the current version.

Phantom text in yellow italics appears as the user types. Press TAB to accept a suggestion.

```
request_ws.URL = "https://api.weather.precilia.com/v1/forecast?latitude=
response_ws is httpResponse = HTTPSend(request_ws)
weather_forecastws is JSON = response_ws.Content

FOR EACH water_temperature IN weather_forecastws.temperature
  forecast.temperature_table.Add(water_temperature)
END

FOR EACH clouds IN weather_forecastws.cloud_cover
  forecast.clouds_table.Add(clouds)
END

FOR EACH wind_direction IN weather_forecastws.wind_speed
  forecast.wind_table.Add(wind_direction)
END
```

AI analyzed the code, detected a pattern and therefore suggests a block of code for the following elements of the source JSON structure. To accept the suggestion (represented in light yellow italics), press TAB

```
EDT_END_DATE = plLcuLateEndDate(EDT_CONTRACT_DATE)
```

AI analyzed the window and detected that a procedure is calculating a due date. It detected an Edit control with a contract date, and suggests the most probable code to continue the current line. To accept the suggestion (in light yellow italics), press TAB

When coding, simply type a comment...

```
pdf_contract is pdfDocument = PDFOpen(EDT_CUSTOMER_CONTRACT)
confidential_watermark is Watermark

// Adds a "Confidential" watermark to the first page of the PDF document
```

...AI suggests code to perform the action described in the comment, based on the context of the project. Press TAB to accept, Shift+TAB to get a new suggestion, or Esc or keep typing to dismiss the suggestion

```
pdf_contract is pdfDocument = PDFOpen(EDT_CUSTOMER_CONTRACT)
confidential_watermark is Watermark

// Adds a "Confidential" watermark to the first page of the PDF document
confidential_watermark.Text = "Confidential"
confidential_watermark.Font.Name = "Arial"
confidential_watermark.Position = iCenterH + iBottom

PDFAddWatermark(pdf_contract.Page[1], confidential_watermark)
```

If you are not happy with the result, press SHIFT+TAB to request a new suggestion

COLOR PALETTES

LET END-USERS SWITCH TO THEIR FAVORITE THEME

1 LINE OF CODE, 1 CLICK

007 New feature WD WB WM ONE LINE OF CODE

With palettes, end users can change the look of your application in 1 click.

In the source code, simply use the **PaletteChange** WLanguage function, indicating the palette to be applied.

The change is applied dynamically by the WINDEV 2025 graphics engine.

That's all it takes!

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Powerful customization, one click away

Each color is named according to its use: main_background, main_text, banner, button_background, etc.

Once defined, palettes allocate a color to each "color name".

For example button_background = yellow or button_background = RGB(125,200,36)

When a new palette is applied, all controls automatically switch to the new colors.

This mechanism lets you change the look of an application easily and dynamically.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Working with colors is now easier than ever

008 New feature WD WB WM WHAT IS A COLOR PALETTE?

A palette is a set of nearly one hundred colors.

Each color is intended for a specific use in the skin template: background, text, rules, etc.

009 New feature WD WB WM HOW TO CHANGE A COLOR PALETTE

The new **PaletteChange** WLanguage function allows you to change the color palette used by a skin template.

Now, you can refresh an entire application in 1 line of code.

Simply add an option in the application so that the user can choose the desired theme: dark theme, "same colors as the current Windows theme", etc.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Hoist your colors

010 New feature WD WB WM COLOR PALETTES PROVIDED: DARK THEME AND MORE

Numerous color palettes are available in version 2025.

For example, the "Dark theme" palette lets you easily switch your applications to dark theme.

This means all your applications can use this popular theme.

In your application, this will require a single line of code.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Like night and day

011 New feature WD WB WM ONE SKIN TEMPLATE, MANY PALETTES

Applications use skin templates to define their style book.

A skin template defines the style of the controls: control borders, rounding, effects, font and font size, control size, etc.

And, of course, skin templates use colors for all these elements.

In version 2025, the internal skin template format has been changed from fixed colors to a palette.

As an added benefit, skin templates from version 23 onwards are compatible with version 2025, and can therefore use different palettes. Feel free to use them in your existing applications.

When recompiling projects in version 2025, you will be prompted to adopt the new skin template format.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

The best of both worlds

012 New feature WD WB WM USE THE COLORS OF THE CURRENT WINDOWS THEME

The new **PaletteGenerate** WLanguage function generates a color palette based on the Windows accent color currently in use on the end user's computer.

This makes it easy to obtain a UI that matches the dominant color of the PC in use.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Cohesive UI without effort

013 New feature WD WB WM ICONS AND BUTTONS

A skin template contains icons.

When a different palette is applied, icons need to adapt, especially when switching to a dark theme.

In particular, icon colors must change automatically to improve readability.



USE PALETTES TO CHANGE THE LOOK OF YOUR APPLICATIONS IN 1 LINE OF CODE

For example, in dark theme, different colors change to white.



*Left - Original icons
Right - Automatically white icons for dark mode*

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Automatic adaptation

014 New feature WD WB WM CHARTS

An application can contain charts.

When a new palette is applied, the chart adapts to the new colors.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Beautiful charts by default

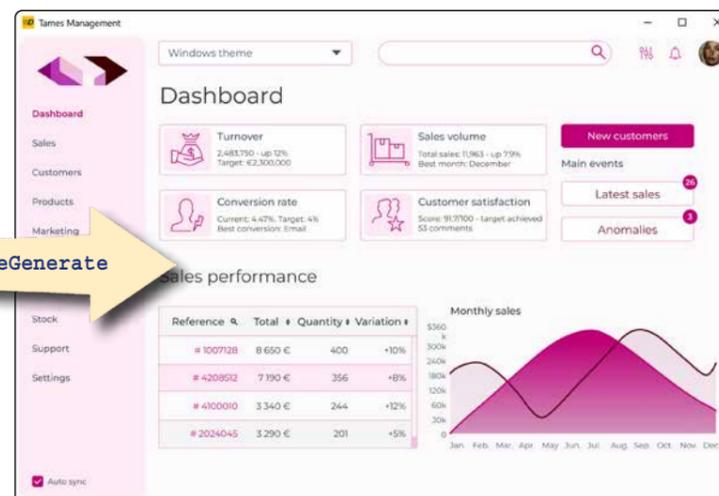
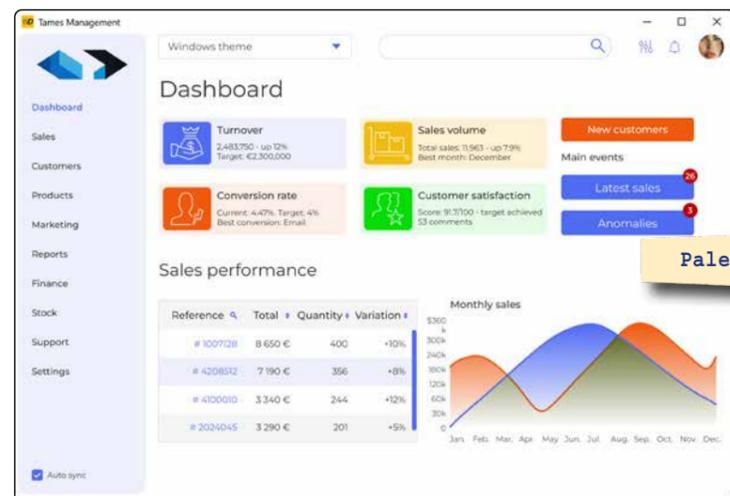
015 New feature WD WB WM OPACITY IN COLORS

Palette colors support opacity.

Transparency is defined by an alpha channel.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Even more possibilities



016 New feature WD WB WM CREATE YOUR OWN COLOR PALETTES

When a project has to comply with a specific style book, you can simply create a specific palette.

The new `PaletteGenerate` WLanguage function allows you to create a color palette.

It is also possible to create additional named colors and include them in a palette.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Unleash your inner artist

017 New feature WD WB WM ADVANCED MODE FOR GRAPHIC DESIGNERS

You can indicate that a named color is derived from another named color to which a filter has been applied. You can define the hue, lightness, etc.

This makes it possible to create color gradients.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
A palette that builds itself

018 New feature WD WB WM GENERATE A COLOR PALETTE IN 3 CLICKS

It is also possible to generate a new palette almost automatically by providing only 1 to 3 basic colors.

A cohesive palette will be generated using these colors.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Harmonious colors in no time

019 New feature WD WB WM EASILY SHARE PALETTES BETWEEN PROJECTS

On disk, palettes are stored as JSON files.

This makes it easy to share them between different projects.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Sharing is caring

020 New feature WD WB WM USE PALETTE COLORS BY NAME

You can use a "named color" instead of the value of the color, anywhere in WLanguage code. This includes functions, properties, etc. The same applies to the 7-tab window.



Named color in the 7-tab window

One advantage is that, when a new palette is applied, the new color is automatically used.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Call colors by their name

021 New feature WD WB WM USE COLOR PALETTES IN MOBILE PROJECTS

Palettes in version 2025 can be used and shared with WINDEV Mobile applications.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Interoperability

022 New feature WD WB WM ACCESSIBILITY: ADVANTAGES OF PALETTES

To help users with visual impairments (e.g., color blindness) make the most of your application, you can easily provide one or more adaptive palettes.

Some specific palettes can also help prevent epileptic seizures.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Colors for everyone

023 New feature WD WB WM MULTIPLE PALETTES IN A SINGLE PROJECT

In a project, certain windows may require a different appearance. Some examples include settings or administration windows. To achieve this, you can use different palettes for different windows within a single project.

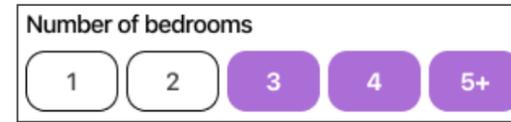
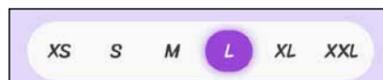
BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Practicality

NEW CONTROL FEATURES

024 New feature WD WB WM NEW SEGMENTED BUTTON CONTROL

The new Segmented Button control is a smart way to group options together and allow single or multiple choice. These options can be represented using images as well.

This is much easier than using a series of switch controls. See new feature 242



BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Powerful and simple code, perfect alignment

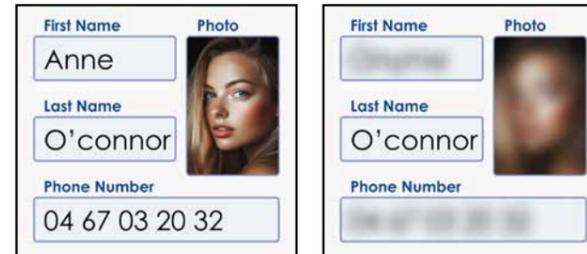
025 New feature WD WB WM BLUR CONTROLS

In version 2025, you can programmatically blur the content of an Edit, Combo Box or Image control.

The default blur level makes text unreadable. You can change this value at any time.

The new `..Blur` property takes the blur radius as a parameter.

In particular, blurring makes it possible to comply with GDPR regulations directly in the code, if you don't want to make a given control invisible.



Last name and Phone fields have been programmatically blurred

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Easy GDPR compliance and privacy tool

026 New feature WD WB WM TABLE CONTROL BASED ON DATA FILES: SORT AND FILTER ON ALL COLUMNS

In version 2025, the Table control enables users to sort and filter all columns, including non-indexed columns.

Bear in mind that, on non-indexed columns, you must manipulate a reasonable volume of data to optimize response times.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Let users make the most of your tables

027 New feature WD WB WM END-USER REPOSITIONABLE NOTES: NEW LOOK

Repositionable Notes get a new look in version 2025. See new feature 219

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Modernize controls by simply recompiling projects

5 NEW SMART CONTROLS

028 New feature WD WB WM 5 NEW SMART CONTROLS

Version 2025 features 5 new Smart controls:

- Retrieve one-time code
- QRCode with central logo
- Light color picker for web
- Handwritten signature for mobile
- Page range input

You can learn more about these Smart controls in their corresponding sections: New feature 215 for WINDEV, 442 for WINDEV Mobile, and 781 for WEBDEV.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Massive time savings

NEW FEATURES OF WORD PROCESSING AND SPREADSHEET CONTROLS



029 New feature WD WB WM SPREADSHEET CONTROL: NATIVE CSV SUPPORT

CSV is a legacy format used to create spreadsheets. Today, it is still used as an export format by many programs. WINDEV has always included WLanguage functions for CSV files. In version 2025, the Spreadsheet control lets you directly display and manipulate the contents of a CSV file.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Native support



030 New feature WD WB WM WORD PROCESSING CONTROL: EXPORT TO PDF & PRESERVE LINKS

You can insert web links into your document. In version 2025, when a document containing links is exported to PDF (`DocToPDF` WLanguage function), links are preserved and URLs are clickable.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
True links, no matter the format

031 New feature WD WB WM SPREADSHEET: 3 NEW FUNCTIONS FOR FORMULAS

Version 2025 introduces three new functions for formulas in Spreadsheet controls:

- DATEDIF: Difference in days between 2 dates
- GROWTH: Value along an exponential trend
- DCOUNTA: Counts non-empty cells in a range.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Simple, yet powerful programming

032 New feature WD WB WM MISCELLANEOUS

- Ability to use the format painter programmatically

NEW CHART CONTROL

033 New feature WD WB WM ICONS INSTEAD OF LABELS



In version 2025, categories in Pie and Donut charts can be represented using icons instead of labels.

This makes for a more modern, user-friendly data representation.

Icons replace labels

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Charts you're happy to look at



PDF CONTROL: NEW FEATURES

This enables you to automate various processes:

- generate pre-populated forms
- retrieve data directly
- perform batch processing: fill out and send a form, without human intervention

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Essential PDF functionalities

034 New WD WB WM PROGRAMMATICALLY READ FROM AND WRITE TO FIELDS IN PDF FORMS

MOTOR VEHICLE BILL OF SALE

1. **THE PARTIES.** This transaction is made in the County of United States, State of New York, on October 17, 2024 by and between:

Buyer: Bill Cosby with a mailing address of 18 W 29th St, New York, NY 10001 ("Buyer"), and agrees to purchase the Vehicle from:

Seller: Robert Culp with a mailing address of 1675 Broadway 52nd Street, New York City, NY 10019-5820 ("Seller"), and agrees to sell the Vehicle to the Buyer under the following terms:

2. VEHICLE DESCRIPTION.

Make: Jaguar **Model:** F-Pace **Body Type:** SUV

In this PDF form, fields have been populated programmatically. Once filled out, users can then save the PDF document.

A PDF document may contain form fields on different pages. In version 2025, these fields can be manipulated programmatically. Among other actions, you can:

- read values
- write values
- save a PDF document modified programmatically or edited by the end user

035 New WD WB WM LIST FIELDS IN A PAGE OF A PDF FORM

In version 2025, it is also possible to analyze a page programmatically to detect form fields. This allows you to:

- list fields
- determine their type

The `pdfPage` WLanguage type now contains additional information as an array of PDF controls. This enables even more automated processing.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
More automation possibilities

036 New feature WD WB WM EXTRACT PAGES FROM A PDF DOCUMENT TO CREATE A NEW PDF DOCUMENT

The new `PDFExtract` WLanguage function allows you to extract one or more pages from a PDF document, and create a new document from these pages.

Example:

`MyPDF = MySourcePDF.Extract ("3,10,15-16,36")`

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Extremely useful feature

037 New feature WD WB WM NEW CHART CONTROL: PICTORIAL PERCENTAGE

A new type of chart appears in version 2025: Pictorial Percentage chart.

This new chart visually illustrates data as percentages, using shapes, such as bottles, human silhouettes, thermometers, etc. This makes information easier to understand at a glance.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
New type of chart

038 New feature WD WB WM NEW PICTORIAL PERCENTAGE CHART: PROGRAMMING

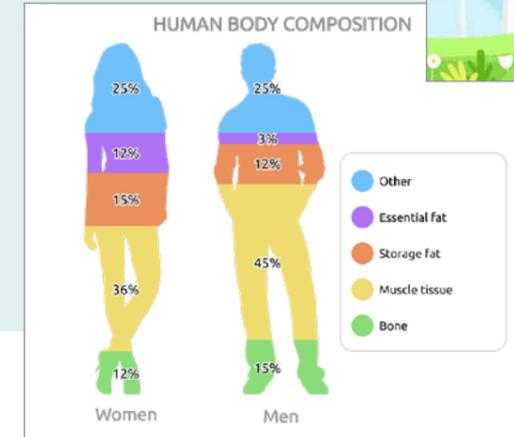
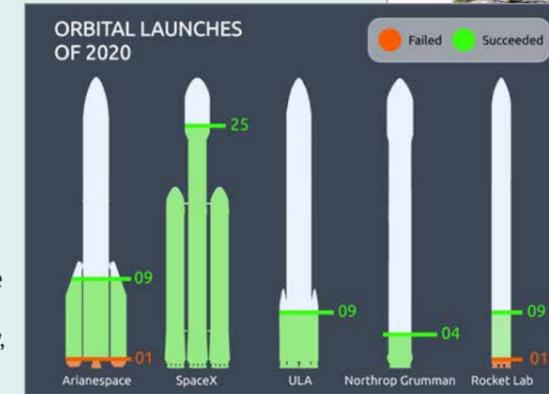
The new Pictorial Percentage chart uses the same programming as any other standard chart. You can specify the desired images programmatically, or via the 7-tab window.

Supported formats are vector (SVG) or bitmap (JPEG, PNG, etc.).

Vector format is recommended for images that are likely to be resized, without losing quality.

You can manipulate this type of chart using `gx` functions.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Standard programming



A few examples of the new Pictorial Percentage chart

039 New feature WD WB WM CHARTS: FASTER DISPLAY

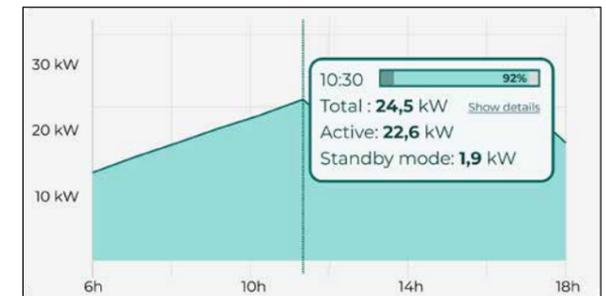
WINDEV's internal display engine can now use Direct2D. When a WINDEV application uses this engine, charts are loaded much faster.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Compile your projects in version 2025, and let the magic happen

040 New feature WD WB WM CHARTS: CUSTOMIZABLE TOOLTIPS

All charts feature tooltips. In version 2025, these tooltips are customizable and can contain dynamic data, provided programmatically. Custom tooltips can be created using an Internal Window.

This opens endless possibilities.



BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Display information exactly the way you want

IMAGE EDITOR: NEW FEATURES

041 New feature WD WB WM VIEW AND EDIT IMAGES IN FULL SCREEN MODE

In version 2025, the Image Editor control features a new image display mode: "Full Screen View". This mode displays only the image in full-screen mode. To enable this display mode, press F11. A new full-screen editing mode has also been introduced, allowing you to take full advantage of your screen real estate. This mode is ideal for precise alignment tasks, or to get a comprehensive overview of your work.



Image Editor in a standard window



F11: Full-screen mode enabled

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
See the full picture



042 New feature WD WB WM IMAGE EDITOR: FASTER THAN EVER

In version 2025, images are loaded much faster, regardless of the display engine used. This is extremely useful for all image editing tasks, such as zooming, moving layers, etc.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Major improvement for TSE / RDP

EDIT WEBSITES AND MOBILE APPS IN WINDEV

043 WD WB WM ONE SINGLE ENVIRONMENT FOR ALL YOUR PROJECTS

As you know, it is possible to use WINDEV, WEBDEV and WINDEV Mobile in the same environment. Project elements are immediately shared between all 3 platforms: analyses, queries, reports, procedures, classes, code, etc. All windows, pages and mobile windows are in the same project. These elements open directly in the WINDEV environment. This allows for easy maintenance and portability of a WINDEV application to mobile and Web, without having to import or duplicate elements of the project. This feature is available both in standard and SaaS versions.

In version 2025, several changes were made to the environment to improve daily workflow. Some of these changes include the color

of the icon at the top of the environment indicating the current configuration (yellow for WINDEV, blue for WEBDEV and orange for WINDEV Mobile).

Reminder: A license of the corresponding software products is required.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
One for all, all for WINDEV

TRANSFORM WINDEV APPLICATIONS INTO SAAS



044 New feature WD WB WM EASILY TRANSFORM DESKTOP APPS INTO SAAS

A growing need is to transform Windows applications (or parts of applications) into SaaS applications, to be sold under a subscription model.

A SaaS administration site is provided with WEBDEV Application Server 2025. Thanks to WINDEV 2025 and the **SaaS** functions, you can use this site to manage the applications you wish to distribute in SaaS mode.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Create SaaS applications

DATA MODEL EDITOR DATA SCHEMA

045 New feature WD WB WM CTRL+E: SEARCH FOR A DATA FILE

As you know, CTRL+E is a powerful key combination. You can use this shortcut to search for or set the position on a project element.

In version 2025, search also includes the description of data files (tables) and items.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
More powerful search

046 New feature WD WB WM MODEL CLASS (ORM): REGENERATE ALL CLASSES IN A SINGLE ACTION

You can generate classes that correspond to the description of data files (tables).

This allows you to structure your application using the Object-Relational Mapping technique (ORM).

The "Regenerate all model classes" menu option regenerates the class when the structure of the data file (table) is modified.

In version 2025, a new option allows you to regenerate all the relevant classes in a single operation.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Less actions

047 New feature WD WB WM WARNING: IMPACT OF STRUCTURAL CHANGES ON DEPLOYED APPLICATIONS

As you know, HFSQL automatically handles changes made to the structure of data files (tables) in deployed applications.

However, some existing processes may be affected by this structural modification. Some examples include:

- deleted item
- change of item type
- etc.

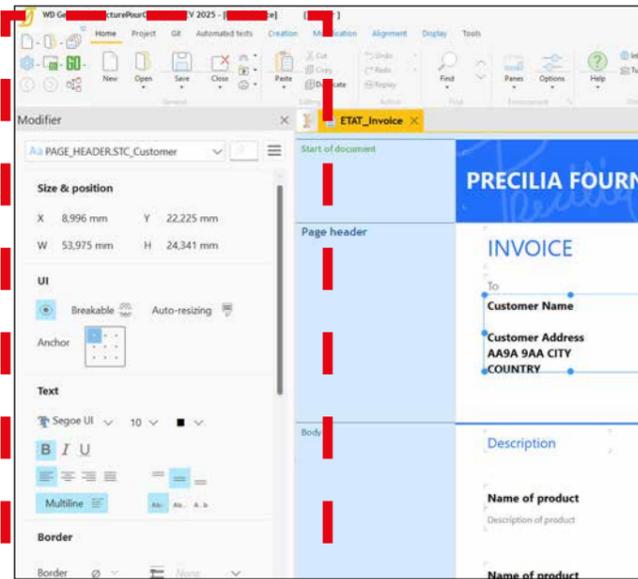
The Database Schema Editor in version 2025 includes a new feature that warns you when a structural change has an impact on existing applications, even for applications you haven't developed. Simply indicate the name (address) of the server(s) hosting the data, and use this feature.

Note: This functionality is automatically executed before an "automatic data file modification" is run.
See new feature 173

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Don't let changes affect your apps

ENVIRONMENT

048 New feature WD WB WM NEW MODIFIER



All parameters at your fingertips

Version 2025 features a revamped modifier pane.
See new feature 062

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Find what you need, when you need it

049 New feature WD WB WM CONTROL CREATION PANE

Version 2025 also introduces a new, incredibly useful pane: the Control Creation Pane, which allows for an intuitive control creation process.

See new feature 065

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Improved workflow

050 New feature WD WB WM FASTER, MORE RESPONSIVE ENVIRONMENT

In version 2025, the environment is faster and less resource-intensive, providing a much smoother user experience.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Smooth operation

051 New feature WD WB WM 5X FASTER TEMPLATE UPDATES

Window, page and report templates are widely used to obtain a cohesive design language. When required, template updates use all available cores.

In version 2025, updating one or more templates across an entire project is on average 5 times faster.

This is particularly useful for large-scale projects.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
The faster, the better

052 New feature WD WB WM PROJECT EXPLORER: EVEN MORE PRACTICAL

In version 2025, the Project Explorer offers 2 new features:

- ability to rename a window, report, page, class, set of procedures and more from within the explorer
- lighter UI, showing only the sections in use

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Better every day

053 New feature WD WB WM NEW VOCABULARY: DATA FILE OR TABLE?

In version 2025, you can choose the vocabulary used in WLanguage, the environment and help systems.

See new feature 170

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
An environment that suits your style

054 New feature WD WB WM EDITING IN WINDEV SUITE: THE ICON IN THE WINDOWS BAR IS IN THE RIGHT COLOR

In WINDEV Suite, you can develop applications for Desktop and Mobile, as well as websites.

In version 2025, the icon displayed in the Windows taskbar adopts the color of the configuration currently being edited: yellow for WINDEV, blue for WEBDEV and orange for WINDEV Mobile.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Essential information at a glance

055 New feature WD WB WM NEW EDITOR SHORTCUTS

3 practical new shortcuts in the editors:

- Space: move elements by the background
- ALT: duplicate
- SHIFT+Resize: proportional resize.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Hands stay on the keyboard

New feature WD WB WM

056 to 058 MISCELLANEOUS

- New presentation of tutorials
- Faster project migration
- Launching Windows Explorer from the environment: ability to choose the desired file manager (e.g. Total Commander)

STATIC PROJECT AUDIT



059 New feature WD WB WM DETECT LARGE IMAGES

The static audit now detects images of disproportionate dimensions.

Reducing these images lightens and speeds up the application or website.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Lighter images, faster applications

DYNAMIC PROJECT AUDIT



060 New feature WD WB WM NEW WARNING: DRAWING IN A COLORLESS IMAGE

One trap a developer can fall into when programmatically modifying an image is forgetting to specify the shape or background color. The dynamic audit now identifies and highlights this problem. This means the developer doesn't have to lose time trying to figure out why nothing appears where the image should be.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
No color, no image

PROJECT MANAGEMENT HUB

061 New feature WD WB WM AUTOMATIC NOTIFICATION OPTIONS

By default, the Project Management Hub is configured to automatically send project status notifications to all relevant recipients. In version 2025, you can decide which messages should be sent to each recipient.

These are some of the configurable notifications:

- New task in a requirement managed by the contributor
- Requirement development completed
- Requirement test completed
- End of a requirement task
- New incident

Continues page 18...

WINDEV 2025 IS COMPATIBLE WITH YOUR EXISTING PROJECTS. JUST COMPILE AND GO.

You don't need to migrate projects from previous versions to version 2025. Simply recompile the application and it will run in version 2025.

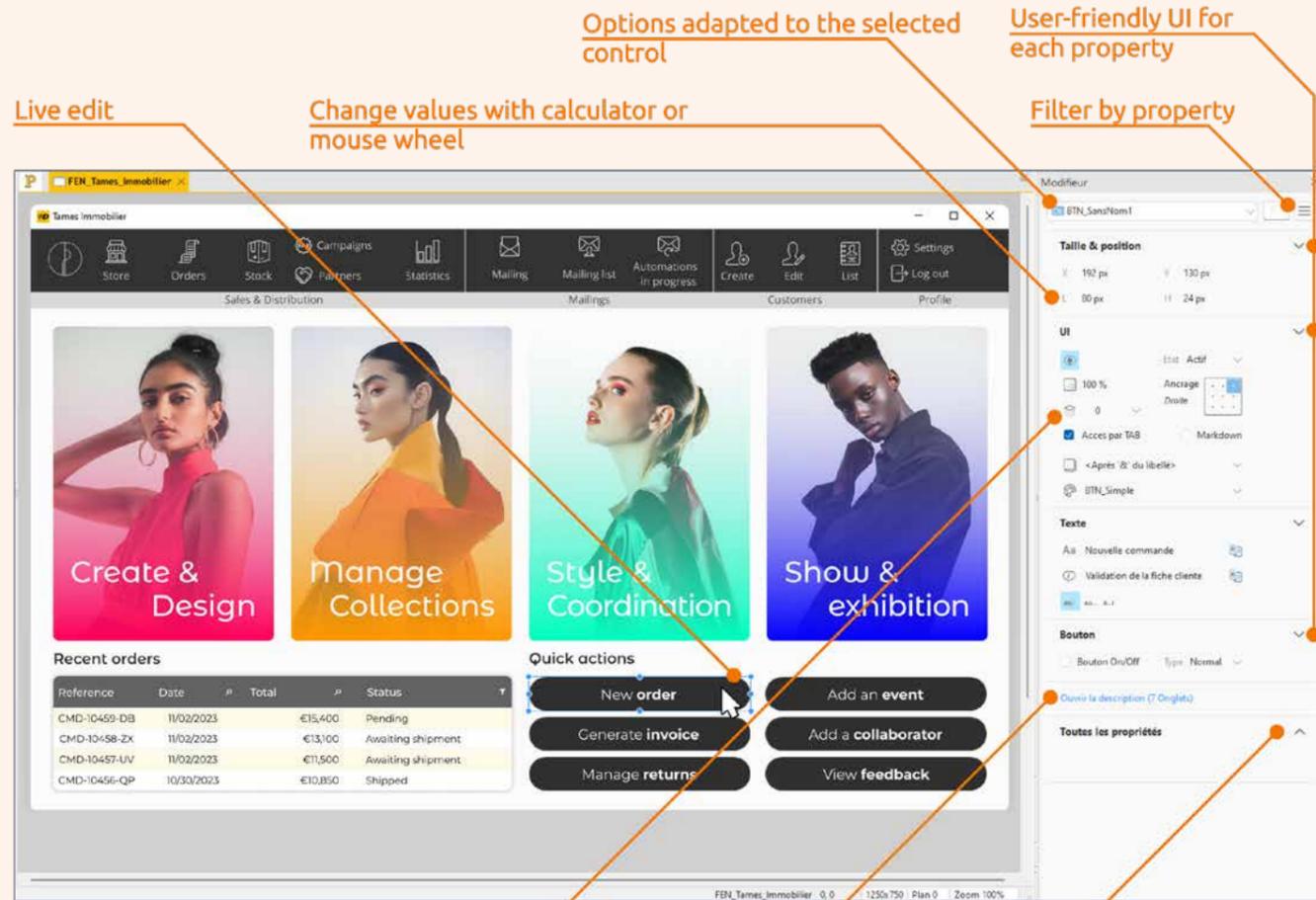
This also applies to WEBDEV and WINDEV Mobile.

You can use components from previous versions with applications in version 2025.

IDEs in version 2025 directly open projects from previous versions.

You can have different versions of your environments on your PC. With a license for version 2025, you can also launch previous versions.

ENVIRONMENT NEW MODIFIER



The pane can be moved, resized or displayed on a second screen

7-tab window options

Collapsed properties

062 New feature WD WB WM MODIFIER UX ADAPTS TO THE CONTROL TYPE

The new modifier will instantly become an essential tool in your workflow.

This new pane offers a smart, user-friendly view of the properties of the current window, page, control or group of controls.

Properties are sorted by relevance, according to the control.

Each property is represented visually, providing a much better user experience.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Most relevant properties at the top of the list

063 New feature WD WB WM UNIVERSAL MODIFIER

The new modifier is available for all elements:

- control
- window
- page
- report

The layout adapts to each element, while maintaining overall coherence.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
One modifier to rule them all

064 New feature WD WB WM CHANGES IN REAL-TIME

Changes made in the new modifier are immediately reflected in the current element.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
See changes in real time

ENVIRONMENT CONTROL CREATION PANE

065 New WD WB WM RIBBONS ARE GOOD, BUT PANES ARE BETTER

The ribbon contains all available controls.

With so many controls to choose from, it can become difficult to find your way around.

In version 2025, a new control creation pane allows you to easily create the controls you need.

Of course, the ribbon is still available.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Better UX

066 New WD WB WM NEW LAYOUT

The new pane offers a much clearer layout.

Controls are grouped by categories.

Each control is presented in a thumbnail.

The pane can be positioned on the right or left of the environment, or can be undocked.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Practical, yet powerful

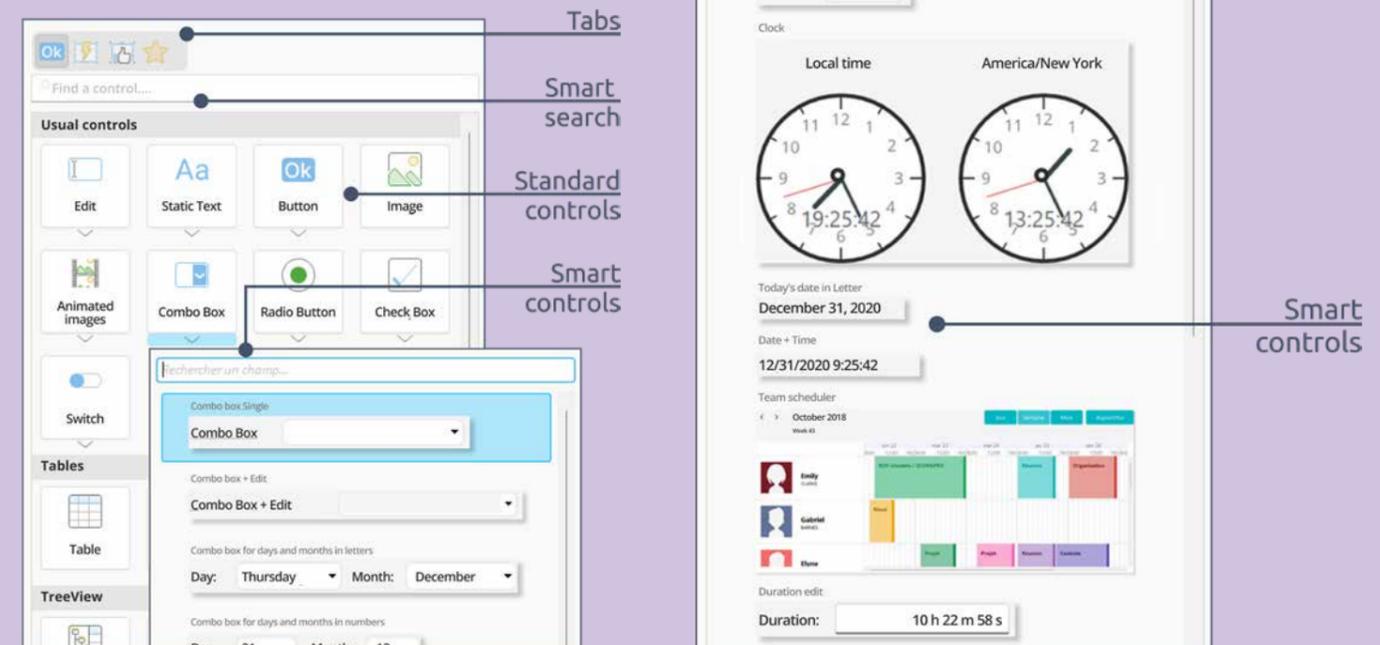
067 New WD WB WM FEATURES

The control creation pane contains a number of smart and essential features:

- Intuitive search mode that filters results as you type one or more keywords (Example: Date, date combo, time input, etc.)
- Preset controls
- Favorite controls
- Smart controls

You can position the pane at the top, bottom, on a 2nd screen, etc.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Find the exact control you want, within seconds





...Continued from page 15

- New blocker incident
- Resolution and archiving of an incident
- Incident changed to blocker
- Incident changed to non-blocker
- Reassignment or reopening of an incident
- Request for more information about an incident
- Incident changed to "Won't fix"
- New workaround for an incident
- Workaround modified
- Incident moved to another set
- Incident changed to another type
- Incident moved to another sprint
- Cancellation of a task associated with a requirement
- Requirement associated with a sprint
- etc.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Fine-tune notifications

068 New feature WD WB WM MISCELLANEOUS

- New incident ticket status: Fixed and retested
- Ability to send a notification to all contributors of a requirement
- Ability to delete a project and all its dependencies.

TECHNICAL AND FUNCTIONAL DOCUMENTATION

069 New feature WD WB WM SOFTWARE INVENTORY (SBOM)

An SBOM (Software Bill Of Materials) is a comprehensive list of all the software components and their dependencies in an application.

You can now edit this list in the auto-generated technical

documentation.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Inventories made easy

SOFTWARE FACTORY: CONTINUOUS INTEGRATION

070 New feature WD WB WM MIGRATE NON-SCM PROJECTS

The Software Factory now enables you to request the migration of a project that is not hosted in the SCM. A new action has been added for this purpose: Migration of a project on disk.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Less actions required

New feature WD WB WM

071 to 075 MISCELLANEOUS

- Ability to change the order of action plan parameters
- New action to generate a test library
- Ability to set an SCM database password
- New parameter for specifying a check-in comment
- New action to add a project to the SCM database

USER GROUPWARE: PASSWORD PROTECTION

076 New feature WD WB WM EXPOSE USER ACCOUNTS USING AN OAUTH SERVER

User Groupware (GPU) accounts can be integrated into the OAuth server provided with version 2025. This allows third-party applications to use GPU accounts for authentication.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Seamless authentication

GIT / GITHUB / GITLAB



077 New feature WD WB WM GIT: PROPERTIES IN TEXT FORMAT

New properties available in text format:

- Caption
- Image
- Visibility
-

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Less actions

078 New feature WD WB WM VIEW THE HISTORY OF CHANGES MADE TO AN ELEMENT DIRECTLY IN THE ENVIRONMENT

In version 2025, you can see the list of successive versions of an element and compare their differences directly from the environment.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Less actions

IMAGE EDITOR

079 New feature WD WB WM BUILT-IN IMAGE EDITOR: IMPROVED PERFORMANCE

The image editor built into the environment benefits from major performance improvements. Modifications are much faster and smoother.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
A more powerful image editor for developers

WDMMSG AUTOMATIC TRANSLATION



080 New feature WD WB WM FASTER EXTRACTION OF TEXT TO TRANSLATE

In version 2025, if a project is hosted in the SCM, the text from its windows, pages, code, etc., is extracted much faster. This operation can be up to 2 times faster.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Faster is always better

SCM - COLLABORATIVE SOURCE CODE MANAGER

081 New feature WD WB WM ADDITION OF AN ITEM WITH THE SAME NAME AS A PREVIOUSLY DELETED ITEM IN THE SCM DATABASE

When an element is deleted from the SCM, it remains in the history. Later, sometimes much later, you create a new element using the same name as the previously deleted element.

When this happens, the SCM now offers you two options:

- restore the old element
- use this name for the new element.

This is a much more practical approach, compared to previous versions.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
A choice right when you need it

082 New feature WD WB WM NEW OPTION: CLOSE ALL NON-CHECKED OUT DOCUMENTS

Often, when browsing through a project, you open different elements to view them, then leave them open. This visually loads the open documents bar. In version 2025, a new option allows you to close all documents that have been opened but not checked out.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Clean up the editor in one click

083 New feature WD WB WM ELIMINATE FALSE POSITIVES

When a team uses the SCM, each developer regularly checks their changes back into the project repository. When another developer checks out these resources, the SCM displays a list containing all the modified elements. This list also contains the elements in which only the internal structure of objects has been modified. In version 2025, you can choose not to view these elements, which cleans up the list. The branch merge also features this type of list.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
See only the changes you care about

084 New feature WD WB WM FASTER DELETION OF BRANCHES AND DIRECTORIES

The SCM uses its own database to manage project repositories. This database format evolves regularly, in particular to improve performance and functionality. It is therefore recommended to migrate this database every year. Simply click "Migrate to the latest format" in the "Tools" tab of the SCM administrator. This option completes the migration process without affecting your workflow. We strongly advise you to update this database. Note that the SCM remains compatible with all versions of the environment. For example, the database format in version 2025 allows for faster deletion of branches and directories.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Smooth operation

085 New feature WD WB WM VIEW PROJECT SHARES

In version 2025, a new option displays a list of all projects (hosted in the same SCM) with which the current project shares elements. The list shows both the names of the projects and the names of the shared elements. This makes it possible to identify projects that may be affected if changes are made to one of these elements.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Get a better view

086 New feature WD WB WM LIST OF CHECKED-OUT ELEMENTS IN 1 CLICK

The SCM can display a list of checked-out elements that also indicates the developer that checked them out. This option is now available directly in the ribbon.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Easier access to a useful feature

087 New feature WD WB WM SCM: MISCELLANEOUS

- The element check-in UI is now the same, whether you are checking in one or multiple elements
- Option to automatically compile the project when retrieving elements.

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 2025, the SCM database format is updated by the SCM administrator. Visit www.scmdrive.com

CODE EDITOR

088 New feature WD WB WM • CODE EDITOR: SMOOTHER ACTIONS

The code editor in version 2025 will exceed the expectations of all developers. All actions are now faster and smoother, regardless of the size of the code.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Better UX

Continues page 22...

WINDEV[®] Suite SaaS

PC SOFT is proud to introduce WINDEV Suite SaaS.

This SaaS version is the combination of the 3 environments.

All the new features presented in this document are available in the SaaS version of WINDEV, WEBDEV and WINDEV Mobile.

Other new features will be added to the SaaS version over the course of the year. Unlike the legacy version, you don't have to wait until the end of the year to benefit from the new features. This is one of the major advantages of the SaaS version.

8 ADVANTAGES OF SAAS VERSION

1. You're always up to date, and benefit from hundreds of exclusive new features all year round
2. You can still use your old versions to maintain your projects
3. No USB ports required
4. No dongles required
5. Ability to work offline
6. Available on Windows ARM, TSE and Windows VM (Linux, Mac, Azure, VMWARE, etc.)
7. Monthly billing available, for clearer budgets
8. 3-year subscription available, avoiding multiple purchase orders and forms

To learn more, visit WINDEV.COM/SAAS, or contact PC SOFT or your local distributor.

Note: "SaaS" refers to how you log in to the IDE. You don't have to change any of your habits. Simply develop your projects as usual, but without a dongle!



089 New feature WD WB WM
MULTICURSOR: EDIT MULTIPLE LINES IN A SINGLE OPERATION

```
caption| is string
description| is string
number| is int
```

The tooltip contains clickable options and useful info

```
caption_product| is string
description_product| is string
number_product| is int
```

3 lines added at the same time

Version 2025 introduces a powerful feature in the code editor. Multicursor allows you to perform the same operation simultaneously at all cursor positions. For example :

- insert text in several places at once
- rename several occurrences in a single operation

Operations are performed using shortcut keys: Use Ctrl+Alt+Click to place cursors on a line.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
 Less actions required

090 New feature WD WB WM
STICKY HEADER NEVER GET LOST AGAIN

Global procedure ModifyOrder

```
PROCEDURE ModifyOrder (LOCAL order_number is int)
IF loggedin_customer THEN
  IF order_confirmed THEN
    IF order_sent THEN
      // The order has been confirmed and sent
      // Check whether the customer received the
      let order_received = check_received(order
    IF order_received THEN
      // ...
```

Note the procedure code pinned at the top of the window. This area contains the headers of each block

Sticky headers are very handy when the code overflows the working area and involves nesting. Here's how it works: As you scroll down, the first line of each block remains displayed at the top of the editor. Clicking any of the pinned lines takes you directly to the corresponding code. If necessary, you can disable this feature.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
 The context is always visible

091 New feature WD WB WM
VIEW ALL EVENTS AND HIDE EMPTY EVENTS IN 1 CLICK

The code editor in version 2025 lets you edit all window, page or reports events and their controls in a single code window, with just 1 click. This options provides a comprehensive overview of the code. To avoid overloading the editor, events that contain no code are not displayed. While in this mode, you can edit the code as usual.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
 Free up space

092 New feature WD WB WM
INDENT GUIDES

```
// Iterate over customers that placed a
FOR EACH loggedin_customer
  // If the order is being processed
  IF order_confirmed THEN
    //...
    IF order_sent THEN
      let order_received = check_
      IF order_received THEN
        FOR EACH product OF ord
          //...
          //...
        END
      END
    END
  END
END
```

Note the fine lines representing the blocks of code

This new feature lets you easily identify each block of code, reducing mental workload and making for a smoother user experience. A fine line is all it takes.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
 Less risk of errors

093 New feature WD WB WM
SYNTAX HIGHLIGHTING & TYPE OF ELEMENT IN CODE SUGGESTIONS

```
End of initialization of WIN_Login (WIN_L...
Global declarations of WIN_Login
sPassword is string
sPassword = passw
Request for
Close a child
EDT_Password
ResetPassword
sPassword
GeneratePassword
gpwCheckPassword
gpwResetPassword
```

Code suggestions are also highlighted

The elements displayed in the code suggestions use the same syntax highlighting as the code. The code suggestions popup has been improved in version 2025. The type of element is shown next to each suggestion: Control, string, int, real, boolean, etc.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
 Essential information at a glance

094 New feature WD WB WM
100,000 CHARACTER-LONG LINE OF CODE

At some point, every developer has just wished they could paste large content, like a JSON description, directly into a line of code. In version 2025, the code editor supports lines of code of up to 100,000 characters.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
 Yes, 100,000!

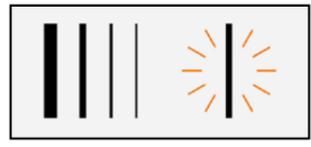
095 New feature WD WB WM
DELETE TRAILING SPACES AND TABS

It is very common to leave trailing space or TAB characters at the end of lines of code. In version 2025, the code editor automatically removes these unwanted characters.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
 Cleaner code by default

096 New feature WD WB WM
SET CURSOR THICKNESS & BLINK RATE

It may seem like a small detail, but many developers have their preferences when it comes to the cursor in the code editor. In version 2025, it is now possible to set the cursor thickness, and its blink rate.



BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
 Total customization

097 New feature WD WB WM
FASTER MINIMAP

In version 2025, the minimap (small preview in the scrollbar) is much faster, making for a smoother user experience.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
 Fly through your code

WEB SERVICES: 2.5 OR 10 TIMES FASTER



098 New feature WD WB WM
SOAP & REST WEB SERVICES

WINDEV and WEBDEV 2025 make it easy to create web services that can be used by both proprietary and third-party applications and websites. These web services can be hosted on Windows or Linux. In version 2025, web services are significantly faster.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
 Better web services and microservices

For instance, a web service used simultaneously by multiple clients is on average 10 times faster than in previous versions. Note that you are free to disable this optimization mode, if you prefer to keep using the mode available in the previous version.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
 Compile your project in version 2025 for 10x faster web service calls

099 New feature WD WB WM
WEB SERVICES AND HIGH LOADS WITH SIMULTANEOUS CALLS: 10 TIMES FASTER

In version 2025, web services perform better under high loads. For example, database connections are preserved and no longer reopened with each call. Processes have also been optimized.

100 New WD WB WM
WEB SERVICES AND HIGH LOADS WITH SEQUENTIAL CALLS: 2.5 TIMES FASTER

Sequential web service calls have also been optimized. Calls are 2.5 times faster.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
 Compile your project in version 2025 for 2.5x faster web service calls

"Pascal Case", "snake_case": SWITCH BETWEEN VARIABLE NAMING CONVENTIONS IN 1 CLICK



There are several popular variable naming conventions.

Two of the most common are:

Pascal Case: The first letter of each word is capitalized.

Example: CustomerName

Snake case: All lowercase, words separated by a underscore.

Example: customer_name

In version 2025, you can switch from one naming convention to another.

You can apply changes to

- the current element
- all elements of current process (local variables only)
- all the project elements.

One way of taking advantage of this new feature is to use one convention for local variables and the other for global variables. This makes it very easy to identify variables at a glance.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Readability and practicality

New feature WD WB WM

102 to 107 MISCELLANEOUS

- Shift + Mouse wheel for horizontal navigation
- Ctrl+ ^ sets the position at the beginning of the block of code. (Example: Go to IF in an "IF ...THEN... ELSE" block)
- CTRL + D (D for duplicate) also works on a selection
- Name of the event displayed in the open documents bar
- Option to disable parameter tooltips
- Selection preserved when the editor regains focus

DEBUGGER

New feature WD WB WM

108 AUTO RUN RTPP IF THE CODE TO BE DEBUGGED CONTAINS THREADS

RTPP stands for Real Time Performance Profiler. This tool allows you to view and debug the activity of different threads at runtime. If the code to be debugged contains threads, an RTPP pane opens automatically to facilitate debugging.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

A valuable debugging tool when you need it

New feature WD WB WM

109 FREEZE & UNFREEZE ONE OR MORE THREADS

In version 2025, the debugger lets you temporarily block the execution of threads of your choice.

For example, this avoids interrupting a step-by-step execution of your code.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Fine-tune your debugging process

DEVOPS

New feature WD WB WM

110 INTEGRATED DEVOPS ENVIRONMENT

WINDEV, WEBDEV and WINDEV Mobile, along with WINDEV Suite (SaaS) version 2025, form an increasingly cohesive DevOps environment.

You benefit from all the necessary functionalities to implement the DevOps approach: no more scattered, barely-compatible tools.

You have all the integrated tools to manage the DevOps methodology: lifecycle management, sprints, testing, continuous integration, deployment, continuous delivery, production, user feedback, and more.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Integrated and open to all methodologies

REPORT EDITOR

111 SIDE-BY-SIDE PAGE PREVIEW

In version 2025, you can view recto/verso pages side by side. Regardless of the available space, two pages will be displayed. You can indicate that the first page is a cover page.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Intuitive display mode

112 DIFFERENT MARGINS FOR ODD & EVEN PAGES

In version 2025, the Report Editor lets you specify different values for odd and even pages.

This is particularly useful for bound documents or documents stored in physical folders.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Advanced layout option

113 DIFFERENT RECTO & VERSO SIDES

In version 2025, you can print a document containing two different reports. A common case would be an invoice on one side, and the general terms and conditions on the other.

See new feature 230

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

The right to be different

114 REPORT EDITOR: MISCELLANEOUS

- Page number set by default for each new report created
- UI audit: If the report contains a table that does not have a Total column, a UI error is generated.

ARTIFICIAL INTELLIGENCE



115 WLANGUAGE SOURCE CODE GENERATION

Version 2025 features AI-powered code generation.

See new feature 001

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

New, yet essential technology

The ● icon indicates that the new feature is already available in the SaaS version released in June.

PCSCLOUD.NET DEDICATED CLOUD SOLUTION

PCSCLOUD.NET: A CLOUD TO DEVELOP AND DEPLOY YOUR PROJECTS. A DEDICATED VIRTUAL MACHINE AT YOUR SERVICE.

APPLICATIONS

- WEBDEV Application Server to host WEBDEV websites
- Cluster of WEBDEV Application Servers
- WEBDEV Application Server to provide web services
- SaaS platform
- Your own Private Store for your

WINDEV and WINDEV Mobile applications

TELEMETRY

- Telemetry platform

DATA

- HFSQL server to access data-bases.
- HFSQL Spare, to set up HFSQL backup servers
- Universal data replication server
- Mobile User Groupware

DEVELOPMENT ENVIRONMENT

Project Virtualization Platform: private SCM, Control Centers, Dictionaries.

SCMDRIVE, HFSQLDRIVE AND WEBDEVDRIVE are purpose-built cloud solutions:

- for SCM data sharing
- for hosting HFSQL databases
- for website hosting

PASSWORD VAULT IN YOUR WLANGUAGE CODE

NO MORE READABLE PASSWORDS IN THE CODE

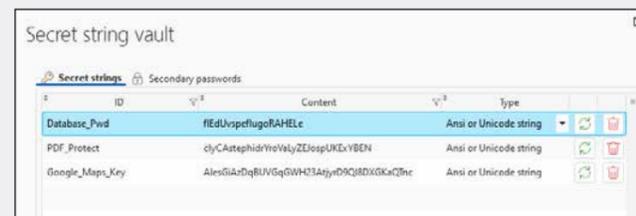
116 New feature WD WB WM SECURE PASSWORD HANDLING IN THE CODE

```
DatabaseConnection is Connection
// Connection description
DatabaseConnection.User = User
DatabaseConnection.Server = Server
DatabaseConnection.Database = Database
DatabaseConnection.Provider = hAccessHClientServer

// Password - Caution! This password is confidential and must not be
DatabaseConnection.Password = "xdW5...28f...38-f"

// Open connection
IOpenConnection(DatabaseConnection)
```

The vault itself is password-protected. Each secret string is associated with an identifier and a description. In the source code, simply use this identifier. All project developers can use this identifier.



Secure editing of secret strings

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Protect your passwords automatically

Passwords, private keys and tokens are often used in programming. Some examples include:

- database connection password
- data file (table) password
- email account password
- OAuth token
- spreadsheet password
- Word document password

For obvious security reasons, these elements should not be left unencrypted in the source code.

To avoid the need to set up personal or third-party security mechanisms, version 2025 comes with a password vault containing secret string vaults as standard.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Automatic security

117 New feature WD WB WM A PASSWORD VAULT FOR YOUR PROJECT

This powerful tool works in a simple way. From version 2025 onwards, the project allows you to save passwords (secret strings) in a vault integrated into the project.

You can also create a vault within a set of procedures, which is useful if you need to share a vault.

118 New feature WD WB WM USE IN WLANGUAGE

Secret strings are very easy to use in WLanguage. In the code, simply use the identifier defined in the vault. To pass this value securely to a procedure, use the new **Secret-String** WLanguage type.

```
DBConnection is Connection
DBPassword is SecretString = DB_Password
DBConnection.Password = DBPassword
```

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
As easy as it gets

119 New feature WD WB WM BUILT-IN PROTECTION

In debug and trace mode, secret strings will never be visible. Functions that display readable content (e.g., **Info**) have no effect. In practical terms, it is impossible to retrieve the contents of a variable of type **SecretString**.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
We've got you covered

120 New feature WD WB WM TOTAL AUTOMATION

No manual actions required, no files to load, no parameters to define. When you use a password vault, it's automatically loaded with the executable.

Yet another advantage of WINDEV's total integration.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Effortless security

121 New feature WD WB WM MULTIPLE VAULT PASSWORDS

The vault itself is password-protected.

You can create several passwords to access the same vault.

There are 2 password levels:

- master password
- secondary password

For example, the project manager can hold the master password, and create a secondary password for each developer who is authorized to create or modify passwords.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
A truly secure vault

122 New feature WD WB WM DETECT PLAIN TEXT PASSWORDS

In version 2025, plain-text passwords in the code are detected and generate a warning at compile time.

This check can be enabled in the compiler options.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
No stone left unturned

3 EXAMPLES OF PASSWORDS IN THE PASSWORD VAULT

WLanguage code (without vault)	WLanguage code (with vault)	Vault
<code>HPass(Customer, "Snoopy28")</code>	<code>HPass(Customer, Customer_password)</code>	<code>Customer_password = Snoopy28</code>
<code>GglGetStaticMap("sQdf548erE4546dv", ...)</code>	<code>GglGetStaticMap(Google_key, ...)</code>	<code>Google_key = sQdf548erE4546dv</code>
<code>OAuth.ClientSecret="4uBiZ5B7f7yTk9"</code>	<code>OAuth.ClientSecret= OAuth_Dropbox</code>	<code>Oauth_Dropbox = 4uBiZ5B7f7yTk9</code>

XML

150 New feature WD WB WM XML ARRAYS SERIALIZED AS A SEQUENCE OF ELEMENTS

XML data exchanges often involve arrays serialized as sequences of elements.
Version 2025 automatically deserializes XML files in this format.
You can also serialize an array as a sequence of elements.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
More possibilities

151 New feature WD WB WM • ABILITY TO CREATE EMPTY NODES

Some web services expect an empty node in the XML document structure.
It is now possible to easily create this type of node in WLanguage.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Adapt to any web service

152 New feature WD WB WM REFRESH XML DESCRIPTIONS DIRECTLY IN THE ENVIRONMENT

You can now refresh an XML description that has already been loaded in the environment.
This is particularly useful if the description has been modified while the environment is being used.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Descriptions always up to date

OBJECT-ORIENTED PROGRAMMING

153 New feature WD WB WM DOWNCAST OPERATOR

The cast operator can be used to convert a base class to a derived class without using a local variable.
Example:

```
my_vehicle is CVehicle  
((CElectricCar)my_vehicle).get_range()
```

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Practicality

154 New feature WD WB WM PASS A METHOD TO AN API CALLBACK

It's now possible to pass a method from a class instance to an external API.
It's no longer necessary to use a global procedure and variable, which simplifies the code.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Cleaner code

COMPATIBILITY WITH THIRD-PARTY LANGUAGES

155 New feature WD WB WM CALLING WLANGUAGE CODE FROM C++

You can call WLanguage code from many third-party languages, including C++. In version 2025, WLanguage functions that accept points or rectangles as parameters are now supported.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Higher compatibility

Continues page 34...



ELECTRONIC SIGNATURE



156 New WD WB WM INTEGRATE YOUSIGN INTO YOUR APPLICATIONS

With WINDEV 2025, your applications can easily integrate Yousign solutions.
These electronic signature functionalities comply with European regulations (eIDAS).

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
An alternative to DocuSign

- Send one or more documents to Yousign, to n recipients (name, email, telephone number, etc.), for signature, notification or approval
- Define the location of the signature in the document
- Find out if a document is signed, and who hasn't signed it
- Get signing dates/times
- Retrieve signed documents
- Cancel operations.

All aspects of verification, emailing, ID verification and document storage are fully handled by the service provider (Yousign).

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Streamline the signing process

157 New WD WB WM THREE TYPES OF ELECTRONIC SIGNATURES

All three types of electronic signature are supported:

- Simple Electronic Signature (SES)
- Advanced Electronic Signature (AES)
- Qualified Electronic Signature (QES)

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Choose the most suitable level of security

160 New feature WD WB WM CODE GENERATION WIZARD

To simplify development, an intuitive wizard generates the necessary code.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Easier implementation

158 New WD WB WM APPROVER MODE

Yousign includes a useful mode called "Approver". This mode enables one or more recipients, not necessarily signers, to approve a document before signing it. This can be a legal or technical approval, for example.
This feature is natively supported in version 2025.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Make the most of Yousign features

161 New feature WD WB WM ACCESS TO ALL APIS

To handle special cases, all the APIs provided by Yousign can be accessed via a WLanguage call.
All entry points are available directly in the code editor.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
No limits

159 New feature WD WB WM EASY-TO-USE FUNCTIONS

WLanguage functions are available in the form of an Internal Component, with their source code.

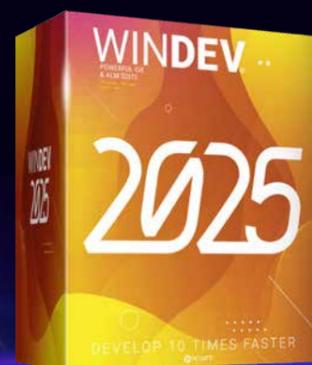
The functions allow you to:

- Set the signature level

162 New feature WD WB WM BILLING

Yousign offers several types of subscription, giving access to different types of signatures.
To access all the capabilities of APIs, you need to choose an API subscription.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Select the best option for you



HFSQL DATABASE

HFSQL®

163 New feature WD WB WM • OPEN DATA FILES (TABLES) FASTER WHEN SERVER LOAD INCREASES

When an HFSQL server is very busy, a new cache management system improves the data file (table) opening times.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Precious time saved

164 New feature WD WB WM ONE SINGLE PORT FOR SERVER REPLICATION

In version 2025, it is no longer necessary to open ports on each replication server.

You only need to open one communication port.

For example, for replication between LAN and an external address, it is no longer necessary to open the LAN port to allow incoming data.

This results in increased security.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Security

165 New feature WD WB WM • UNIVERSAL REPLICATION: 4 NEW FEATURES

Version 2025 introduces 4 new features for Universal Replication:

- Ability to add data files (tables) to an existing universal replication (without having to create a new universal replication)
- Automatically transform 4-byte to 8-byte IDs, with automatic propagation of changes to replicated files
- Unique keys can now be added and deleted automatically
- Ability to reorder unique keys in the data structure.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Even more power

166 New feature WD WB WM COPY AND SAVE ANONYMIZED OR PSEUDONYMIZED FILES

HFSQL lets you automatically implement data file (table) anonymization and pseudonymization.

HFSQL 2025 makes it easy to make copies and backups of these anonymized or pseudonymized files, even if you do not have the rights to read the original data.

In this case, the copied file will contain anonymized or pseudonymized data.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
No sensitive data leaks during backups, statistics, etc.

167 New feature WD WB WM AUTOMATIC BACKUP UPLOAD

HFSQL allows you to set up periodic automatic backups. Version 2025 can be configured to automatically upload backups to a remote server.

Backup can be performed using a network path or SFTP.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Great feature in production environments

168 New feature WD WB WM DATABASE BACKUP: UNLIMITED FILES

Older versions of HFSQL limited the number of files in a backup to 65,000.

This is no longer the case in version 2025. You can now include an unlimited number of files in your backups.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
To infinity and beyond

169 New feature WD WB WM DOCKER HFSQL / PODMAN



Podman is a Docker-like container management tool. Podman is highly compatible with Docker, and allows you to run certain Docker images.

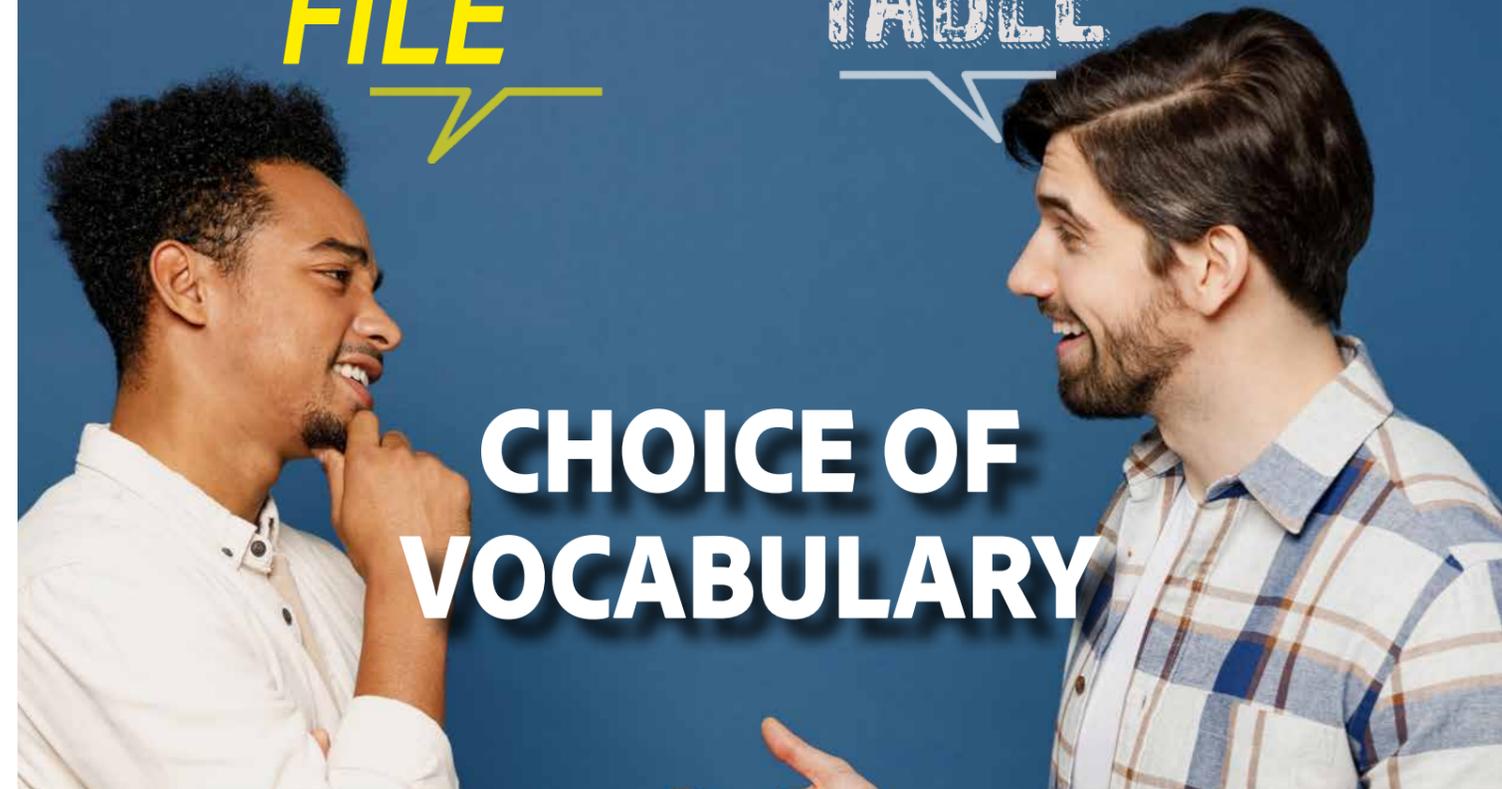
In version 2025, Docker HFSQL images can be run in Podman.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
More possibilities

Continues page 36...

FILE

TABLE



CHOICE OF VOCABULARY

WHICH DO YOU PREFER: TABLE OR FILE?

Over time, WINDEV has developed its own vocabulary. In version 2025, you can select the vocabulary you wish to use. The most typical example in the context of databases is "data file", which is often referred to as "table".

170 New WD WB WM YOU CHOOSE

Some proprietary terms can now be replaced by more generic terms.

Here are a few examples:

File	Table
Analysis	Data schema
Skin template	Theme

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Pick your favorite!

171 New WD WB WM HELP WITHIN THE ENVIRONMENT

The environment provides an option for selecting the preferred vocabulary.

The environment then adapts to the selected vocabulary and adjusts input suggestions, the terms used in the 7-tab windows, etc. WLanguage allows you to code with the vocabulary of your choice (see new feature 172).

The help system also uses the chosen vocabulary.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Your preferred vocabulary across the environment

172 New WD WB WM VOCABULARY IN WLANGUAGE

WLanguage functions also adapt to your chosen vocabulary! Terms are interchangeable and can be mixed in the same project. Examples of synonymous functions:

HListFile	HListTable
ScreenToFile	WindowToTable
FileToScreen	TableToWindow
BuildBrowsingTable	TableBuildDataBinding
HOpenAnalysis	HOpenDataSchema
ChangeSkinTemplate	ChangeTheme

Properties:

..FileLink	..DataBinding
..BrowsedFile	..BrowsedTable

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Your preferences are applied everywhere, even in WLanguage

173 New feature WD WB WM STRUCTURE COMPATIBILITY CHECK DURING AUTOMATIC MODIFICATION

The automatic modification of data files now includes an additional check.

This process identifies and highlights compatibility issues that may affect applications, by comparing the data schema of the installed version and the version to be propagated. This issues include:

- deleted item
- item of a different type
- renamed item
- etc.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Advanced security feature

New feature WD WB WM

174 to 177 MISCELLANEOUS

- **HImportCSV** function to import CSV files (clone function of **HImportText**)
- The **hTransactionList** function has been optimized
- The **hLSTSorted** constant used by the **hListFile** function is available in Client/Server mode
- **h.TriggerFunction** now also returns constants, not only strings.

SQL FUNCTIONS

178 New feature WD WB WM USE FUNCTIONS WITH PARAMETERS IN ORDER BY CLAUSES

In version 2025, the SQL **ORDER BY** clause takes as parameters functions that take parameters themselves.

For example, you can use a spatial function to calculate distances, and then sort data passing these distances as parameters.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Additional parameters

New feature WD WB WM

179 to 180 2 NEW SQL FUNCTIONS

2 new SQL functions are introduced in version 2025.

ST_Centroid	Returns the center of mass of a geometry.
TIMEDIFF	Returns the differences between two times.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

More SQL programming possibilities

HFSQL®

HFSQLDRIVE: YOUR HFSQL DATABASES IN THE CLOUD IN 3 CLICKS

HFSQLDrive lets you easily and immediately host your databases (your 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

181 New feature WD WB WM AUTOMATIC RESTART

Sometimes, clusters systems stop unexpectedly.

For example, this may be due to a network problem which results in a cluster node being disconnected from more than half of the other nodes.

Another example is a scenario where a complete cluster is shut down for hardware reasons, but after the shutdown, the cluster does not wait for a manual intervention to designate the master.

Now, in the event of an unexpected shutdown, the cluster is automatically restarted.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Higher availability

182 New feature WD WB WM CONNECTION OF CLIENT APPLICATIONS TO THE CLUSTER

In version 2025, client applications always connect to the cluster at the same speed, whatever the status of the cluster nodes.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Consistency

183 New feature WD WB WM 5X FASTER RESYNCHRONIZATION AFTER NODE SHUTDOWN

In version 2025, resynchronization of a stopped node is on average 5 times faster.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Precious time in production environments

184 New feature WD WB WM COPY DATABASE TO CLUSTER

In version 2025, you can copy a database or data file (table) directly to a cluster from the HFSQL Control Center.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Practicality

185 New feature WD WB WM WLANGUAGE FUNCTIONS

The **hDeleteFile** WLanguage function is now available for HFSQL cluster.

No need to stop the cluster to clean up unused files.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

More programming possibilities

New feature WD WB WM

186 to 188 MISCELLANEOUS

- Ability to enable notifications on each node.
- Improved synchronization of nodes with one or more transactions in progress.
- Improved troubleshooters.

HFSQL SPARE

189 New feature WD WB WM NEW WLANGUAGE FUNCTION: HENABLESPARE

The new **hEnableSpare** WLanguage function can be used to transform a Spare server (slave) to a Master server.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

One function takes care of everything



HFSQL CONTROL CENTER

190 New feature WD WB WM VIEW SCHEDULED TASK EXECUTION REPORTS & MORE IN THE CONTROL CENTER

In version 2025, the HFSQL Control Center includes a highly anticipated feature.

Now, you can view status reports and execution history directly in the Control Center. This includes:

- scheduled tasks
- scheduled stored procedures
- scheduled backups
- scheduled update of materialized views.

No need to delve into log files!

Note that the `hListSchedulingHistory` WLanguage function can be used to retrieve these reports programmatically.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Essential information at a glance

191 New feature WD WB WM IMPORT DATABASES INTO A CLUSTER

You can now import a database into a cluster directly from the Control Center.

No additional programming required.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Time savings

New feature WD WB WM

192 to 194 MISCELLANEOUS

- Improved user logout UI
- Ability to manually refresh a materialized view
- Ability to edit schedules of materialized view updates

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 (binding, etc.). They are even better in version 2025.

195 New feature WD WB WM MYSQL: UTF8MB4 SUPPORT



utf8mb4 is an extended version of UTF8 that uses 4 bytes to store each Unicode character.

This makes it possible to use characters such as emojis and certain Chinese ideograms.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Better for internationalization

196 New feature WD WB WM MYSQL 9.1.0

MySQL 9.1.0 is now supported.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Even more compatibility

197 New feature WD WB WM MISCELLANEOUS

- You can query third-party databases without opening the connection programmatically. The connection will be



2025 THE SPICIEST VERSION!

automatically opened. In version 2025, this connection remains open to save time on the next query executed on that database.

VISUAL QUERY EDITOR

198 New feature WD WB WM • SELECT INSERT COMMANDS

The query editor now lets you insert a `SELECT` command into an `INSERT` query.

This makes possible to insert multiple records in a single operation.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Flexibility

199 New feature WD WB WM • EDIT SQL QUERIES WRITTEN IN THE CODE USING THE VISUAL QUERY EDITOR

You can write SQL queries directly in the code editor.

In version 2025, you can view these queries in the visual query editor.

The code is reverse-engineered to visually represent the query.

You can modify the query in the query editor, and the code will be updated automatically.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Visually modify your queries and update your code

200 New feature WD WB WM • BLUETOOTH LE: BE NOTIFIED WHEN A DEVICE CHARACTERISTIC CHANGES

The new `BTLECharacteristicChangeOfValue` WLanguage function enables or disables detection of changes in the value of a Bluetooth Low Energy (LE) feature. For example, when using a temperature sensor, you can choose whether or not to be notified when the temperature changes.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Notifications only when you need them



BLOCKCHAIN

201 New feature WD WB WM 4 NEW BITCOIN BLOCKCHAIN ACCESS FUNCTIONS

In version 2025, the `Bitcoin` family is enriched with 4 new functions:

`BitcoinCoreDateLastLaunchTime` returns the date Bitcoin Core was last launched, to determine uptime.

`BitcoinCoreConnectionCount` returns the number of connected peers (generally 0 to 10).

`BitcoinCoreUsedDiskSpace` indicates the disk size of the blockchain.

`BitcoinCoreBlockHash` returns the hash of a block by index. The smallest is the oldest.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

More programming possibilities

IOT



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 OS, hardware configuration, most used functionalities, processing times, menu options selected, buttons clicked, bugs, usage times, etc. The metrics tool can be installed on your own servers, or via PCS-CLOUD.NET, which provides a telemetry server.

202 New feature WD WB WM AUTOMATIC VERSION CLEANUP

Most applications have a long lifespan, and after several years, versions start to pile up in the version history. If the metrics tool listed every version, it would be very hard to select the desired version. Now, versions that are rarely used are no longer included in the version selection combo box. This makes it easier to select exactly the version you want. If an older version is used again, it will automatically reappear in the list.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Smarter, cleaner interface

AUTOMATED TESTS

203 New feature WD WB WM • CREATE ENTIRE APPLICATION TESTS

WINDEV's standard test automation is a highly appreciated tool. In version 2025, it becomes an even more comprehensive tool. In version 2025, in addition to creating unit tests, it is now possible to create tests for an entire application, or parts of applications.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
No need to run unit tests one after the other

204 New feature WD WB WM • CREATE TESTS EVEN WITHOUT ACCESS TO SOURCE CODE

You no longer need to own the source code of the application on which you are creating tests. Now, you can generate tests using only the application's executable file. Automated test scripts are generated, but must be run by the owner of the source code. This makes it possible to provide applications to a Quality Assurance team without having to distribute the source code.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Test automation for everyone



MONITORING ROBOT (WATCHDOG)

205 New feature WD WB WM MEASURE RESPONSE TIMES & IDENTIFY SLOWDOWNS

In version 2025, it is possible to specify a maximum test execution time. If this time is exceeded, an error is generated.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Advanced monitoring

206 New feature WD WB WM ONE-TIME OR REGULAR ALERTS

You may receive notifications when a test fails to complete. Depending on the volume of tests, you may receive a large number of notifications, making them difficult to read. In version 2025, for each test, you can choose to be notified:

- each time the test fails
- only the first time the test fails. Then, you will receive a notification when the test completes successfully.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Avoid information overload

207 New feature WD WB WM MISCELLANEOUS

- WLanguage code written in the monitoring robot now uses syntax highlighting

BIG DATA



208 New feature WD WB WM VALKEY SUPPORT

Valkey big data databases are supported in version 2025.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Additional database format supported

WINDEV®

AND MORE IN WINDEV

209 New feature WD THE 208 COMMON NEW FEATURES OF VERSION 2025 ARE AVAILABLE IN WINDEV

WINDEV 2025

gets the 208 common new features of version 2025, including the improved editors, AI coding assistant, palettes, the new Segmented Button control, faster web services, code editor improvements, password vault, the new Pictorial Percentage chart, SCM improvements, new WLanguage and OOP features, and more.

FASTER GRAPHICS ENGINE REDUCED CPU CONSUMPTION

210 New feature WD WB WM USE THE GPU INSTEAD OF THE CPU

In version 2025, the framework's graphics engine adopts new technologies.

As a reminder, the framework's graphics engine handles all aspects of application display and end-user interaction.

It's an important element of the framework and determines both performance and display quality.

Version 2025 now uses the processing power of the graphics card. Today, this type of processing is far more powerful than the main CPU. It also frees up valuable CPU resources.

This technology is based on Direct2D.

All the windows of your applications now load faster.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Task sharing

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Free up Windows resources

212 New feature WD WB WM INTERNAL GRAPHICS ENGINE LEGACY OR MODERN

You can set your preferences either at project level or window by window.

3 graphics engine modes are now available:

- legacy mode
- legacy mode without handles
- Direct2D mode without handles

Note that the legacy mode is enabled by default.

You can change the mode for the entire project, in the project description, or window by window, using the new `WinOptimize` WLanguage function.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

More possibilities

211 New feature WD WB WM NO MORE GDI HANDLES: FREE UP WINDOWS RESOURCES

Another major new feature of the graphics engine version 2025 is the ability to no longer use handles to manage controls.

Now, the greater the number of controls, the greater the performance gains.

Another advantage of this new feature is that the absence of handles frees up Windows resources.

You can choose whether or not to use this technology. The `handle` WLanguage function remains available.

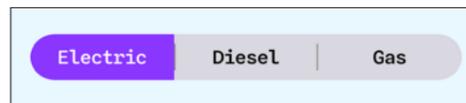
REMINDER: In WINDEV 2025, you also benefit from the common new features presented in pages 3 to 40

NEW CONTROL: SEGMENTED BUTTON

214 New feature WD WB WM NEW SEGMENTED BUTTON CONTROL

The new Segmented Button control allows you to present single or multiple options using a modern design language, and to easily handle user choices.

See new features 242 to 246



BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Modern, user-friendly UI

215 New feature WD WB WM QR CODE WITH A CENTERED LOGO

To generate a QR Code with an embedded logo, simply specify the QR code content, the image to be embedded and its size in the QR Code.

Reminder: Smart controls are provided with their source code, and can therefore be fully modified and customized.



BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Custom QR codes

NEW SMART CONTROLS IN WINDEV 2025

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

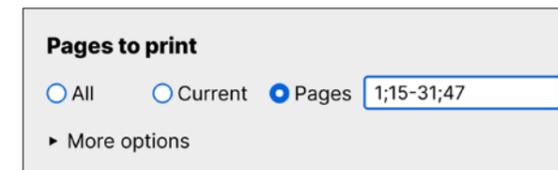
Version 2025 of WINDEV introduces two new Smart controls:

- QR code with a centered logo.
- Page range input.

216 New feature WD WB WM PAGE RANGE INPUT

The new "Page range input" Smart control lets you enter a range of pages in an Edit control.

The most common use case is to enter a range of pages to be printed.



BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

A ready-to-use, popular input mode

PALETTES

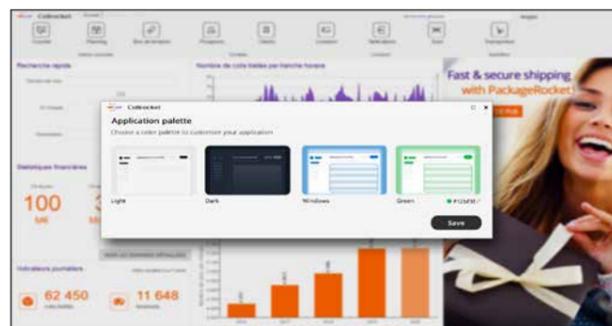
213 New feature WD WB WM STREAMLINE UI DESIGN WITH PALETTES

By using palettes in your applications, you allow end users to switch from light to dark mode, to the dominant Windows color or any other color you allow.

It's a feature much appreciated by end users.

You can programmatically set the background of an administration window to red, to visually separate it from standard windows.

See new features 007 to 023



Example of a real-time palette selection window

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Let the user decide

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 6-inch trunk diameter to print 100,000 copies of a 92-page document on glossy paper. PC SOFT or the printer has 50 trees replanted immediately. Additionally, we mainly use paper pulp coming from wood waste (e.g. sawmills) and forest thinning. Software is also available for download and subscription.



TABLE CONTROL: NEW FEATURES

217 New feature WD WB WM SORT AND FILTER ALL COLUMNS OF A TABLE BOUND TO A DATA FILE

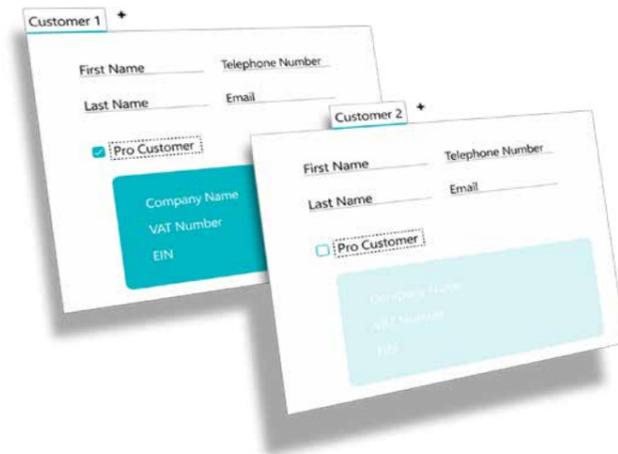
In version 2025, the Table control enables users to sort and filter all columns, including non-indexed columns. See new feature 026

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
An even more powerful control

218 New feature WD WB WM MISCELLANEOUS

- The new `BuildBrowsingTable` WLanguage function offers a new feature that lets you specify whether text memos will be displayed in single-line or multiline format.

And the same Internal Window is often used in several different tabs. Now, when modifying a group of controls programmatically (making the group of controls invisible, for example), you can specify in which pane you want to apply changes, so as not to impact other panes.



Differentiated group of controls

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Simplified code

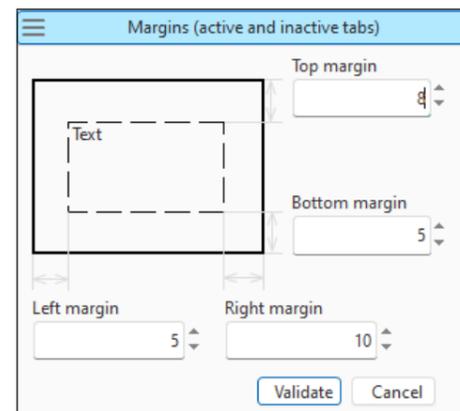
221 New feature WD WB WM TAB CUSTOMIZATION: VECTOR IMAGE + MARGIN

In previous versions, you could customize tabs using an image. In version 2025, you can also customize tabs via the 7-tab window. Regardless of the mode used, tabs are displayed as vector images.



Example of tab images (enlarged image)

You can also define the margins between the different elements in the 7-tab window.



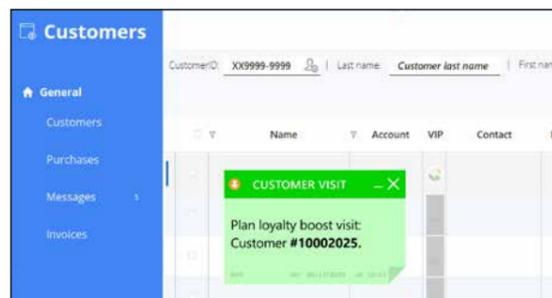
Tab margins

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
More customization options, better UI

NEW FEATURES FOR CONTROLS

219 New feature WD WB WM REDESIGNED REPOSITIONABLE NOTES

Repositionable notes have undergone a major UI overhaul. They now use a much more modern design language.



New repositionable note

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Effortless modern UI

220 New feature WD WB WM PROGRAMMATICALLY CUSTOMIZE A GROUP OF CONTROLS IN EACH TAB PANE

As you know, it's possible to programmatically add tab panes. The content of the pane is an Internal Window. This Internal Window can contain groups of controls.

Apollo skin template

222 New feature WD WB WM NEW SKIN TEMPLATE FOR WINDEV

The new "Apollo" skin template is introduced in version 2025.

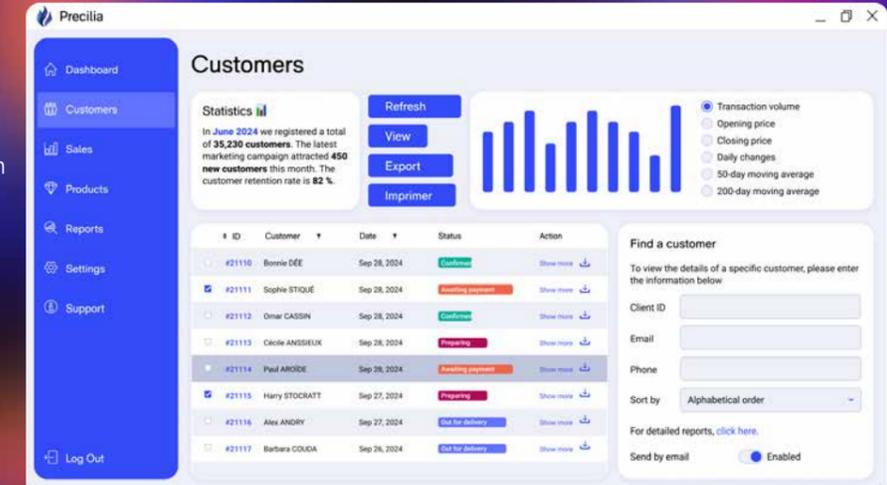
Benefit from new customization possibilities.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Instant new look

You can freely use all the skin templates provided with WINDEV in your applications and software packages.

Don't forget you can apply a palette to change colors, and also create your own skin templates.

WINDEV includes everything you need to create superb UIs.



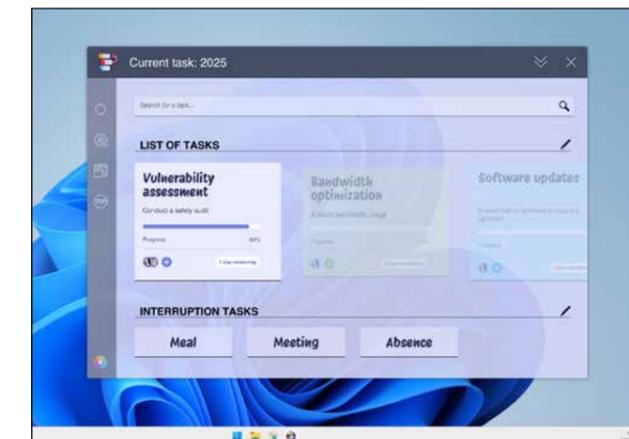
223 New feature WD WB WM POPULATE LOOPERS FROM THE TOP

Now, you can load data from the top of Looper controls. For best performance, the control is populated as the end-user scrolls.

See new feature 432

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
A control that evolves along with user needs

224 New feature WD WB WM COLOR WITH OPACITY: ALPHA CHANNEL



Transparent effect

You can now set the opacity of windows and window controls. This can be useful for applying certain style book guidelines.

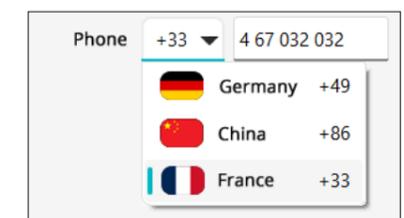
BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Adapt to any design language

225 New feature WD WB WM DISPLAY DIFFERENT VALUES ON AN EXPANDED/COLLAPSED COMBO BOX

In some cases, it may be useful to show different a different value, depending on whether the Combo Box control is expanded or collapsed.

The new `DisplayedValueComboBox` property allows you to do just that.

In version 2025, programming is no longer required to use this feature.



Here, the field at the top shows the area code, while the list shows the flag and country name.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Different values? Now, that's a good combo!

226 New feature WD WB WM HIDE TABLES WITHIN LOOPER CONTROLS

In a Looper control containing a table, it is now possible to make a single-line table invisible.

Continues page 48...

LIGHT/DARK MODE IN 1 LINE OF CODE IN YOUR APPLICATIONS

227 New feature WD WB WM TRANSFORM THE LOOK OF YOUR APPS WITH PALETTES

All new skin templates, and most of the old ones now use palettes. Numerous palettes are available by default, including:

- clear mode
- dark mode
- and much more.

To change palettes programmatically, simply use the new `PaletteChange` WLanguage function. Changes are reflected in real time.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Instant makeover.

228 New feature WD WB WM CUSTOM COLORS & LIGHT/DARK THEMES

Sometimes, you need to use your own colors, in addition to the ones available in the palette.

In version 2025, you can define a new color for each theme (light or dark).

For example, for a warning text, you can define a color named "Warning", and make it red in light theme, and pink in dark theme. Thus, you can ensure good readability in either theme.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Precise color definition

229 New feature WD WB WM BUTTONS, ICONS AND CHARTS AUTOMATICALLY UPDATED

The contents of the icons and buttons are automatically updated to adapt to the current theme.

This also applies to charts.

There is also a new option to switch buttons and icons monochrome mode when changing between light and dark themes.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Everything is taken into account



DUPLEX REPORTS 2 DIFFERENT REPORTS DIFFERENT CONTENT ON THE BACK OF PAGES

230 New feature WD WB WM EXAMPLE: GENERAL SALES CONDITIONS ON THE BACK OF AN INVOICE

A printed report may contain different types of content on the front and back of the page. A typical example is an invoice, printed on one side of a sheet, with general terms and conditions of sale printed on the reverse.

In version 2025, it becomes possible to use two different reports to print documents.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Include everything you need in your reports

231 New feature WD WB WM HOW IT WORKS

The new `iInitReportVerso` WLanguage function is used to specify the name of the report to be printed on the reverse side.

This report can be printed on a single page, or on several pages.

If there are more pages on the reverse side than on the front side, you can use "blank" pages on the front.

You can also use a PDF document on the back of each page.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Can't be any easier than that

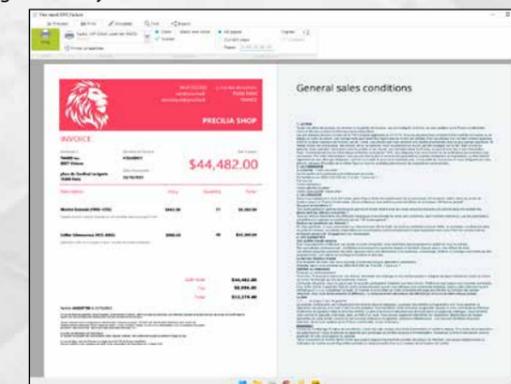
232 New feature WD WB WM CODE EXAMPLE

The code is simple:

```
// Print the General Terms and Conditions on the back of the invoice
iInitReportVerso(RPT_GTC)
iPrintReport(RPT_Invoice, Invoice_Number)
BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Clean code, complete reports
```

233 New WD WB WM PRINT PREVIEW

The preview of a report containing a different front and back side shows the pages side by side.



BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Both sides of the report at a glance

Customer and order directory:

alex.ad@tames.com Alex Andry	7953 Vernon Ave.Brooklyn, NY 11208
fr-ofon@tames.com Frank Ofon	1130 BROMFIELD Rd, Hillsborough, CA 94024
c.voyant@tames.com Claire Vernon	9404 Bald Hill LaneBrooklyn, NY 11228

Reference	Date	Total	Status
CMD001234	09-10-2024	€15,210.30	Processing
CMD001212	03-02-2024	€8,990	Paid - Delivered
CMD001005	12-12-2023	€12,245.5	Paid - Delivered
CMD000986	08-24-2023	€10,550	Paid - Delivered

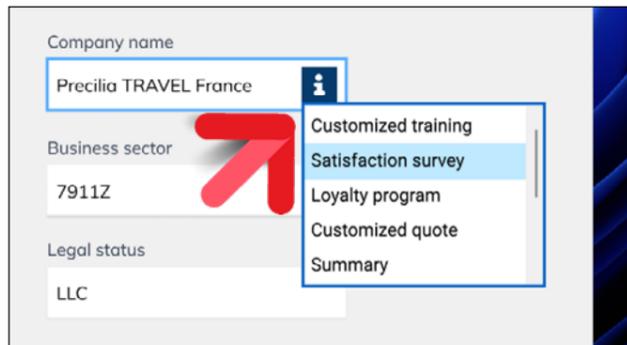
Reference	Date	Total	Status
CMD001230	09-09-2024	€6,990	Processing
CMD001023	12-15-2023	€14,200	Paid - Delivered

In the middle of this list, the order details have been hidden and an explanation text (in red) has been added

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Fully customizable Looper controls

234 GET THE COORDINATES OF ELEMENTS IN A CONTROL

A control is composed of different elements: label, input area, integrated buttons, combo button, table headers, scrollbar, etc. In particular cases (e.g., aligning popups programmatically), it may be necessary to get the coordinates of the various elements. The `ControlRectangle` WLanguage function gets these coordinates as a rectangle, including the coordinates and the width and height.



The popup is displayed exactly below the icon

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Perfect alignment

235 APPLY COLOR TO A BLACK & WHITE ICON

You can change the color of a black & white icon by selecting the new "Force monochrome mode" option in the Style tab of the 7-tab window.



Different icon color

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Life is full of colors

236 to 239 MISCELLANEOUS

- Optimized `gItalic` function
- New `Loading error` process for `HTML` controls
- You can now specify a callback for adding images to a `List-View` control
- New `OptimalHeight` function to get the height a control needs to display its full dynamic content

HELP IN YOUR APPLICATIONS

240 HELP EDITOR

In version 2025, it is now possible to insert diagrams created using the Diagram control in help pages. This facilitates visual representations.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
A more user-friendly help system

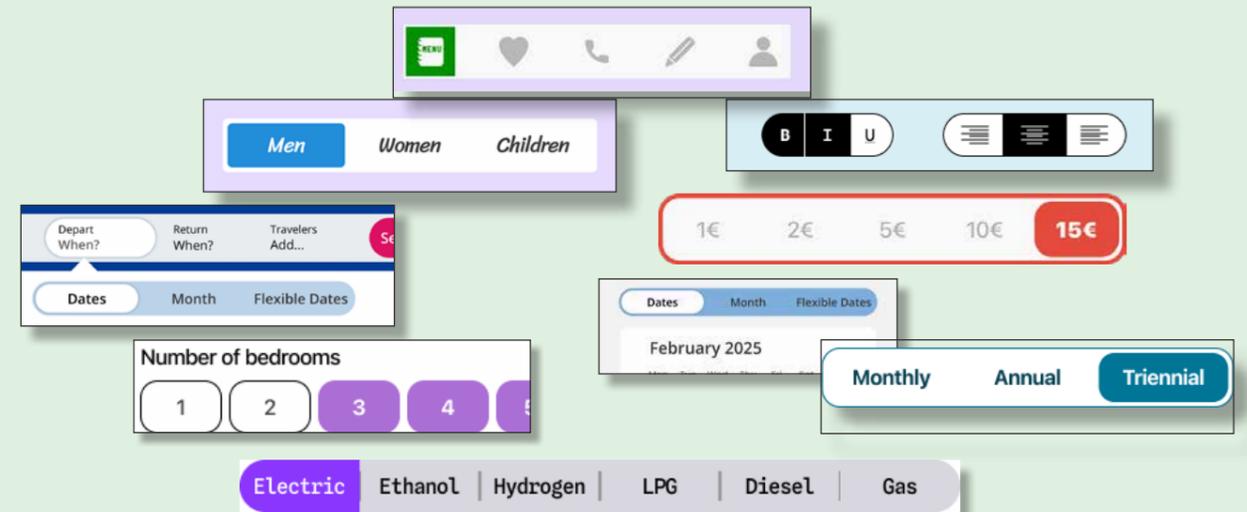
WINDEV ENVIRONMENT

241 COMMON NEW FEATURES

WINDEV's environment benefits from the common new features in version 2025 (see new features 048 to 058).

Continues page 52...

NEW CONTROL: SEGMENTED BUTTON



242 NEW SEGMENTED BUTTON CONTROL: OVERVIEW

The new Segmented Button control can be understood as a set of ON/OFF buttons grouped together in a single control. By default, this control uses a cohesive design language. As users expect, the control supports single or multiple choices. The content of each choice can be a text or an image. Programming is much simpler.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Perfectly aligned options every time

243 NEW SEGMENTED BUTTON CONTROL: CREATION

These are some of the main control settings:

- number of options
- content of each option
- single or multiple choice
- automatic anchor and width options
- separators
- separator style
- outer borders and button borders
- etc.

You can transform a Check Box control into a multiple-choice Segmented Button control, or a Radio Button control into a single-choice Segmented Button control.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Numerous possibilities

244 SIMPLE PROGRAMMING

Programming a Segmented Button is much simpler than programming a set of Radio Button, Check Box or Switch controls.

In the code of a Segmented Button control, you can:

- get the state of one of the buttons
- gray out or hide a button
- change the label or the tooltip
- add options dynamically
- define multilingual labels
- define persistent settings
- use images, Markdown text
- etc.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Simpler programming, compared to a set of buttons

245 OTHER USES

One use for Segmented Buttons that you might not think of is a selection UI with many choices.



Select one or more choices, with simple programming

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Powerful controls, WINDEV's strength

246 MISCELLANEOUS

- Single-choice Segmented Button animation: Selection moves to new choice when state changes

REACTIVE PROCEDURE OBSERVER DESIGN PATTERN



REACTIVE PROCEDURE AUTOMATICALLY EXECUTED WHEN A CONTROL OR VARIABLE IS MODIFIED

247 New feature WD WB WM A POWERFUL CONCEPT

Reactive Procedures are used to automatically trigger the execution of processes.

A Reactive Procedure is executed when a variable or 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 variables and controls to detect value changes, and in this case, it is automatically executed.

Key takeaway: The procedure is automatically executed when a variable or a control changes.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

You'll love it

248 New feature WD WB WM WHERE TO USE IT? HERE'S A SIMPLE EXAMPLE

Why create a Reactive Procedure?

Because it's really practical.

Here's a simple example: Entering an amount before and after tax.

Subtotal	€214,475
VAT	20 %
Total	€257,370

When an amount is entered in a control, the other controls update automatically.

Of course, you could write this operation in WLanguage, directly in each control.

In that case, you would need to create a procedure that performs the calculation, and include a call to this procedure in the Modification process of each of the 3 controls.

With a Reactive Procedure, you can simply write the calculation process...and that's all there is to it.

It's a simple comparison, but with 5 or more controls, code is significantly simplified and modification errors are eliminated.

Now, how to handle a change of value in one of the Edit controls programmatically?

With a Reactive Procedure, there's nothing to program. The procedure will be automatically executed. There's no risk of forgetting.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Avoids code sprawl

249 New feature WD WB WM UNIQUE AND CENTRALIZED CODE

The main advantage of this method is that the framework takes care of "observing" for changes in control values.

There's no need to write the calls in every control where changes can be made.

This results in minimal resource consumption, because the framework takes care of everything in an optimized way. The control (or variable) automatically signals its change of value to the Reactive Procedure.

This simple and clear code of Reactive Procedures makes it possible to "observe" and update several different controls and variables.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Code in one place

250 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.

The keyword also tells the procedure to execute if any 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 2025:

You decide the scope

251 New feature WD WB WM REACTIVE PROCEDURE OPTIONS

Reactive Procedures offer 2 options:

- Delay: This option defines a time period after which the procedure must be executed. For example, 100 milliseconds after a value change:

```
REACTIVE PROCEDURE CalculateTotal() <delay = 100ms>  
EDT_TOTAL = EDT_SUBTOTAL + EDT_SUBTOTAL * (EDT_VAT+1) /100
```

- Execution: This option triggers the execution of a Reactive Procedure programmatically.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Powerful programming

252 New feature WD WB WM CASCADING

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.

The framework implements the necessary security mechanisms to avoid calls in a loop, for example.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Code once, and let the framework take care of the rest

253 New feature WD WB WM DETERMINE IF A CONTROL IS OBSERVED OR MODIFIED BY A REACTIVE PROCEDURE

To find out whether a control can be modified by a Reactive Procedure, simply look at the lower-left corner of the 7-tab window of the control.



- "23" indicates the number of uses of the control in the code
 - "7" indicates the number of uses of Reactive Procedures.
- Simply click an icon to view the list of uses (cross -references).

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Knowledge is everything

254 New feature WD WB WM PRACTICAL EXAMPLE

The customer has accepted the General Sales Conditions

Standard shipping

Pickup point

In-store pickup

DESIRED PROCESSES IN THIS WINDOW:

- Disable the three radio button options, the two combo boxes and the OK button, until the check box is selected.
- Once the user selects the check box, enable all the options.
- When the user selects the first radio button option, enable the first combo box and disable the second one.
- When the user selects the second radio button option, enable the second combo box and disable the first one.
- Same process for the third option.

With a Reactive Procedure, all of these processes come down to 11 simple lines of code!

In this example, you can simply create a Local Procedure in the window, and declare it as a Reactive Procedure. That's it.

```
REACTIVE PROCEDURE Shipping_modes()<delay=1s>
```

```
GR_SHIPPING..Grayed = True // Default  
IF CBOX_GTC[1] = True THEN  
    RADIO_SHIPPING_MODE..Grayed = False  
  
    SWITCH RADIO_SHIPPING_MODE  
        CASE 1 // Delivery to one address  
            COMBO_ADDRESS..Grayed = False  
        CASE 2 // Delivery to a relay point  
            COMBO_RELAY_POINT..Grayed = False  
        CASE 3 // Store pickup  
  
    END  
END
```

This procedure will be executed automatically when CBOX_GTC or RADIO_SHIPPING_MODE changes value, e.g. when a user selects an option

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Magic!

Some of the main features include higher speeds, choice of vocabulary, new shortcuts, new panes, improved project explorer, and code editor improvements.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
An ever richer environment

WINDOW EDITOR

255 New feature WD WB WM COMMON NEW FEATURES

WINDEV's window editor benefits from common new features: palettes, new controls, blurring, faster template updates, etc. See new features 007 to 042

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Powerful new features

256 New feature WD WB WM FASTER 7-TAB WINDOWS

In version 2025, 7-tab windows load and respond faster than ever, allowing for a better workflow.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Better user experience

257 New feature WD WB WM NEW MODIFIER

The new modifier in version 2025 allows you to easily edit every aspect of your controls. See new feature 062

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
You'll love it

258 New feature WD WB WM NEW CREATION PANE

Version 2025 introduces a new control creation. Now you can instantly find the control you are looking for. See new feature 065

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Seamless workflow

259 New feature WD WB WM FLEXBOX: VIEW NESTED ITEMS

Version 2025 makes Flexbox easier than ever. Now you can view the different levels of nested items within a Flexbox container. See new feature 790

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Understand the different levels at a glance

260 New feature WD WB WM FLEXBOX: REPOSITION CONTROLS ON DEMAND

When you create or edit a Flexbox control, you integrate different items into the flexbox container.

To easily handle these items in the editor, the repositioning algorithm is automatically disabled.

In version 2025, you can manually run the positioning algorithm from the window editor.

The items will then be correctly positioned, and this positioning will be preserved.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Easier, faster actions

261 New feature WD WB WM MISCELLANEOUS

- UI error when combo content is empty in one of the languages of the application

RAD

262 New feature WD WB WM MVP RAD: PROVIDE YOUR MODEL MODEL

You can now provide a model class that will be used to generate MVP models (hence the "M" in "MVP").

This approach automatically implements the code that must be present in all models.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
How about a model of a model of a model?

USER GROUPWARE

263 New feature WD WB WM USER GROUPWARE: COMMON FEATURES

In WINDEV, the User Groupware benefits from all the common new User Groupware features: OAuth, SSO, etc.

See new features 076 and 777

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Everything is in the title

REMINDER: In WINDEV 2025, you also benefit from the common new features presented in pages 3 to 40

264 New feature WD WB WM NEW OPTION: REMEMBER ME

In all applications compiled with version 2025, login windows now include a "Remember me" option.

For security reasons, it is possible to disable this feature.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Let end users log in without effort

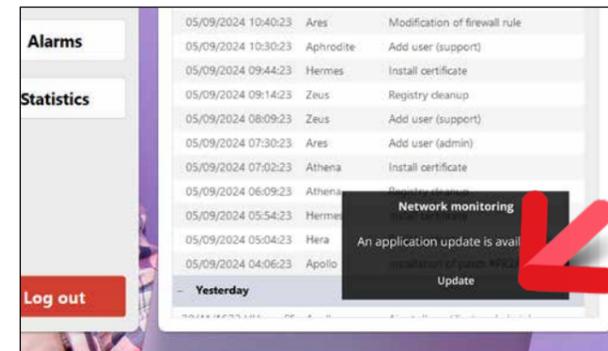
INSTALL

265 New feature WD WB WM UPDATE NOTIFICATION INTEGRATED INTO THE APPLICATION

When a new version of an application is available, the end user can be notified either when the application is launched, or via a Windows notification.

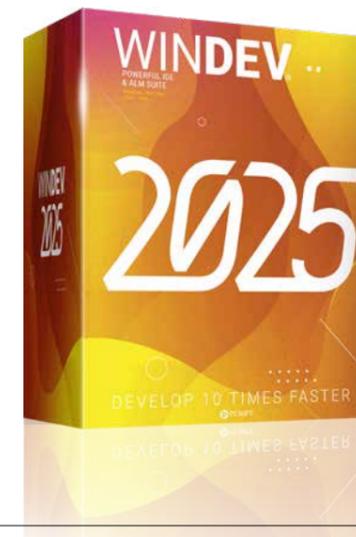
In version 2025, end-users can also be notified directly from the application.

This option can be found in the installation wizard, and can be disabled.



Available update notification in the application

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Practicality

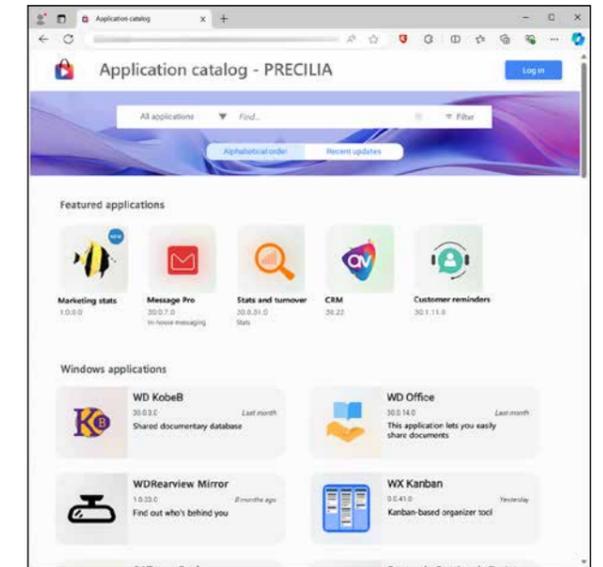


WD, WB & WM PRIVATE STORE

266 New feature WD WB WM FEATURE THE MOST POPULAR APPLICATIONS OVER LAST 7 DAYS

As you know, 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.

Now, you can feature the most downloaded applications at the top of the list.



Most popular applications at the top of the Private Store

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Better organization of your applications

267 New feature WD WB WM STORE ACCESS AUTHENTICATION VIA OAUTH SERVER

Access to the Store can be configured from the OAuth Server available in the WEBDEV Application Server.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Centralize your authentication processes

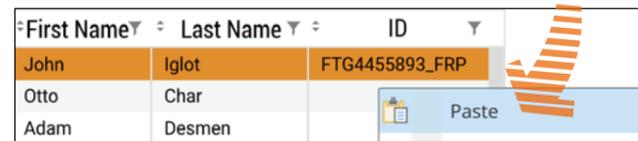
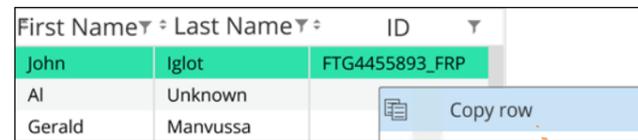
268 New feature WD WB WM MISCELLANEOUS

- The installation UX of apps from the Store has been improved
- "iOS + Android" apps in the Store can now be installed either as a cross-platform app, or as 2 separate apps.

AAF: AUTOMATIC APPLICATION FEATURES

269 New feature WD WB WM COPY & PASTE ENTIRE TABLE ROWS

In version 2025, a new AAF allows end users to copy and paste an entire row into a table.



One single option to copy and paste an entire row

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

By simply recompiling your application, you give users practical new features

270 New feature WD WB WM SEARCH THE INTERNET FROM HTML EDITOR CONTROLS



Search the selected text on the Internet

The HTML Editor control now allows end users to search for the selected word(s) on the Internet.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Practical search option for end users

JAVA



271 New feature WD WB WM THREAD TYPE NOW AVAILABLE IN JAVA

In version 2025, the **Thread** type is available in Java. This makes it easier to manage threads in Java. Secure threads are also managed.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

More programming possibilities

New feature WD WB WM

272 to 274 MISCELLANEOUS

- Cast operator available
- **..Extra** property now available on advanced types
- Copy of class properties has been optimized

New feature WD WB WM

275 to 284 10 NEW JAVA FUNCTIONS

WLanguage offers 10 new functions for Java.

AJAXCallInProgress	InPageWithinWindowMode	InRecycleMode	HExportCSV
HExportXLS	HImportCSV	HImportXLS	DayOfYearToDate
TableAddBeginning	LooperAddBeginning		

LINUX



285 New WD WB WM LINUX: SPIN CONTROL

In version 2025, the Spin control is supported in Linux applications.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Better cross-platform

New feature WD WB WM

286 to 314 29 NEW FUNCTIONS 46 NEW CONSTANTS FOR LINUX

WLanguage offers 29 new functions and 46 new constants for Linux. To learn more, see the online help.

ControlRectangle	CmdAddArgument	CmdAddOption	CmdWriteStandardInput
CmdExecute	CmdReadErrorOutput	CmdReadStandardOutput	CmdGetExitCode
DocClearFormatting	DocToHTML	PaletteGet	InRecycleMode
ExecuteReactiveProcedure	grPPCAddData	grPPCImage	grPPCMaximumValue
grCategoryThumbnail	HEnableSpare	HImportCSV	HListSchedulingHistory
HRpIAddFile	HDeleteSchedulingHistory	HClearSchedulingHistory	IAddBookmark
InitReportVerso	DayOfYearToDate	JSONOpenReader	PDFExtract
GetVariableDefinition			

.NET

315 New feature WD WB WM ARRAY: IENUMERABLE PARAMETER

You can now pass arrays as parameters to .NET functions that expect a parameter of type **iEnumerable**.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

More programming possibilities

WLANGUAGE

316 New feature WD WB WM COMMON NEW FEATURES

Language remains the cornerstone of development.

In version 2025, WLanguage in WINDEV is further enriched. It benefits from common new features and many useful improvements: Reactive Procedures, OAuth, faster web services, encryption, explicit type conversion, unlimited JSON size, etc. See new features 123 to 143

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Ever-increasing power in WLanguage

317 New feature WD WB WM READ FROM AND WRITE TO STANDARD INPUT/OUTPUT STREAMS

A WINDEV application can launch another application (another process) written in WINDEV or another language. This mainly involves applications in console mode (launched from a command line).

In version 2025, it is possible to read data from the standard output (stdout) and standard error output (stderr).

It is also possible to write data to the standard input (stdin).

This allows you to control the process launched, and retrieve the process report.

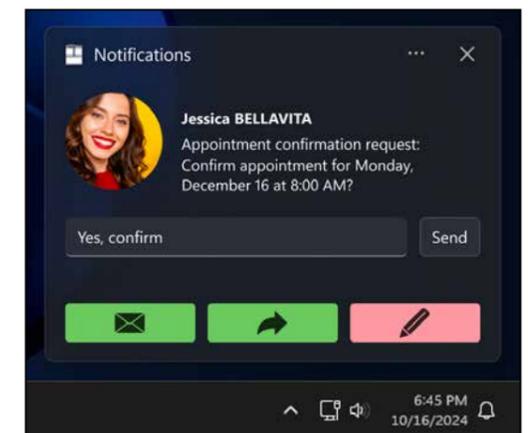
BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Ever-increasing power in WLanguage

318 New feature WD WB WM CUSTOMIZE WINDOWS NOTIFICATIONS

WINDEV applications can generate notifications to be displayed as standard Windows notifications.

You can now set button colors or add buttons to the input area.



Custom notification

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Beautiful notifications

Each upgrade to version 2025 entitles you to 15 requests to PC SOFT's Technical Support team at no cost. In version 2025, your teams benefit from Free Technical Support*

FREE TECHNICAL SUPPORT

UNIQUE SERVICE

PEACE OF MIND...

New feature WD WB WM

319 to 369 51 NEW CONSTANTS

51 new WLanguage constants are available in version 2025:

archi32	archi64	cmdStandardInput	cmdErrorOutput
cmdStandardOutput	crControl	crScreen	crWindow
cryptAES192	DisableOptimizedAnsiUnicodeConversion	docFormatPainterModeDisabled	docFormatPainterModeMultiple
docFormatPainterModeOnce	foWithHandle	foDirect2D	foWithoutHandle
ftpIgnoreDeprecated	ftpIgnoreUnsafeLegacyRenegotiation	grPictorialPercentage	hCPTelemetryEnabled
hExecSchedulingCanceled	hExecSchedulingInProgress	hExecSchedulingError	hExecSchedulingCompleted
hlpFullBackup	hlpDifferentialBackup	hNullIndexed	hNullIndexedCompoundKey
hNullNonIndexed	htrgHAdd	htrgHWrite	htrgHModify
htrgHCross	htrgHDelete	piVersion	rectHorizontalScrollbar
rectVerticalScrollbar	rectExternal	rectInternal	rectEditButtonLeft
relationshipAlternative	relationshipData	relationshipUnspecified	relationshipSource
relationshipSupplement	invalidInputPreventExit	invalidInputNonBlocking	invalidInputNone
taRefreshIndicatorDown	taRefreshIndicatorUp	gpPassword	

New feature WD WB WM

370 to 374 5 NEW TYPES

5 new types of variables are available in WLanguage:

Command	hSchedulingHistory	jsonReader	pdfControl
pdfControlOption			

New feature WD WB WM

375 to 377 3 NEW CONTROL PROPERTIES

3 new WLanguage properties are available for WINDEV.

InvalidInput	DisplayedValueComboBox	PaneVisibleByDefault
--------------	------------------------	----------------------

New feature WD WB WM

378 to 426 49 NEW WLANGUAGE FUNCTIONS FOR WINDEV

49 new WLanguage functions are available for WINDEV in version 2025:

AuthLogout	Logs out a user previously authenticated via the OAuth 2.0, OpenID or a JWT token.
AuthRevokeToken	Revokes a JSON Web Token (JWT).
AuthVerifyAuthentication	Returns the token of the current user in the case of SSO authentication
BitcoinCoreConnectionCount	Returns the number of connected peers.
BitcoinCoreDateLastLaunched	Returns the date Bitcoin Core was last launched.
BitcoinCoreDiskSpaceUsed	Indicates the size of the blockchain on disk.
BitcoinCoreBlockHash	Returns the hash of a block by index.
BTLECharacteristicChangeOfValue	Enables or disables detection of changes in the value of a Bluetooth Low Energy characteristic.
CertificateExport	Exports a certificate from a certificate store to a «pfx» or «cert» file.
CertificatePEMToPFX	Converts a certificate file in "pem" format into a certificate file in "PFX" format including the private key.
ControlRectangle	Returns a rectangle corresponding to the specified area of a control.
PaletteChange	Modifies the palette used by the project or by a window.
CmdAddArgument	Adds an argument to a command to be executed in console mode.

CmdAddOption	Adds an option to the command to be executed in console mode.
CmdWriteStandardInput	Writes data to the standard input of the command executed in console mode.
CmdExecute	Executes a command in console mode.
CmdReadErrorOutput	Reads error output data, for the command executed in console mode.
CmdReadStandardOutput	Reads standard output data, for the command executed in console mode.
CmdGetExitCode	Gets the exit code of the command executed in console mode, i.e. the value returned when the command finishes executing.
DocClearFormatting	Replaces the current formatting of a selection with the default formatting.
DocFormatPainterMode	Enables the format painter mode in the Word Processing control or determines if this mode is enabled.
PaletteGet	Displays the current project or window palette.
EmailAppGetArchitecture	Gets the architecture (32 or 64-bit) of a computer's default email client.
InRecycleMode	Indicates whether recycling mode for pre-launched (web service) sessions is enabled
ExecuteReactiveProcedure	Forces immediate execution of a reactive procedure.
WinOptimize	Changes the mode used to create and draw windows. All windows opened after calling this function will use the new mode.
PaletteGenerate	Generates a palette from one or more base colors.
gImagePalette	Builds a character sequence containing a monochrome image whose color follows palette changes
grPPCAddData	Adds values to a Pictorial Percentage chart.
grPPCImage	Defines the SVG image used for a Pictorial Percentage chart.
grPPCMaximumValue	Allows you to specify the maximum value for the chart used to calculate percentages automatically (Pictorial Percentage chart).
grCategoryThumbnail	Allows you to specify the thumbnail to be used in graphs to replace the category label.
HEnableSpare	Transforms a Spare server into an HFSQL server.
HImportCSV	Imports a CSV file into a data file in HFSQL Classic or Client/Server format.
HListSchedulingHistory	Lists a task's scheduling history.
HRplAddFile	Adds a file to a universal replication.
HDeleteSchedulingHistory	Delete task execution history.
HClearSchedulingHistory	Purge entire job schedule execution history file.
ilnitReportVerso	Initializes the parameters of a report to be printed on the verso side of another report.
DayOfYearToDate	Returns the date in YYYYMMDD format corresponding to a day number in the year.
JSONOpenReader	Opens a JSON reader.
LoadImageProcedureList	Specifies the procedure to be called when displaying a row in a List Box control.
PaletteLoad	Loads a palette from a file.
PaletteSave	Saves a palette to a file.
PDFExtract	Creates a new PDF document from individual pages extracted from an existing PDF file.
GetVariableDefinition	Retrieves the description of a variable.
TableAddBeginning	Adds a row at the top of an Infinite Table control.
LooperAddBeginning	Adds a row at the beginning of an Infinite Looper control.
LooperAddIWBeginning	Adds a row consisting of an internal window to the first row of a Looper control.

i love WINDEV AND IACOS

WINDEV[®] Mobile

AND MORE IN WINDEV MOBILE

427 New feature WD WB WM
THE 208 COMMON NEW FEATURES OF VERSION 2025 ARE AVAILABLE IN WINDEV MOBILE

WINDEV Mobile 2025

gets the 208 common new features of version 2025, including the improved editors, AI coding assistant, palettes, the new Segmented Button control, faster web services, code editor improvements, password vault, the new Pictorial Percentage chart, SCM improvements, new WLanguage and OOP features, and more.

WINDEV Mobile 2025 also boasts many new features specific to mobile development.

Learn more in the following pages.



NEW, MIND-BLOWING MOBILE RAD MODERN UI

428 New feature WD WB WM MODERN UI BY DEFAULT

WINDEV Mobile version 2025 features a new RAD tool. This new version helps you effortlessly achieve a modern look and a better user experience

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Apps with a modern design language

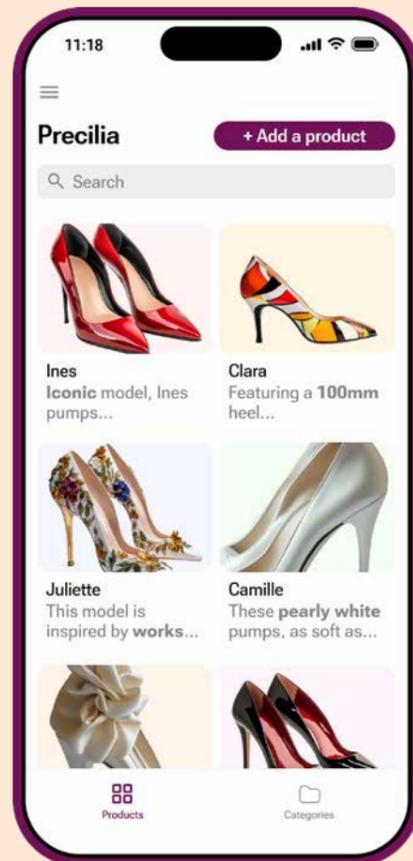
429 New feature WD WB WM DEFAULT MODELS FOR SIMPLIFIED UI GENERATION

The RAD creation method has been simplified. Now, a default layout is selected according to the content of the data files (tables).

You no longer have to answer a series of questions.

For example, if a data file contains only a label, a description and an image item, the corresponding window is automatically generated.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Simpler, better



430 New feature WD WB WM 8 DIFFERENT MODELS TO SUIT EVERY NEED

In version 2025, 8 different window models are used:

- gallery
- loopers
- loopers with selection
- tables
- tables with selection
- details
- additions
- modifications

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Create a great UI in seconds

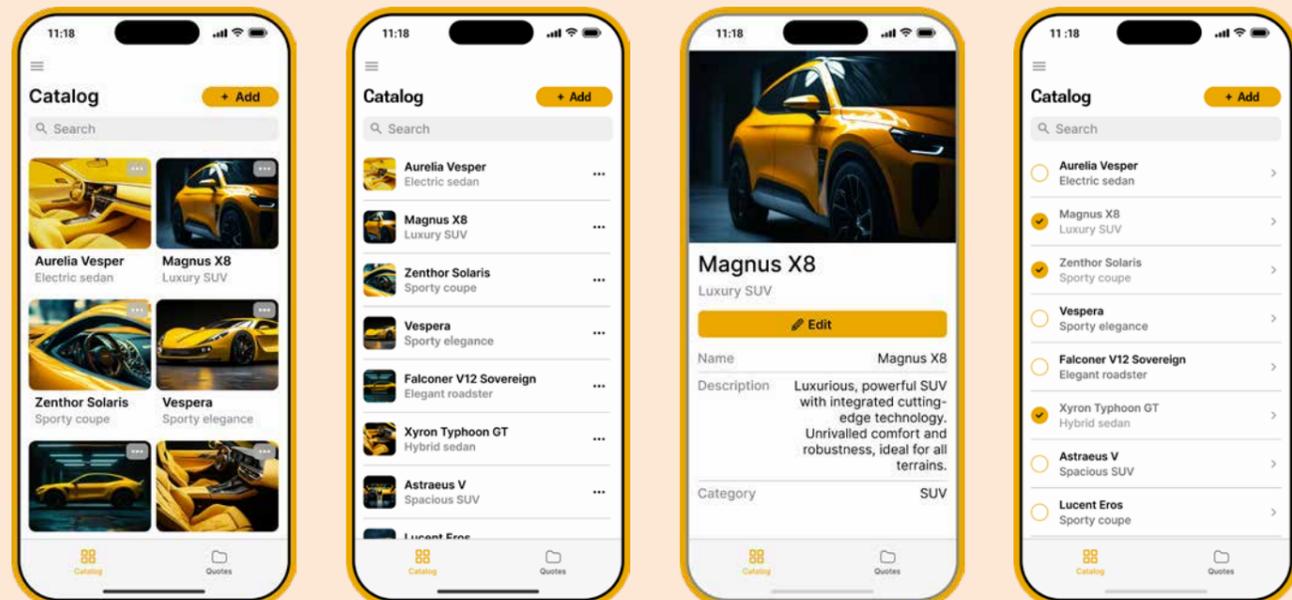
431 New feature WD WB WM READY-TO-USE, YET FULLY EDITABLE

The generated WLanguage code is fully editable.

By default, the skin template of the current application is used. You can also edit the generated windows.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Your application, exactly the way you want it

Windows generated with the RAD tool



REMINDER: In WINDEV Mobile 2025, you also benefit from the common new features presented in pages 3 to 40

NEW CONTROLS

WINDEV Mobile 2025 offers improved and new controls to create even better UIs.

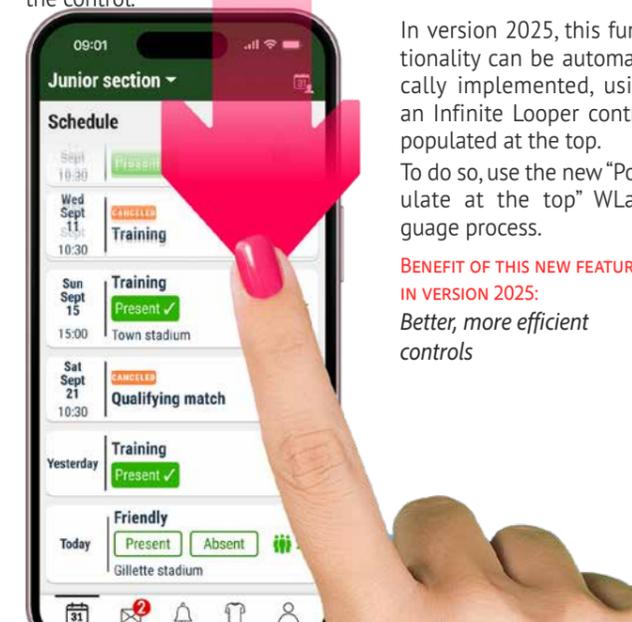
432 New feature WD WB WM CONTENT ORDERED CHRONOLOGICALLY IN A LOOPER CONTROL: HOW TO GO BACK IN TIME

Many applications display elements in chronological order. The position is usually set at the end of the control, which means you only see the latest elements.

Well-known examples include WhatsApp, Messenger and Telegram. For obvious performance reasons, content is loaded as the user scrolls through the control.

examples include WhatsApp, Telegram.

For obvious performance reasons, content is loaded as the user scrolls through the control.



In version 2025, this functionality can be automatically implemented, using an Infinite Looper control populated at the top.

To do so, use the new "Populate at the top" WLanguage process.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Better, more efficient controls

433 New feature WD WB WM LARGE CONTENT IN A TABLE

The functionality used to populate controls at the top described in the above feature is also available for Table controls.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Better, more efficient tables

434 New feature WD WB WM TAP & HOLD A ROW TO REORDER A LOOPER CONTROL

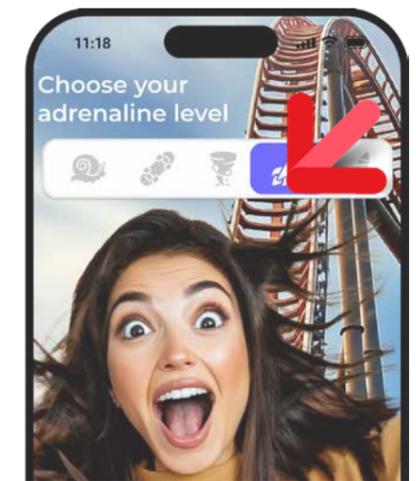
Loopers enable end users to reorder rows with a simple drag & drop.

Now, users can simply tap and hold a row to enable the reorder mode. No additional programming required.

This feature can be disabled.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Effortlessly implement an intuitive functionality

435 New feature WD WB WM SEGMENTED BUTTON CONTROL



The new Segmented Button control is now available for mobile applications as well.

See new feature 242

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Interoperability

436 New feature WD WB WM PREFILLED CONTROLS

Mobile devices can store personal data and then prefill certain controls with this data.

For each control in each window of a mobile app, you can indicate the type of data that should appear in the suggestions, in particular passwords managed by the mobile device.

In the 7-tab windows, you will find a list of the available data types: Last name, First name, Address, etc.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Big time saver for end users

437 New feature WD WB WM ADD APPOINTMENTS TO THE PHONE CALENDAR WITHOUT REQUESTING A PASSWORD

A mobile device generally has 2 calendar applications. One that comes with the device, and another that is linked to the Android or iOS account.

WINDEV Mobile 2025 can now automatically add an appointment to the phone's default calendar.

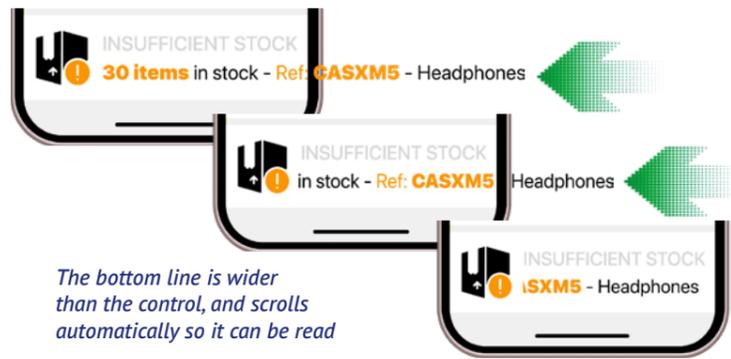
This action does not require any type of authentication.

To manage this action programmatically, simply use the new `AppointmentAdd` WLanguage function.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Direct access to the calendar

438 New feature WD WB WM • AUTO SCROLL OVERFLOW TEXT

The text present in a Static Text or in a Button control may be lon-



The bottom line is wider than the control, and scrolls automatically so it can be read

ger that what the control allows. Some examples include: dynamic text from a database, text defined programmatically, warning message, action validation, German translations, etc.

Simply check the "Scrolling text" option in the Details tab of the 7-tab window, and indicate whether or not the text should scroll automatically.

To avoid creating a visual fixation point, text scroll n times, and then stops.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Make long text easy to read

439 New feature WD WB WM NEW CHART



The new Pictorial Percentage chart is now available for mobile applications.

See new features 033, 037 and 040

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

User-friendly data representation

440 New feature WD WB WM AUTOMATICALLY STRAIGHTEN AND CLEAN UP A PHOTO TAKEN WITH A MOBILE DEVICE

The Image Editor control allows users to take photos.

In version 2025, the Image Editor control can also straighten photos and remove unwanted elements.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Clear images, no effort

441 New feature WD WB WM MISCELLANEOUS

- Ability to adjust the opacity of controls.

NEW SMART CONTROLS IN WINDEV MOBILE 2025

442 New feature WD WB WM NEW SMART CONTROL: ONE-TIME VERIFICATION CODE RECEIVED BY SMS

Many two-factor authentication methods send a one-time verification code by SMS.

The "One-time code authentication" Smart control makes it possible to automatically retrieve this code from the application.

See new feature 444

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Ready to use

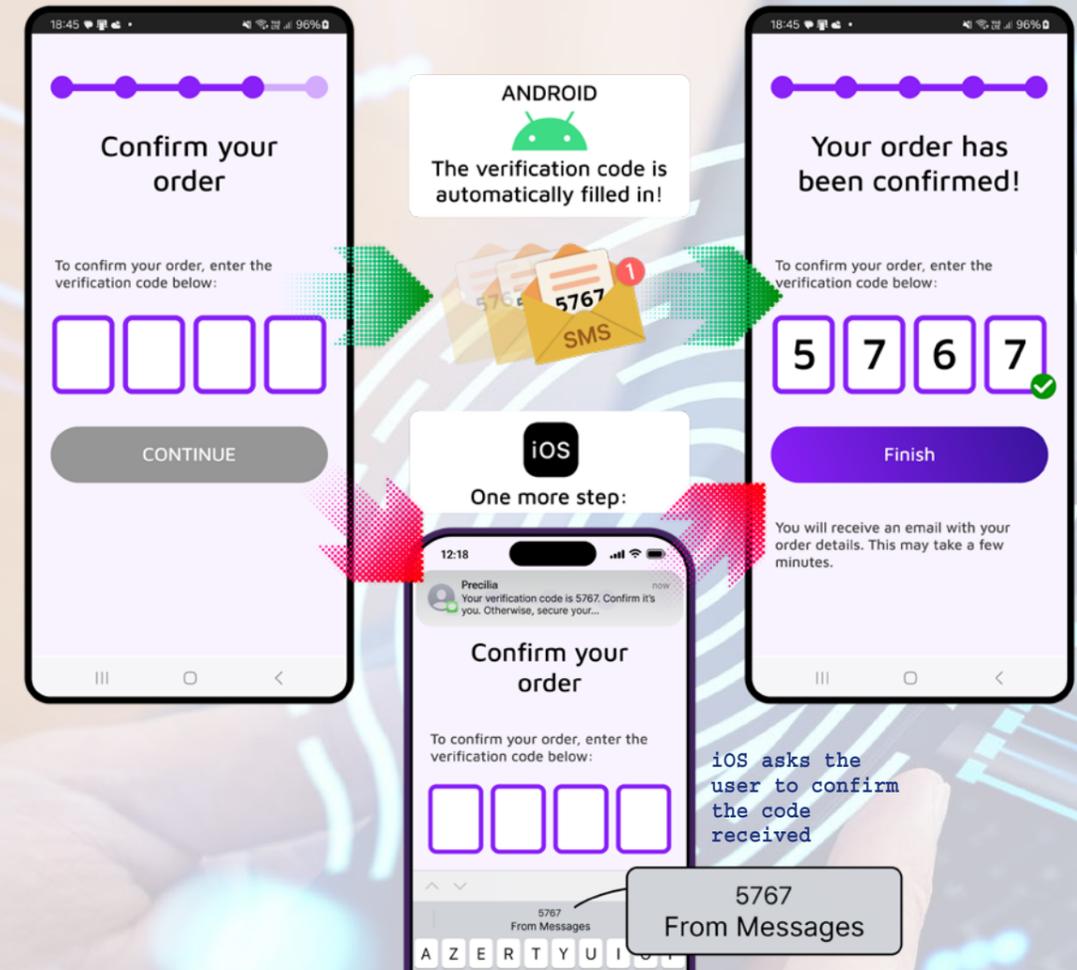
443 New feature WD WB WM NEW SMART CONTROL: HANDWRITTEN SIGNATURE ON PDF

This new Smart control allows users to add their handwritten signature to a PDF document directly from their mobile devices. See new feature 458

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Ready to use

TWO-FACTOR AUTHENTICATION BY SMS THE APP RETRIEVES THE SMS AND AUTOMATICALLY PROCESSES THE CODE



444 New feature WD WB WM RETRIEVE ONE-TIME CODES TO HELP USERS CONFIRM ACTIONS

A common way to confirm an action within an app is to request a code received by SMS. This method is commonly used to complete a payment or authentication step.

For most users, this is a cumbersome process, as it implies navigating between several apps.

The "One-time code authentication" Smart control enables your application to automatically retrieve and use this code.

This Smart control uses the new `SMSDetectOneTimeCode` WLanguage function.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

4Less handling, less errors

445 New feature WD WB WM A USER EXPERIENCE THAT ADAPTS TO THE OS OF THE DEVICE

This Smart control takes into account small differences between Android and iOS.

On Android, the whole process is straightforward, while iOS adds an extra layer of security by requiring a confirmation from the end user.

Simply use this Smart control in your application, and let it handle these aspects automatically.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Suitable for all devices

446 New feature WD WB WM TOTAL CUSTOMIZATION

Of course, this Smart control is fully customizable, just like all other Smart controls. You can edit the control, code, etc.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

A control that suits your needs

OTHER COMMON NEW FEATURES FOR IOS/ANDROID

447 New feature WD WB WM XLSX SHEETS & XLSX WLANGUAGE FUNCTIONS FOR MOBILE APPS

WINDEV Mobile 2025 offers WLanguage functions for manipulating XLSX documents.

You can:

- load and save a document
- add and delete sheets
- add, format and edit cells
- trigger recalculation
- ...

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Calculate on your mobile

448 New feature WD WB WM SAFE

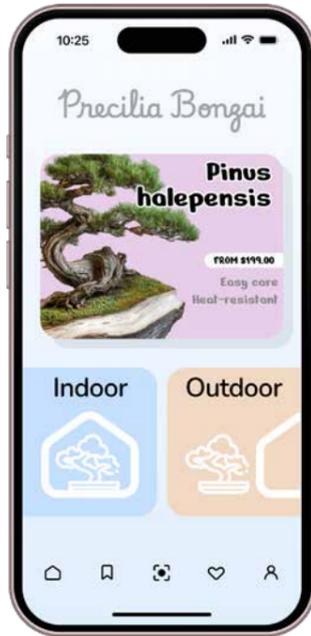
The new password vault for code editors is now also available on mobile.

See new feature 116

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Code security

449 New feature WD WB WM USE GOOGLE FONTS IN YOUR ANDROID & IOS APPS



Google Fonts is a font service owned by Google. It includes a large number of free fonts.

These fonts can be used on both Android and iOS, making it easy to create applications with the same look and feel on both OSes.

450 New feature WD WB WM NEW SKIN TEMPLATE FOR MOBILE APPS

Version 2025 includes the new "Emerald" skin template. Feel free to use it to customize your apps!

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

New looks for your apps

Feel free to use these templates for your apps, as well as all the templates provided with WINDEV Mobile.

Remember you can also apply a palette and create your own skin templates.

WINDEV Mobile gives you the help you need to create superb UIs.



Gabarit Émeraude

EASILY TRANSFORM YOUR WINDEV APPLICATIONS INTO IOS & ANDROID APPLICATIONS

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



451 New feature WD WB WM YOUSIGN: ELECTRONIC SIGNATURES

Yousign integration is also available for mobile applications. See new feature 156

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

DocuSign or Yousign integration: the choice is yours

452 New feature WD WB WM DROPBOX WLANGUAGE FUNCTIONS AVAILABLE ON MOBILE

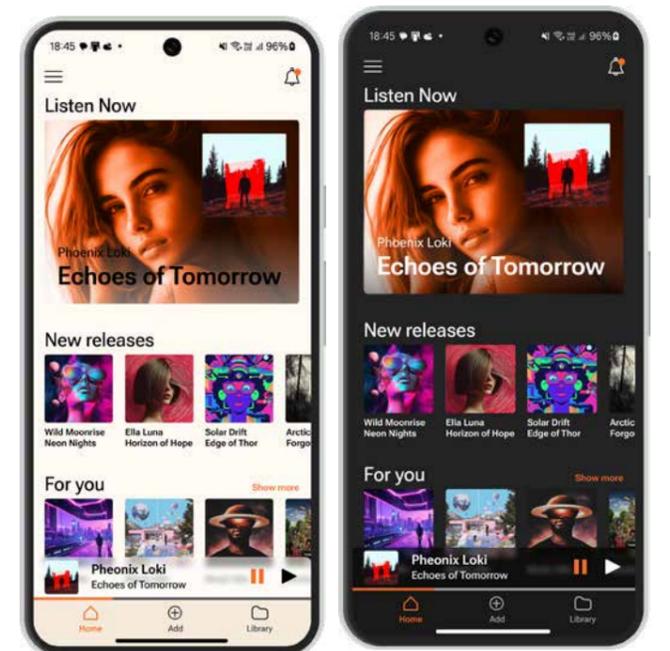
In version 2025, you can use **Dropbox** WLanguage functions, in addition to **GoogleDrive** and **OneDrive**.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Integrate your preferred drive service

453 New feature WD WB WM PALETTES

The new palettes are also available for mobile applications. These palettes are essential to allow end users to switch to dark mode (or any other mode) with a single tap within your application. See new feature 007



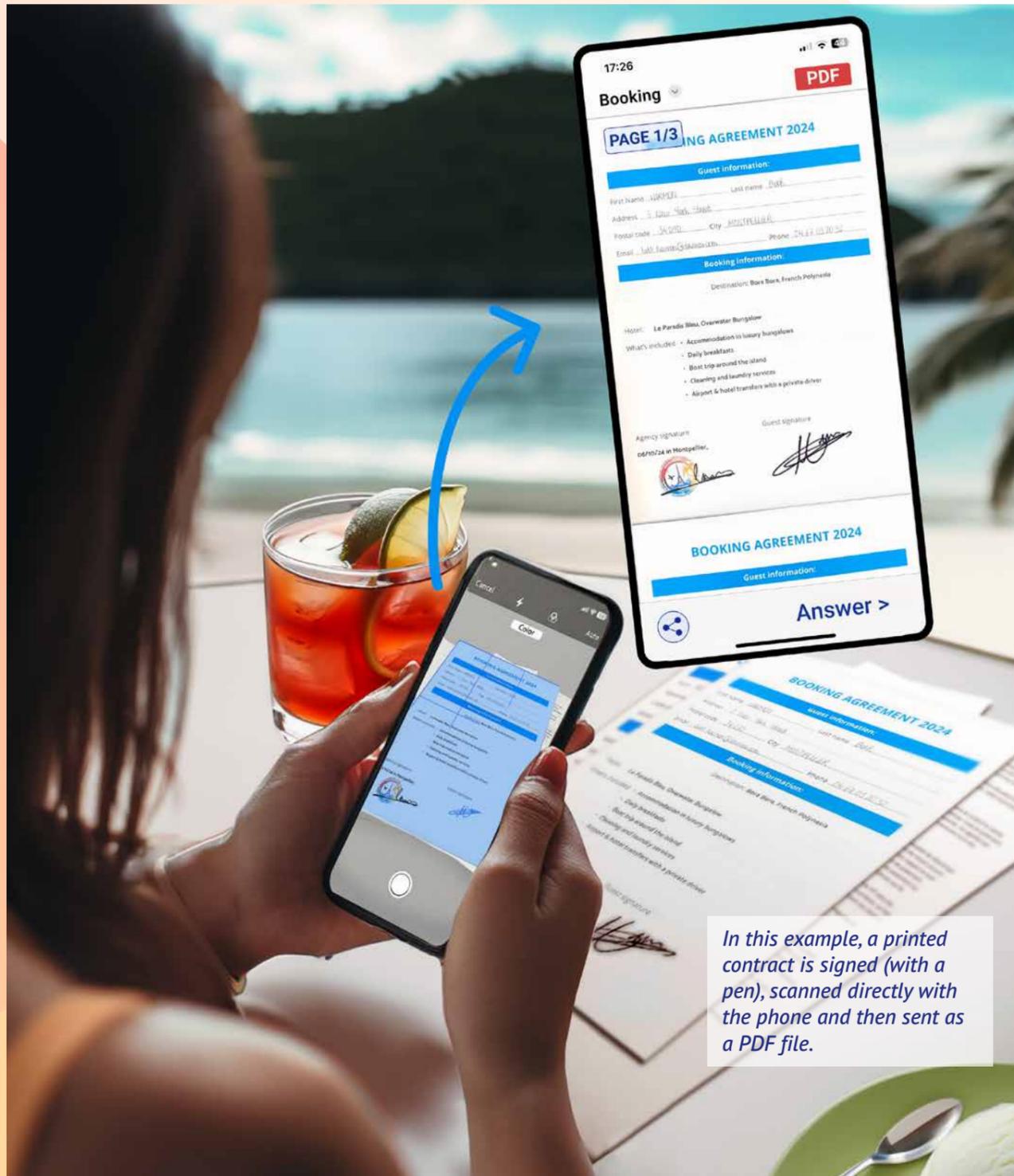
One tap and your app switches to dark mode

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Can't be any easier than that

Continues page 66...

GOT A PHONE? SCAN ANY DOCUMENT TO PDF!



In this example, a printed contract is signed (with a pen), scanned directly with the phone and then sent as a PDF file.

SCAN & ENHANCE DOCUMENTS

TRANSFORM A SERIES OF PHOTOS INTO A PDF FILE

454 New feature WD WB WM CREATE A PDF DOCUMENT FROM PHOTOS TAKEN WITH A SMARTPHONE

The new `ScanFromCameraToImage` and `ScanFromCameraToPDF` WLanguage functions are used to take photos with a smartphone, and transform them into a ready-to-use document. All unwanted elements are removed, and perspective distortion is fixed, if necessary. One common case scenario is scanning a hand-signed document.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Create PDF documents with a few taps

455 New feature WD WB WM TOTAL AUTOMATION

The WLanguage function captures the image, detects the document and creates a representation within a parallelogram. The user can adjust the document area. Once the user confirms changes, any perspective distortion is corrected. Users can scan several pages in a single series. A single PDF document containing all the pages will be generated.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
WLanguage takes care of everything

456 New feature WD WB WM ADVANCED OPTIONS

The new scan capabilities include some advanced options. In this mode, the result returned is an array of variables of type `Image`. This allows you to program any process you may need. For example, OCR can be applied to scanned images by calling the `OCRDetectTextArea` and `OCRExtractTextBlock` WLanguage functions.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Fine programming

457 New feature WD WB WM MISCELLANEOUS

In Android, end users benefit from additional image editing features:

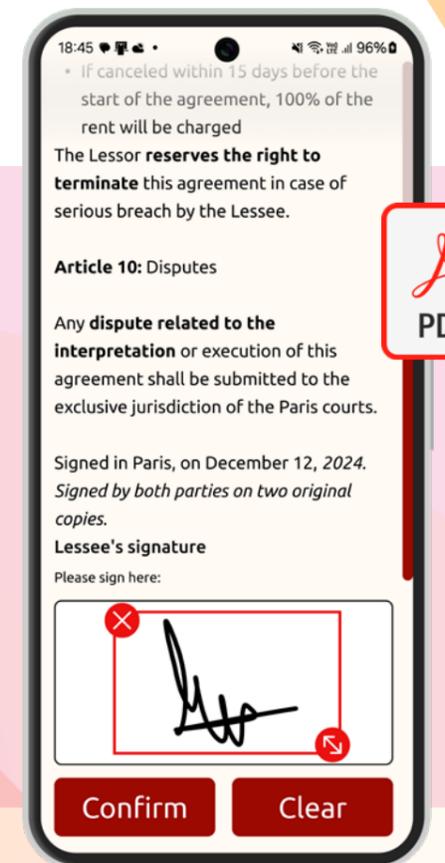
- filter
- erase
- crop
- etc.

PDF OR SCAN: HAND-WRITTEN SIGNATURE ON THE DEVICE

458 New feature WD WB WM HAND-WRITTEN SIGNATURE DIRECTLY ON THE DEVICE

Apply your handwritten signature to a PDF document directly from your smartphone. This PDF document may be a scan made with the device. Simply take a photo of your signature and initials (feature included in the Smart control) and position them at the desired location. The new "Handwritten signature in PDF" Smart control is included in version 2025.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Essential functionality in many fields



AND MORE FOR IOS

459 New feature WD WB WM ALL THE COMMON NEW FEATURES FOR MOBILE APPS

iOS development has never been as powerful as with WINDEV Mobile 2025. You benefit from awesome new features in addition to those already available.

iOS evolves, and so does WINDEV Mobile 2025.

WINDEV Mobile 2025 for iOS benefits from:

- the common new features in version 2025
- **plus** the common new features for mobile devices
- **plus** new features specific to iOS.

460 New feature WD WB WM IOS 18,



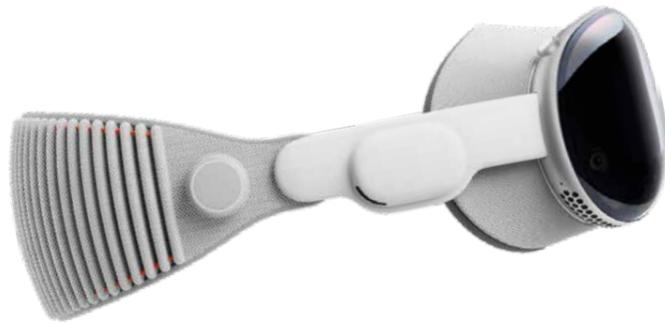
NEW IPHONE 16, WATCH SERIES 10

iPhone 16 and Apple Watch Series 10

WINDEV Mobile 2025 supports both iOS 18 and WatchOS 10. All iPhone 16 and Apple Watch Series 10 models are supported.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Enjoy all the features of iOS 18



461 New feature WD WB WM APPLE VISION PRO MIXED-REALITY HEADSET: HOVER STATE

With Apple's Vision Pro headset, simply glancing at a control triggers the "Hover" state.

The code written in the "Hover" event, if any, will be executed.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Intuitive interaction with controls

462 New feature WD WB WM EXTRACT PAGES FROM A PDF DOCUMENT PROGRAMMATICALLY

Various PDF manipulation features were already available on iOS. Among the 81 new features specific to iOS, developers will surely appreciate the **PDFExtractPage** function, which extracts one or more pages from a PDF document to create a new PDF document.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Practical functionality on iPhone

463 New feature WD WB WM INTERNAL WINDOW: INFINITE SWIPE EFFECT.

You can use Internal Window controls to display a series of elements that the user can navigate through by swiping.

In version 2025, when the user reaches the last element, the first element appears again, creating an infinite swipe effect.

To enable this feature simply select the corresponding option in the 7-tab window.

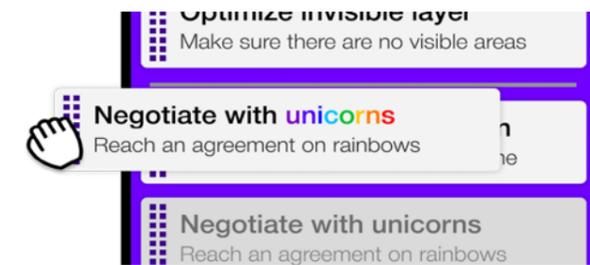
BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Power

464 New feature WD WB WM USE HANDLES TO MOVE LOOPER CONTROL ROWS

In a Looper control, you can add handles at the beginning or end of a row.

These handles will allow users to move the row.



Handle on the left of the row

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Additional built-in functionality

New feature WD WB WM

465 to 472 8 NEW TYPES

8 new types of variables are available for iOS:

hSchedulingHistory	jsonReader	xlsCell	xlsColumn
xlsComment	xlsDocument	xlsRow	xlsLayout

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

More and more power in WLanguage

New feature WD WB WM

473 to 536 64 NEW FUNCTIONS & 94 CONSTANTS FOR IOS

WLanguage is enriched with 64 new functions for iOS, as well as 94 new constants and 22 new functions for iOS Widgets (visit WINDEV.COM for the full list).

AnimationSetMode	AuthRevokeToken	AuthVerifyAuthentication	ControlRectangle
PaletteGet	InRecycleMode	ExecuteReactiveProcedure	WinOutHeight
WinOutWidth	WinOutXPos	WinOutYPos	WinInHeight
WinInWidth	WinInXPos	WinInYPos	fTempFile
fOpenTempFile	grPPCAddData	grPPCImage	grPPCMaximumValue
grCategoryThumbnail	HLimportCSV	HListSchedulingHistory	HRplAddFile
HDeleteSchedulingHistory	HClearSchedulingHistory	iAddBookmark	iniReportVerso
DayOfYearToDate	JSONOpenReader	PDFExtractPage	PDFNumberOfPages
GetVariableDefinition	AppointmentCreate	ScanFromCameraToImage	ScanFromCameraToPDF
TableAddBeginning	xlsAddWorksheet	xlsCoordinatesToName	xlsUnmergeCell
xlsData	xlsClose	xlsCurrentWorksheet	xlsMergeCell
xlsMsgError	xlsNbColumn	xlsNbWorksheet	xlsNbRow
xlsNameToCoordinates	xlsOpen	xlsRecalculateAll	xlsGetMerge
xlsSave	xlsDeleteWorksheet	xlsColumnTitle	xlsColumnType
xlsVersion	zipOpenRAR	LooperAddBeginning	LooperAddWBBeginning
LooperRestorePositionAndSelection	LooperSavePositionAndSelection		

New feature WD WB WM

537 to 541 5 NEW FUNCTIONS & 12 CONSTANTS FOR APPLE WATCH

5 new WLanguage functions are available for Apple Watch and 12 new constants (visit WINDEV.COM for the full list).

InRecycleMode	ExecuteReactiveProcedure	HLimportCSV	JSONOpenReader
GetVariableDefinition			



AND MORE FOR ANDROID

542 New feature WD WB WM ALL THE COMMON NEW FEATURES FOR MOBILE APPS

Android development has never been as powerful as with WINDEV Mobile 2025.

The amount of powerful features at your disposal keeps growing. Android evolves, and so does WINDEV Mobile. This particular version features **Android 15** support.

WINDEV Mobile 2025 for Android benefits from:

- the common new features in version 2025
- **plus** the common new features for mobile devices
- **plus** new features specific to Android.

543 New feature WD WB WM ANDROID 15 SUPPORT

WINDEV Mobile 2025 supports the latest version of Android.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Stay up to date



544 New feature WD WB WM GET THE PHONE NUMBER OF THE CURRENT DEVICE

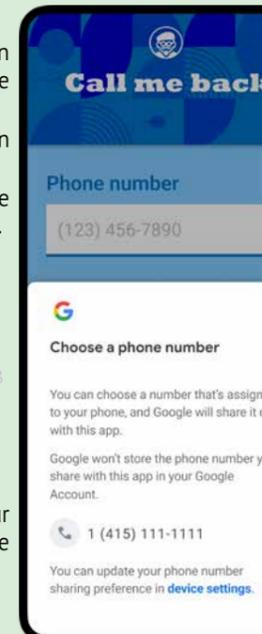
The new **tapiGetNumber** WLanguage function gets the phone number(s) associated with the device on which the application is running.

Bear in mind Android requires user authorization before allowing this operation.

If several SIM cards are present on the phone, the user must select the number they want to share.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Easier user identification



545 New feature WD WB WM PDF MANIPULATION IN WLANGUAGE

Now, you can easily manipulate PDF files in your Android applications, using **pdf** WLanguage functions.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Feature-rich Android apps

546 New feature WD WB WM NEARBY CONNECTIONS BETWEEN 2 OR MORE DEVICES: EVEN WITHOUT MOBILE DATA, EVEN IN AIRPLANE MODE

It is now possible to establish nearby connections between multiple Android devices.

This feature makes it possible for 2 or more devices to exchange data, even in airplane mode, with all networks disconnected.

The devices don't need to be in contact or very close to each other, which makes this feature useful in many areas.

Device detection uses Bluetooth, so only devices within Bluetooth radio range will be detected. The connection is then made via Bluetooth, Bluetooth Low Energy or WiFi direct.

In Android, there are 3 nearby share modes, also known as "strategies":

- point-to-point
- star: 1 advertiser and N discoverers
- cluster: every device is both an advertiser and a discoverer

WINDEV Mobile 2025 supports these 3 modes.

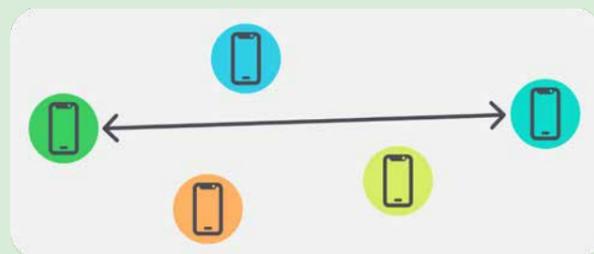
The connection mode is automatically optimized by your app.

A new set of 11 **NearbyShare** WLanguage functions allows you to easily implement this functionality.

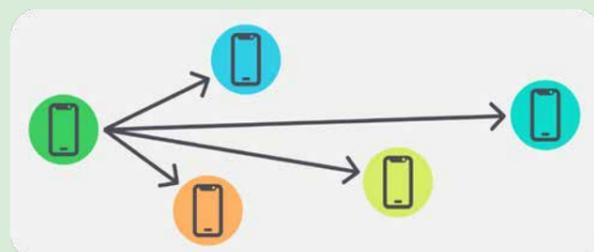
See new feature 673

Examples of use:

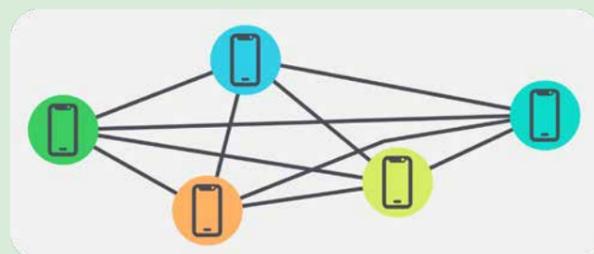
- photo or video sharing
- commercial information sharing
- business meeting quiz
- sports coach shares session program with attendants
- collaborative whiteboard
- ...



Point-to-point strategy



Star strategy



Cluster strategy

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Powerful data sharing capabilities

The common new features in version 2025 are also available for Android and iOS projects

549 New feature WD WB WM REST WEB SERVICES: OPENAPI NOW AVAILABLE

Web services are widely used in mobile applications.

In version 2025, you can natively call REST web services with OPENAPI documentation in the code editor.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

A widespread standard

550 New feature WD WB WM WLANGUAGE: TYPE YAML

YAML is an exchange format designed to be human-readable.

The **YAML** type is now available for Android applications.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

A new native exchange format for Android

551 New feature WD WB WM REGULAR EXPRESSIONS ALSO AVAILABLE IN ANDROID

A regular expression is a character string that defines a very precise search pattern.

Search, modification and verification regular expressions are now available in Android.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

The power of WLanguage

New feature WD WB WM

552 to 558 MISCELLANEOUS

- OAuth: JWT tokens supported
- Android Control Center: ability to select multiple files
- Ability to lock screen rotation at 180°
- **Enums** supported in external components
- OOP: Ability to copy class properties
- OOP: Multisyntax constructors supported
- Local procedures for internal windows can be called from the host window.

New feature WD WB WM

559 to 655 97 NEW WLANGUAGE CONSTANTS

97 new constants available for Android:

crControl	crScreen	crWindow	cryptAES192
hExpNoLineItemName	iFontAngle	iAutomatic	iFontSize
nsCanceled	nsBuffer	nsCluster	nsConnected
nsDisconnected	nsConnectionFailed	nsInProgress	nsError
nsStar	nsFile	nsPointToPoint	nsConnectionRejected
nsCompleted	afAddressPostalCode	afAddressCountry	afAddressRegion
afAddressStreet	afAddressCity	afNone	afAutomatic
afCreditCardSecurityCode	afCreditCardExpirationYear	afCreditCardExpirationDate	afCreditCardExpirationMonth
afCreditCardNumber	afBirthDate	afBirthDateYear	afBirthDateDay
afBirthDateMonth	afMiddleName	afEmail	afPassword
afName	afFamilyName	afUsername	afNewPassword
afNewUser	afPhoneNumber	afFlightNumber	afNamePrefix
afGivenName	afSMSOneTimeCode	afNameSuffix	aptCanceled
aptFailed	aptSuccess	rectExternal	rectInternal
rectEditButtonRight	rectEditButtonLeft	invalidInputNonBlocking	invalidInputNone
sdCanceled	sdFailed	sdSuccess	taRefreshIndicatorDown
taRefreshIndicatorUp	gtPassword	thpConnectedDevice	thpCamera
thpLocation	thpMediaPlayback	thpMicrophone	thpHealth
thpShortService	thpDataSync	thpSpecialUse	ThreadStopRequested
threadSecure	xlsCompatible	xlsDataError	xlsWrite
xlsMergeAndCenter	xlsMergeSimple	xlsColumnNum	xlsRowNum
xlsTitleError	xlsTypeString	xlsTypeDate	xlsTypeDateTime
xlsTypeDouble	xlsTypeDuration	xlsTypeError	xlsTypeTime
xlsTypeCurrency	xlsTypeEmpty	xlsVersionUndefined	xlsVersionXls
xlsVersionXlsx			

547 New feature WD WB WM GET OPENID INFORMATION OF USERS LOGGED IN VIA OAUTH

An application may need to retrieve information about a logged-in user. These details may include name, postal address, email address, phone number, etc.

The **OpenIDReadIdentity** function retrieves these details.

Accessible information is determined by the permissions (scopes) sent at the time the request is made.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

A widely used standard

548 New feature WD WB WM THREAD PROGRAMMING: EXECUTION PARAMETERS

The **Thread** advanced type, as well as secure thread programming are now available for Android applications.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

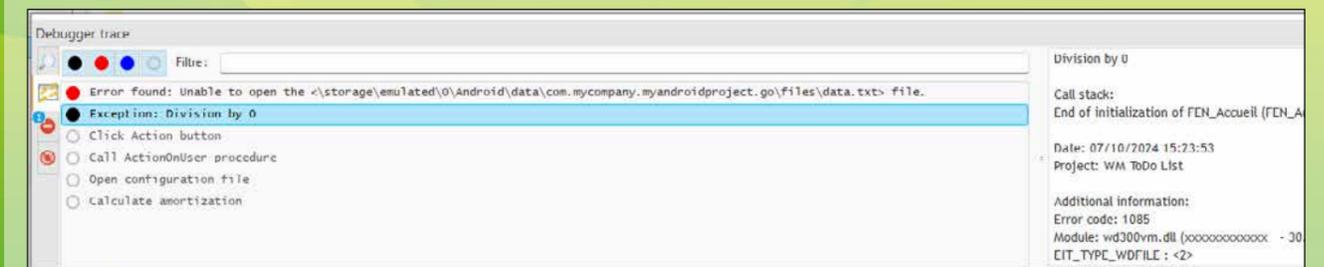
Improved code security

INDUSTRIAL DEVICES

WINDEV Mobile supports industrial devices (e.g., Zebra) used in all professional fields



ANDROID DEBUGGER



656 New feature WD WB WM IMPROVED DEBUGGER

In version 2025, WINDEV Mobile's Android debugger introduces several features to further help developers:

- Breakpoints in internal procedures
- Breakpoint in procedures with automations
- Traces, errors and exceptions directly visible in the dedicated

debugger pane

- Better display of advanced types in the debugger
- Run to cursor functionality.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Testing made easy

New feature WD WB WM

657 to 672 WLANGUAGE 16 NEW TYPES

16 new types of variables are available for Android:

apiClient	apiRequest	Watermark	JWTParameters
OpenIdIdentity	OpenIdParameters	Palette	pdfControl
pdfControlOption	Thread	tsCell	xlsColumn
xlsComment	xlsDocument	xlsRow	YAML

New feature WD WB WM

673 to 761 89 NEW WLANGUAGE FUNCTIONS FOR ANDROID

Version 2025 introduces 89 new functions for Android, 89 new functions for Android widgets and 12 new constants.

Germany.CheckTaxNumber	AnimationSetMode	AJAXCallInProgress	AuthLogout
AuthRevokeToken	AuthVerifyAuthentication	Belgium.CheckTaxNumber	Brazil.CheckTaxNumber
Canada.CheckTaxNumber	ControlRectangle	PaletteChange	ComboClose
PaletteGet	dpDriveConnect	InPageWithinWindowMode	Spain.CheckTaxNumber
UnitedStates.CheckTaxNumber	WinOutHeight	WinOutWidth	WinOutXPos
WinOutYPos	WinInHeight	WinInWidth	WinInXPos
WinInYPos	fTempFile	fOpenTempFile	PaletteGenerate
gImagePalette	grGetData	grCategoryThumbnail	HExportJSONString
HExportCSV	HExportXLS	HImportCSV	HImportXLS
HrplAddFile	Italy.CheckTaxNumber	OpenIdReadIdentity	PaletteLoad
PaletteSave	NearbyShareAcceptConnection	NearbyShareStopWaiting	NearbyShareStopDiscovery

NearbyShareStopAll	ShareProximityAttendConnexion	NearbyShareDisconnect	NearbyShareRequestConnection
NearbyShareSend	NearbyShareSendFile	NearbyShareDiscoverDevice	NearbyShareRejectConnection
PDFAddWatermark	PDFAddImage	PDFExtract	PDFNbSignatures
PDFGetSignatureDate	PDFGetSignature	RegexSearch	RegexReplace
RegexMatch	ScanFromCameraToImage	ScanFromCameraToPDF	SMSDetectOneTimeCode
Switzerland.CheckTaxNumber	TableAddBeginning	tapiGetNumber	xlsAddWorksheet
xlsCoordinatesToName	xlsUnmergeCell	xlsData	xlsClose
xlsCurrentWorksheet	xlsMergeCell	xlsMsgError	xlsNbColumn
xlsNbWorksheet	xlsNbRow	xlsNameToCoordinates	xlsOpen
xlsRecalculateAll	xlsGetMerge	xlsSave	xlsDeleteWorksheet
xlsColumnName	xlsColumnType	xlsVersion	LooperAddBeginning
LooperAddBeginning			

WINDOWS MOBILE, EMBEDDED & CE, UWP

Windows Mobile, Windows CE and Windows Embedded applications are still used in the industrial field. UWP is still used for a few projects.

Applications for Windows Mobile, Windows CE and Windows Embedded can be developed with WINDEV Mobile 26. If you need to use these features, you can access WINDEV Mobile 26 from version 2025. To develop features for UWP, use WINDEV Mobile 2024, which is available with a license for version 2025.

I LOVE MY WINDEV MOBILE APP



2025

70

What's new in WINDEV 2025 WEBDEV 2025 WINDEV Mobile 2025 & WINDEV Suite SaaS

WEBDEV

AND MORE IN WEBDEV

762 New from WB THE 208 COMMON NEW FEATURES OF VERSION 2025 ARE AVAILABLE IN WEBDEV

WEBDEV 2025

gets the 208 common new features of version 2025, including the improved editors, AI coding assistant, palettes, faster web services, code editor improvements, password vault, the new Pictorial Percentage chart, SCM improvements, new WLanguage and OOP, features, and more.



71

CREATE SECURE REST WEB SERVICES

SECURE WEB SERVICE

763 New feature WD WB WM SECURE ACCESS TO WEB SERVICES

WEBDEV enables you to easily create REST web services. In version 2025, you can also create REST web services that require an OAuth access token.

WEBDEV 2025 takes care of everything!

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

A widely used type of web service

764 New feature WD WB WM

HOW IT WORKS

To access certain web services, an access token is required.

Users must therefore obtain the token to call those web services.

OAuth is a standard protocol that allows them to obtain this token.

Reminder: OAuth lets you manage access authorizations.

This token is provided by an authentication server, using the OAuth protocol.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Standard protocol

765 New feature WD WB WM HOW TO CREATE A SECURE WEB SERVICE

Simply create a web service as usual.

In the web service description, specify the address of the desired authentication server.

With WEBDEV 2025, that's all you need to do.

Initial authentication

```
oauth_parameters is OAuth2Parameters
...
// Authentication request
MyToken is AuthToken = AuthIdentify(oauth_parametres)
```

Secure web service call

```
// Retrieve number of invoices for the logged-in user
req is httpRequest
req.AuthToken = MyToken
req.URL = "http://serv.mycompany.com/v1/Billing/Invoice?num_invoice=" + num
req.Send()
```

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Easy definition

766 New feature WD WB WM

HOW TO CREATE A SECURE WEB SERVICE WITH DIFFERENT AUTHORIZATION LEVELS

For more specific authorizations, you can use detailed permissions, known as "scopes".

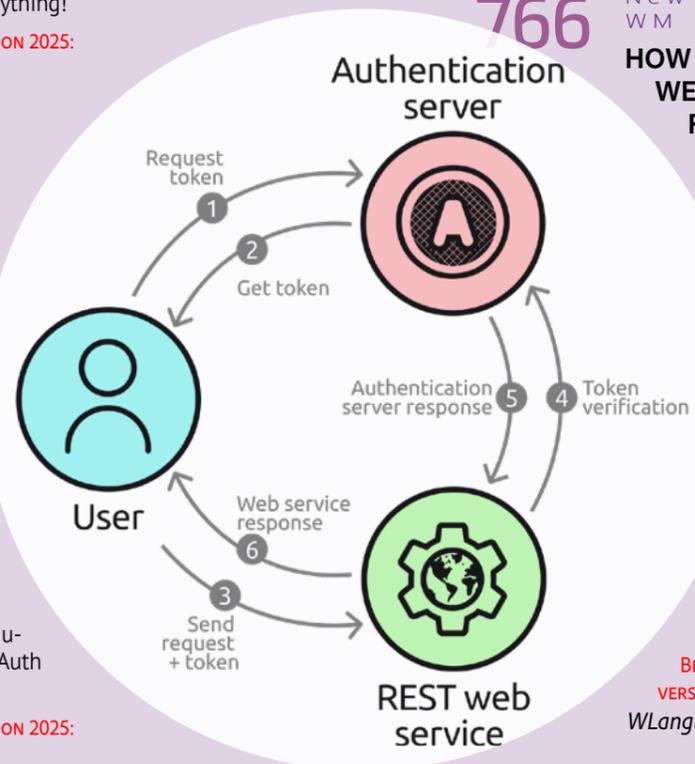
This type of authorization is defined through a specific interface in the authentication server.

Some examples include: write access, access to a specific resource, etc.

You can specify the scopes required for each web service entry point.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

WLanguage makes it easy



765 New feature WD WB WM HOW TO CREATE A SECURE WEB SERVICE

Simply create a web service as usual.

In the web service description, specify the address of the desired authentication server.

With WEBDEV 2025, that's all you need to do.

Initial authentication

```
oauth_parameters is OAuth2Parameters
...
// Authentication request
MyToken is AuthToken = AuthIdentify(oauth_parametres)
```

767 New feature WD WB WM USE THE OAUTH SERVER OF YOUR CHOICE

A secure web service requires an OAuth server.

WEBDEV 2025 lets you choose between:

- a third-party server
- the OAuth server provided as standard with WEBDEV Application Server (see new feature 769).

If you are using a third-party authentication server, simply check that it has the necessary services.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Yes, an OAuth server is provided as standard

OAUTH SERVER INCLUDED IN WEBDEV APPLICATION SERVER

OAUTH



OAUTH

768 New feature WD WB WM • WHY USE AN OAUTH AUTHENTICATION SERVER?

The OAuth protocol is an open standard used to issue secure authorizations.

An OAuth authentication server manages the following aspects:

- Secure authentication
- Authorizations
- Access tokens and refresh tokens
- Rights associated with tokens ("scopes")

An OAuth authentication server can be hosted on a physical server of any type: local network ("on premise"), hosting provider, cloud, etc.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Advanced technology as standard

769 New feature WD WB WM • OAUTH AUTHENTICATION SERVER: PROVIDED IN VERSION 2025

WEBDEV Application Server 2025 includes an OAuth authentication server by default.

To use this authentication server, simply activate the OAuth authentication server option when installing WEBDEV Application Server in version 2025.

This authentication server greatly simplifies installation, administration and programming, at no extra cost.

This authentication server can also be used for SSO authentication (see new features 773 to 780).

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Effortless authentication processes, out of the box!

770 New feature WD WB WM • LET THE OAUTH AUTHENTICATION SERVER TAKE CARE OF EVERYTHING

The OAuth authentication server provided with WEBDEV 2025 includes every functionality you might need.

In particular, the server manages an account database, as well as an account administration website, where you can create and edit accounts, import accounts from an LDAP directory, etc.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Risk-free account administration

771 New WD WB WM • AUTOMATICALLY MANAGED SECURE WEBSITE LOGIN



Once OAuth authentication is implemented in a website or application, users must provide login credentials.

This step is managed by the authentication server.

You can customize the login page.

If a user forgets their password, this page allows them to get a new one.

You can create new accounts from the login page.

2FA (via email and Authenticator) is supported.

The `AuthIdentify` WLanguage function manages authentication and opens the login page.

A third-party language can use the WEBDEV authentication server via HTTP requests.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Standard processes

772 New feature WD WB WM TOKENS, SCOPE & CONSENT

Tokens are generated by the server and identify a given user.

When creating OAuth credentials ("Client ID/Secret" pair), you can define scopes, which determine the authorizations of the token.

The OAuth server automatically handles the user's request to use one or more available scopes.

Tokens are automatically refreshed.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Easy user authentication

The • icon indicates that the new feature is already available in the SaaS version released in June.



SSO: SINGLE SIGN ON

AUTHENTICATION MADE EASY



LOG IN ONCE. ACCESS EVERY TIME.

773 *New feature WD WB WM* **SSO: INTEROPERABILITY**

Single Sign On (SSO) offers a practical approach to user authentication processes. Users enter their login credentials once, and these credentials are then automatically recognized by all the other websites they access, whether developed with WEBDEV or not. This means users no longer need to enter their login credentials on every site they try to access. Of course, these sites must support SSO. The login/password pair is known and stored only on the authentication server. Sites don't see or store the password directly. Everything is managed automatically for sites developed with WEBDEV 2025.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Simplified login process

774 *New WD WB WM* **SSO: AUTHENTICATION SERVER INCLUDED**

Each site that uses SSO must call an authentication server. The authentication server:

- manages the database of accounts and their passwords: create accounts, delete accounts, etc.
- displays the login window for the first login attempt
- returns the information requested by the site: last name, first name, email, etc., but not the password.
- manages logout
- allows you to set the authorized connection time (in hours, days, etc.)

This authentication server comes as standard with WEBDEV Application Server 2025. See new feature 769. WEBDEV 2025 uses the OpenID Connect protocol, which allows other websites (not developed with WEBDEV) to use this authentication server.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
A robust, yet flexible authentication server

775 *New feature WD WB WM* **TOKENS**

To implement SSO, websites must know a secret key issued by the authentication server. To authenticate a user, the website must call the `AuthIdentifyWLanguage` function, one of whose parameters is this secret key. The first time a user tries to log in, a login page defined by the authentication server is displayed. The server issues a token (stored in a cookie). The following authentications will automatically detect this cookie, and validate access to the site. There's no additional programming. The `AuthIdentifyWLanguage` function takes care of everything.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Security

776 *New feature WD WB WM* **SSO INTEGRATION METHODS**

Two methods are available to implement SSO in a WEBDEV site:

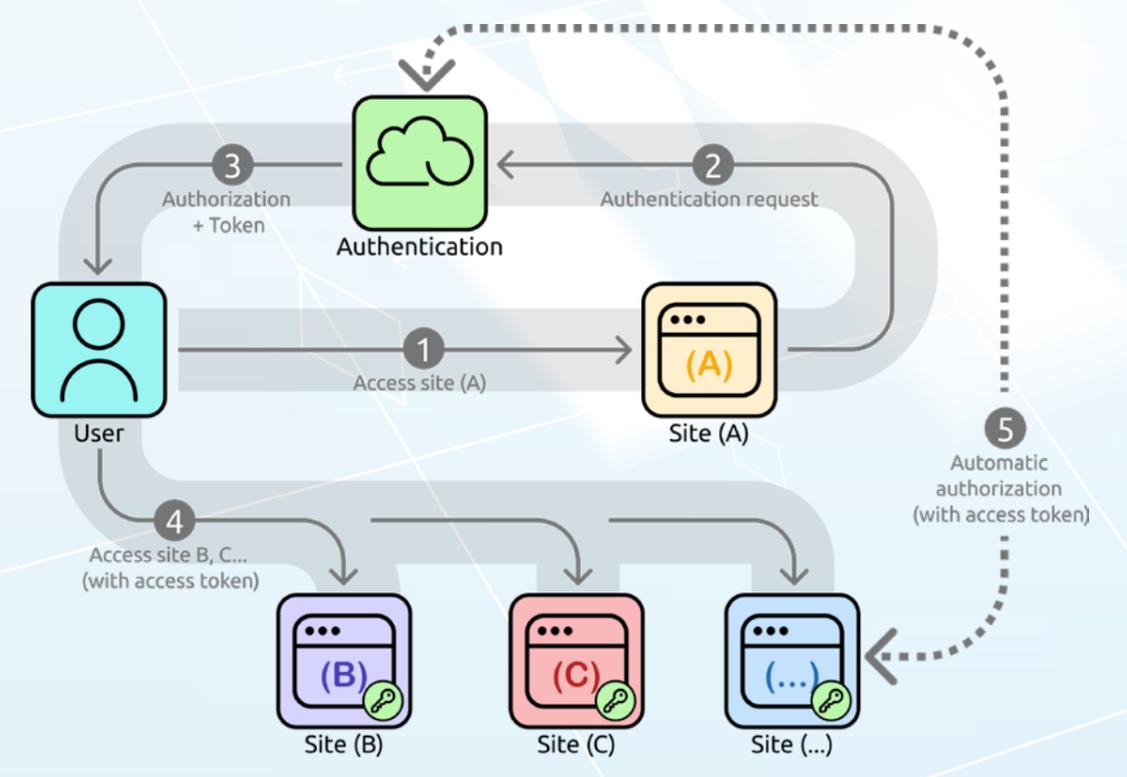
- User Groupware
- programmatically

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Choose the method that best suits your needs

777 *New feature WD WB WM* **SSO INTEGRATION: USER GROUPWARE (GPU)**

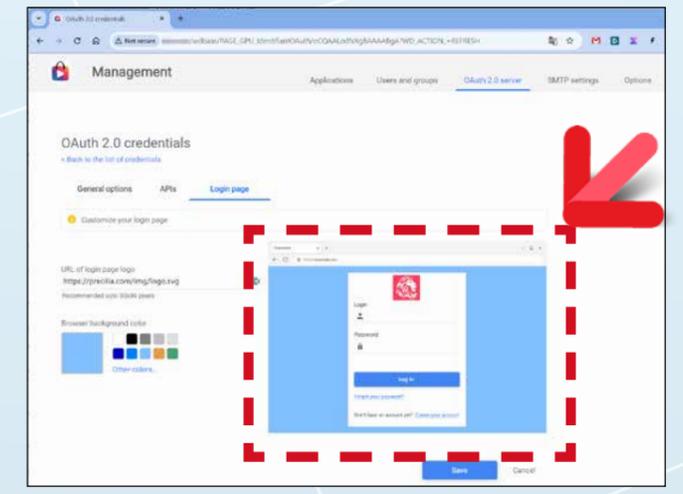
The easiest way to use SSO in a WEBDEV site is to use the integrated User Groupware. With this method, all you need to do is specify the authentication server access parameters in the GPU settings window. Can't be any easier than that.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Easy to install



778 *New feature WD WB WM* **SSO INTEGRATION: PROGRAMMATICALLY**

This method is best for sites that don't use the User Groupware. Programming is simple as always, thanks to the `AuthIdentifyWLanguage` functions.



and `OpenIDIdentifyWLanguage` functions.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
The power of a SGL

779 *New feature WD WB WM* **EASY LOGIN PAGE CUSTOMIZATION**

The login page can be customized directly from the authentication server administration site.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Customization options

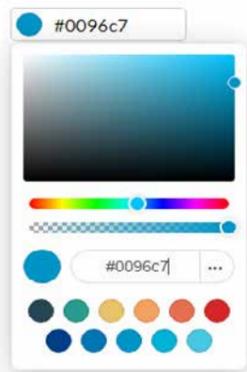
780 *New feature WD WB WM* **INTEGRATED TWO-FACTOR AUTHENTICATION**

The authentication server also offers a two-factor authentication mechanism. This method can be implemented by sending an email or using a third-party authenticator (Google, Microsoft, etc.).

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Total security

NEW SMART CONTROLS

781 New feature WD WB WM
NEW SMART CONTROL: LIGHT COLOR PICKER



Simplified color picker

The "Light Color Picker" Smart control is a color picker with essential features, but with a lighter UI than a standard color picker. This control includes a button to open the standard color picker, if necessary.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Sometimes, simplicity is the way to go

PAGE EDITOR

782 New feature WD WB WM
FASTER ENVIRONMENT

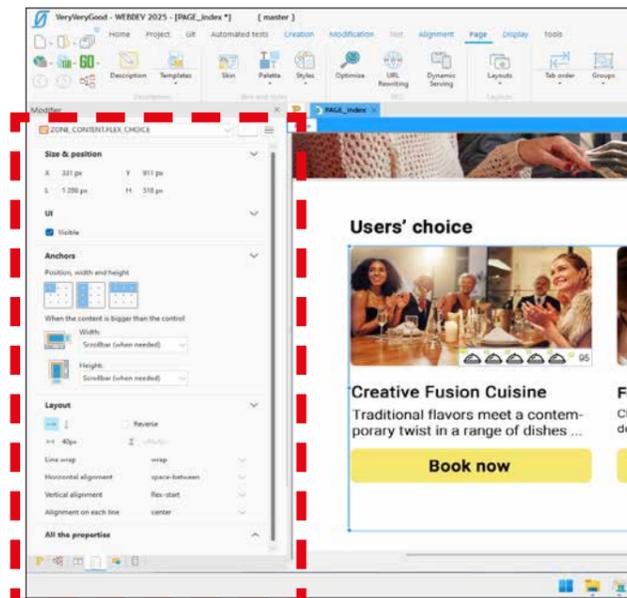
In WEBDEV 2025, all 7-tab windows are smoother and more responsive. This results in a much better workflow. See new feature 256

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Smoother, faster, better

783 New feature WD WB WM
NEW MODIFIER PANE

In version 2025, the modifier boasts a new, even more practical layout (see New features 062 to 064).

Now, you can edit page and control properties more efficiently than ever before.

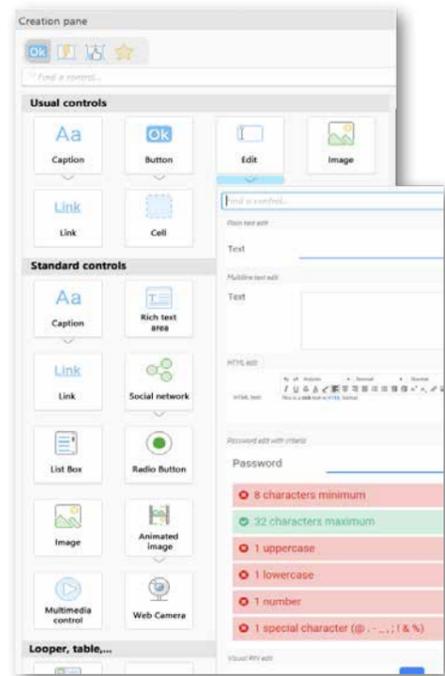


Modifier pane for a Flexbox control

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Useful information at a glance

784 New feature WD WB WM
CONTROL CREATION PANE

In version 2025, the environment includes a new pane to find the desired control within seconds (see new features 065 to 067). Creating and editing pages and controls has never been easier!



The new field creation panel

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Think it. Find it. Sorted.

Continues page 74...

NEW FEATURES IN SCHEDULER & ORGANIZER CONTROLS

785 New feature WD WB WM
SCHEDULER CONTROL & AGENDA: 2 FREQUENTLY USED FIELDS

Both Scheduler and Organizer controls are exceptionally powerful. These two controls are widely used in applications and websites. Version 2025 offers even more customization options in web mode.

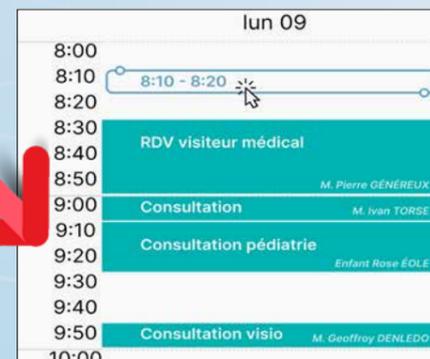
BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Do more, program less

787 New WD WB WM
PROGRAMMATICALLY CHANGE THE BACKGROUND COLOR OF A RESOURCE OR TIME RANGE

Let's say you want to change the background color of an element to indicate it is not available. Here are some examples:

- resource: Jean
 - time range: April 18
 - range for a resource: Marc, on May 15 from 8 AM to noon.
- This can be done with the `SchedulerBackgroundColor` function.

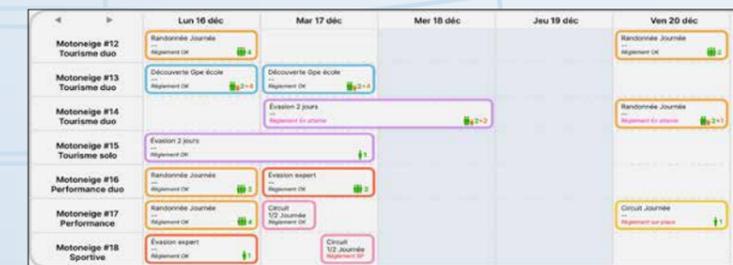
786 New feature WD WB WM
FULLY CUSTOMIZABLE APPOINTMENT GRANULARITY



Fully customizable granularity: 10 minutes

In version 2025, you can choose the desired granularity, down to one minute!

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Precision



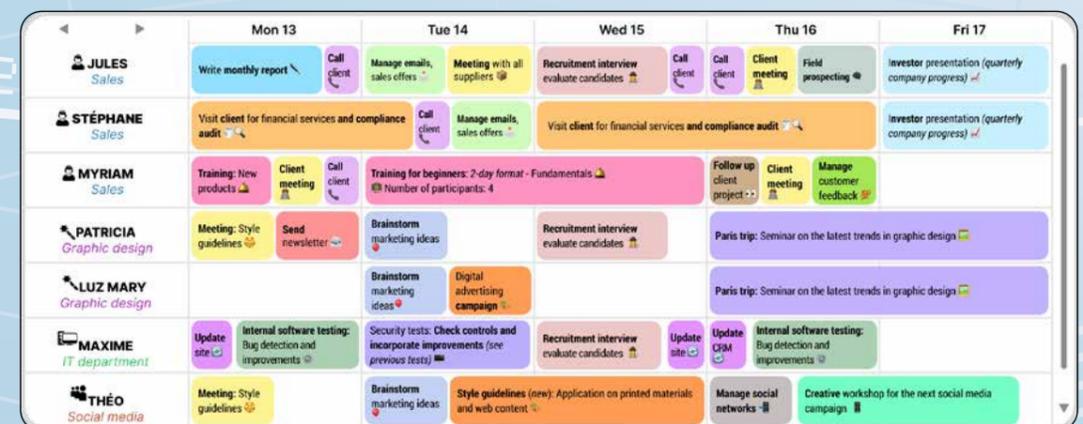
Here, the light blue background indicates the duration of a commercial campaign

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Better visibility

788 New feature WD WB WM
IMAGES & HTML FORMATTING IN RESOURCE LABELS

You can use images and HTML attributes in cells. This allows you to unleash your creativity.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
A control optimized for the web

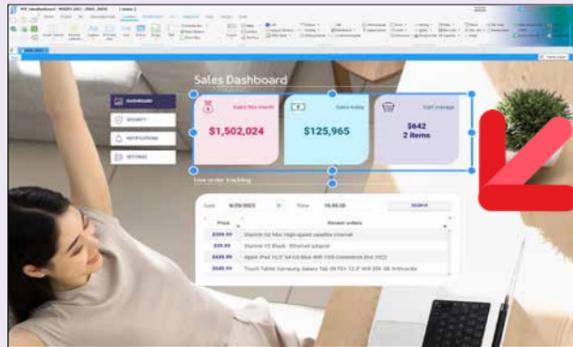


Up-to-the-minute planning and scheduling made easy

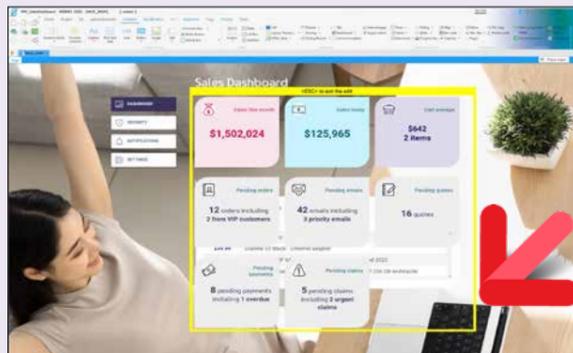
FLEXBOX CONTROL

789 New feature WD WB WM FLEXBOX: VIEW ALL CONTROLS IN EDIT MODE

Flexbox controls have a fixed size in edit mode. In a Flexbox container, certain items can be programmed to be invisible. The Flexbox can therefore contain more items than what it can show in edit mode. In version 2025, a new editing mode shows all the items. This new mode lets you see how all the items are laid out. To switch between modes, simply right-click the control.



Here, the Flexbox has the minimum size used at runtime



Here, the Flexbox control shows all its items

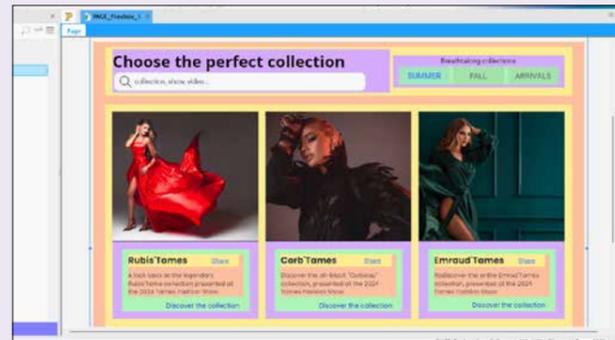
792 New feature WD WB WM VALIDATION BUTTON: 1 CLICK IN THE 7-TAB WINDOW

In the WEBDEV editor, to set a button to validation mode, i.e., to execute the action of the button when the Enter key is pressed, you had to manually edit the shortcut of the button. In version 2025, simply select the "Validate button" option in the UI tab of the 7-tab window. In the page editor, when a button contains a label such as "OK", "Confirm", etc., the dynamic UI audit prompts you to set the button to validation mode.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Practical view in edit mode

790 New feature WD WB WM FLEXBOX: BACKGROUND COLOR TO SEE HOW ITEMS ARE NESTED

In version 2025, the environment includes a practical feature to edit Flexbox controls. Now, you can see how items are nested within containers. This smart feature represents nesting levels using a different color for each level. The color scheme can be changed at any time so that the colors are visible regardless of the background.



Different colors help you understand nesting levels

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Understand levels at a glance

791 New WD WB WM FLEXBOX: OVERFLOW OPTION AVAILABLE

The "overflow" option allows a control to grow and adapt to the size of its content when necessary. In version 2025, this option is also available for Flexbox controls.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Total adaptation

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
One click is all it takes

793 New feature WD WB WM LOCK CONTROLS WITHIN A CELL

In version 2025, the page editor allows you to lock the controls contained in a cell. This makes it easier to move the cell and the controls it contains.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Manipulate cells with ease

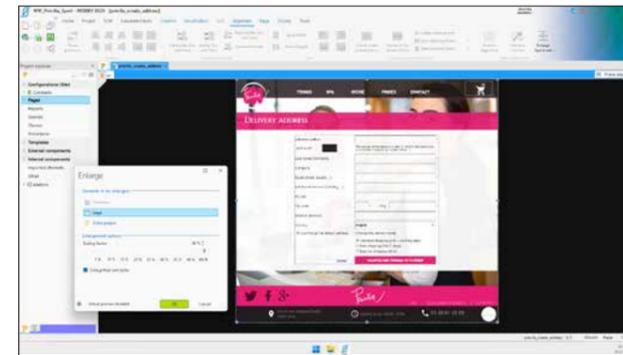
794 New feature WD WB WM DELETE A CELL (CONTAINER) WITHOUT DELETING ITS CHILDREN

It is now possible to delete a container (Cell, Flexbox, Tab, etc.) without deleting its contents.

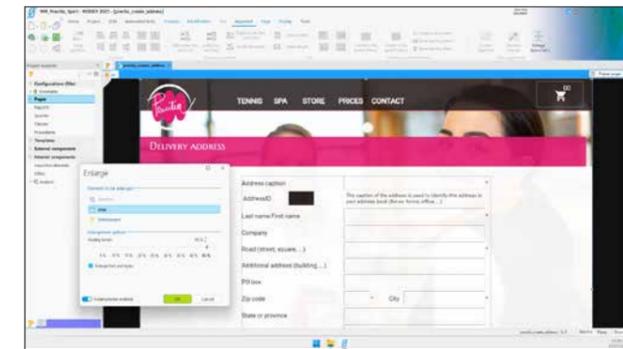
BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Practicality

795 New feature WD WB WM UI ENLARGER

In previous versions, you may have created pages using small fonts. Now, the page editor lets you proportionally enlarge the content of the page. This action enlarges fonts and controls and repositions elements where necessary.



Page with old values



Resized page

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Modern, more readable pages with one click

796 New feature WD WB WM NEW CONTROL TRANSFORM OPTIONS

The ability to transform controls into other types of controls is a very popular feature.

Version 2025 offers the following transform options:

- Cell to Flexbox
- Flexbox to Cell

- Rich Text Area to Static Text
- Static Text to Rich Text Area
- Static Text to Link
- Link to Static Text

Additionally, this feature has become much more user-friendly. **BENEFIT OF THIS NEW FEATURE IN VERSION 2025:**
Less actions in the editor

797 New feature WD WB WM INVALID DRAG & DROP: LOOPER ONTO ANOTHER LOOPER

WEBDEV lets you insert a Looper control into another Looper. This is achieved by placing the Looper to be inserted in an Internal Page, then using this Internal Page in the other Looper control. A common mistake is to drag one Looper and drop it directly onto the other, which will not produce the expected result. When this action is detected, WEBDEV 2025's page editor prompts you to use an Internal Page.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
No worries, we've got your back

New feature WD WB WM

798 to 802 MISCELLANEOUS

- Ability to enter the plane (layer) number in the status bar
- Anchors are preserved when resizing a selection of controls
- Skins are stored in a subdirectory of the project
- New UI error to indicate if a control is wrongly set as stackable
- Static Text control: Internal margins represented in the page editor.

NEW CODE EDITOR CONTROL

803 New feature WD WB WM NEW CODE EDITOR CONTROL

WEBDEV 2025 offers a control for writing or displaying WLanguage code.

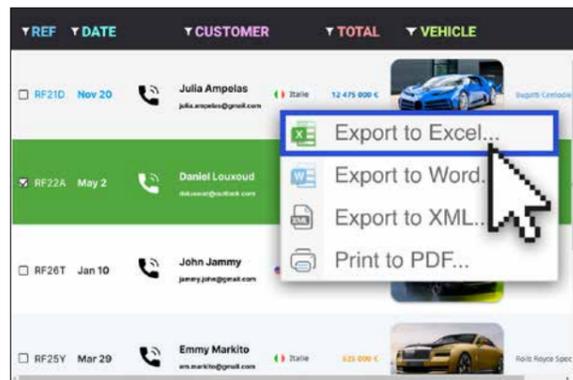
For security reasons, to be executed, this code must be dynamically compiled by the site or application.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
New control for advanced use cases

The ● icon indicates that the new feature is already available in the SaaS version released in June.

NEW FEATURES FOR CONTROLS

804 New feature WD WB WM AAF: XLSX EXPORT IN LOOPER CONTROLS



Export menu available by default in your websites

The AAF menu now includes popular export functionalities. Users can access all these options with a simple right-click. This menu can be disabled with the `AAFDisable` function.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Trust us, users will love it

805 New feature WD WB WM ANCHORS OF MULTIPLE COLUMNS IN A TABLE

You can now specify the anchoring percentage for several columns simultaneously.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Less actions in the editor

806 New feature WD WB WM CONTEXT MENU FOR TABLE, TREEVIEW TABLE AND TREEVIEW CONTROLS

In version 2025, a context menu is now available for Table, TreeView and TreeView Table controls. This opens up new functional possibilities, especially for web applications.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Practicality

807 New feature WD WB WM SELECTABLE TREEVIEW CONTROL

It is now possible to switch a TreeView control to selection mode.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Selection options

808 New feature WD WB WM AAF: XLSX EXPORT AVAILABLE BY DEFAULT FOR TABLE CONTROLS

A table displayed in a WEBDEV site can be exported to many popular formats such as XLSX, XML, Text, etc. In version 2025, this option is also available by default.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
More options available to end users

809 New feature WD WB WM MISCELLANEOUS

- PopUps in Internal Pages contained in Looper controls have been optimized.

LAYOUTS

810 New feature WD WB WM EASILY EDIT PAGES CONTAINING LAYOUTS

In version 2025, you can edit pages containing layouts in a much smoother way.

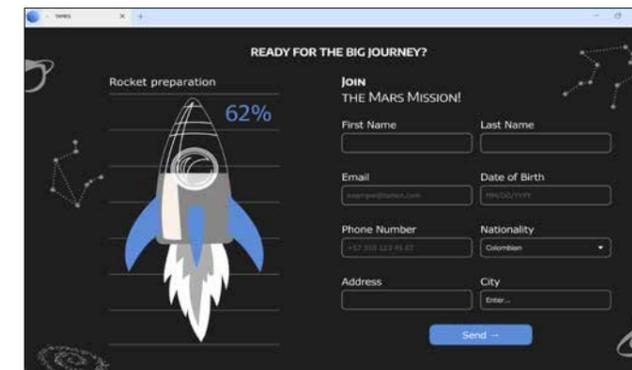
BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Easily make the most of the page editor



CHART CONTROL

811 New feature WD WB WM NEW PICTORIAL PERCENTAGE CHART

The new Pictorial Percentage chart is also available in WEBDEV. See new feature 037



Data represented in a fun way

PAGE EDITOR PERFORMANCE IN WEBDEV 2025

OVERALL RESPONSIVENESS, TEMPLATE UPDATES

812 New feature WD WB WM IMPROVED OVERALL PERFORMANCE

In version 2025, WEBDEV's development environment evolves and becomes faster and more responsive.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Open the editor and see the difference

815 New feature WD WB WM 5X TO 20X FASTER CONTROL TEMPLATE UPDATES

Templates are very often used in WEBDEV, as they make it easy to structure pages.

These templates update much faster in WEBDEV 2025.

The larger the project, the greater the difference.

For example: Updating templates for a 100-page site is 5 times faster, and 20 times faster for a 500-page site.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Sorry, you'll have less time to drink coffee

813 New feature WD WB WM 7-TABS WINDOWS OPEN INSTANTLY

In version 2025, 7-tab windows open instantly.

There's no more latency for some windows.

Sequences of actions are smoother than ever.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Better workflow

816 New feature WD WB WM LAYOUTS LOAD IMMEDIATELY IN EDIT MODE

In previous versions of WEBDEV, pages containing layouts could load more slowly.

In version 2025, the use of layouts no longer affects the responsiveness of the page editor.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Faster environment, happier developers

814 New feature WD WB WM MORE RESPONSIVE CODE EDITOR

The WEBDEV 2025 code editor also benefits from a major improvement.

In addition to all the new functions in version 2025 (see new features 088 to 107), day-to-day use is much smoother.

Combined with the speed of the 7-tab windows, this makes for a very pleasant user experience.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
The faster, the better

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

A user-friendly chart

SAAS FUNCTIONS FOR YOUR SITES



817 New feature WD WB WM MANAGE ACCOUNTS, LICENSES AND PRICING IN YOUR SAAS SITES

WEBDEV allows you to publish your websites in SaaS mode. To use this mode, simply use the **SaaS** WLanguage functions available in WEBDEV, as well as the SaaS administration site provided with WEBDEV Application Server. The new **SaaSAdminListSubscriptions** WLanguage function can be used to directly get the list of licenses for a given user.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Even more power

SINGLE-PAGE APPLICATION (SPA)

818 New feature WD WB WM OPTIMIZED ASYNCHRONOUS AJAX

SPA (Single Page Application) applications benefit from AJAX processing enhancements, as well as all the new features in WLanguage.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
WEBDEV 2025 is open to all architectures

SOCIAL NETWORKS, COMMUNICATION TOOLS

819 New feature WD WB WM WHATSAPP BUTTON

Contact our co-director now through WhatsApp to customize this model!

Chat on WhatsApp

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 2025:
Transform your WINDEV applications into websites



In version 2025, a ready-to-use WhatsApp button enables a mobile site to:

- start a chat with the contact via WhatsApp
- prefill a message.

End users can simply confirm the preset action, or write their own message.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Practicality

SERVER WLANGUAGE WL

820 New feature WD WB WM ALL THE NEW WLANGUAGE FUNCTIONS IN VERSION 2025 ARE AVAILABLE IN WEBDEV

WEBDEV Server code benefits from all the new WLanguage functions and features in version 2025.

See new features 123 to 143

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Easy cross-platform coding

New feature WD WB WM

822 to 848 SERVER CODE: 27 NEW WLANGUAGE FUNCTIONS

WLanguage is enriched by 27 new functions in Server code, as well as 47 new constants (visit WINDEV.COM for the full list).

OrganizerBackgroundColor	AuthLogout	AuthRevokeToken	AuthVerifyAuthentication
CertificateExport	CertificatePEMToPFX	DocClearFormatting	InRecycleMode
ExecuteReactiveProcedure	gpwAddUserToGroup	grPPCAddData	grPPCImage
grPPCMaximumValue	grCategoryThumbnail	HEnableSpare	HImportCSV
HListSchedulingHistory	HRplAddFile	HDataSourceKnown	HDeleteSchedulingHistory
HClearSchedulingHistory	initReportVerso	DayOfYearToDate	JSONOpenReader
PDFExtract	SchedulerBackgroundColor	GetVariableDefinition	

AWP (STATELESS)

849 New feature WD WB WM STATELESS AWP MODE

Active WEBDEV Pages are "stateless". This means there are no sessions or automations on the server.

If a session is required in this mode, it must be managed programmatically using the **DeclareAWPContext** WLanguage function. This function now accepts JSON content.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Useful in special cases

The 2025 is available!



AJAX



821 New feature WD WB WM 2 NEW FUNCTIONS: FILEDOWNLOAD & FILEVIEW

The new **FileDownload** and **FileView** functions let you download and view one or more files.

Note: The **FileDisplay** function is still available.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Essential functions for better programming

850 New feature WD WB WM ASYNCHRONOUS AJAX

Version 2025 optimizes the use of asynchronous Ajax. See new feature 859

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Optimized algorithm

JSON



851 New feature WD WB WM LARGE JSON FILES

JSON is a commonly used format in websites, particularly for REST web services.

Version 2025 automatically handles large JSON files.

See new feature 133

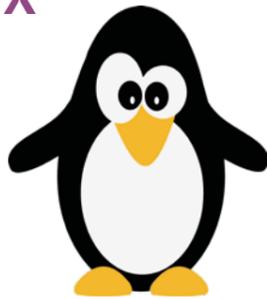
BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Power

852 New feature WD WB WM MISCELLANEOUS

- // and /* comment format supported

LINUX



853 New feature WD WB WM INTERESTING NEW FEATURES

These are some of the main new features for Linux:

- Let's Encrypt certificates available on Linux servers
- Apache version 2.4.62 support
- **DocToHTML** function now available
- etc.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

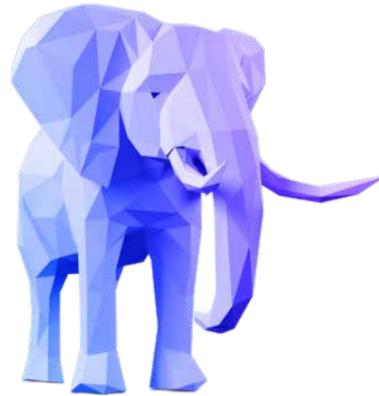
More options, more advantages

854 New feature WD WB WM 27 NEW WLANGUAGE FUNCTIONS FOR LINUX

27 new functions are available on Linux:

OrganizerBackgroundColor	AuthLogout	AuthRevokeToken	AuthVerifyAuthentication
DocClearFormatting	DocToHTML	InRecycleMode	ExecuteReactiveProcedure
grPPCAddData	grPPCImage	grPPCMaximumValue	HClusterMasterNode
HImportCSV	HListSchedulingHistory	HQueryExecuted	HRplAddFile
HRSignoreError	HDataSourceKnown	HDeleteSchedulingHistory	HClearSchedulingHistory
iAddBookmark	iInitReportVerso	DayOfYearToDate	JSONOpenReader
PDFExtract	PlanningBackgroundColor	GetVariableDefinition	

PHP



855 New feature WD WB WM PHP : 8.3.11

PHP version 8.3.11 is supported.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Greater interoperability

REST WEB SERVICES

856 New feature WD WB WM INCREASED SPEED

SOAP and REST web services created with WEBDEV 2025 are much faster.

See new feature 098

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

A truly enormous gain

857 New feature WD WB WM SECURE WEB SERVICE

REST web services created with WEBDEV 2025 can now be automatically secured using OAuth technology.

See new feature 763

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

You decide who can access what

858 New feature WD WB WM DEBUG A WEB SERVICE CONFIGURED WITH PRE-LAUNCHED SESSIONS

Version 2025 makes it easy to debug web services configured in "pre-launched session" mode from within the environment.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Useful for optimization tasks

NEW WLANGUAGE FEATURES IN BROWSER CODE



BROWSER WLANGUAGE

859 New feature WD WB WM ASYNCHRONOUS AJAX

Version 2025 optimizes the operation of asynchronous Ajax calls. The `<asynchronous>` attribute that activates the new algorithm has been optimized.

Your web sites and applications are now more responsive, which will result in a better user experience.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Discrete, yet powerful improvements

860 New WD WB WM REGULAR EXPRESSIONS

In version 2025, **RegEx** WLanguage functions are available in browser code.

This makes it possible to create control masks for content entered in browser code, before sending it to the server.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Source control

861 New feature WD WB WM MULTIPLE REPLACEMENT

The syntax used to replace multiple elements using an array of strings is now available in Browser code.

This replaces all the strings in the array with a single line of code.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Structure code directly in the control

862 New feature WD WB WM THE MENUADDOPTION FUNCTION ACCEPTS BROWSER PROCEDURES

Menu options can be added by programmatically.

It is now possible to specify a Browser Procedure as the code to be executed when an option is selected.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

More programming possibilities

New feature WD WB WM

863 to 865 MISCELLANEOUS

- `..Chrono` type now available
- Luhn algorithm verification functions now available
- `ISO8601` constant now available.

New WD WB WM

866 to 868 3 NEW PROPERTIES

Cursor	Enables you to view and modify the position of the mouse cursor in a Code Editor control.
LineCursor	Gets and sets the number of the line where the cursor is located in a Code Editor control.
CursorEnd	Enables you to find out and modify the selection end position of the mouse cursor in a Code Editor control.

New WD WB WM

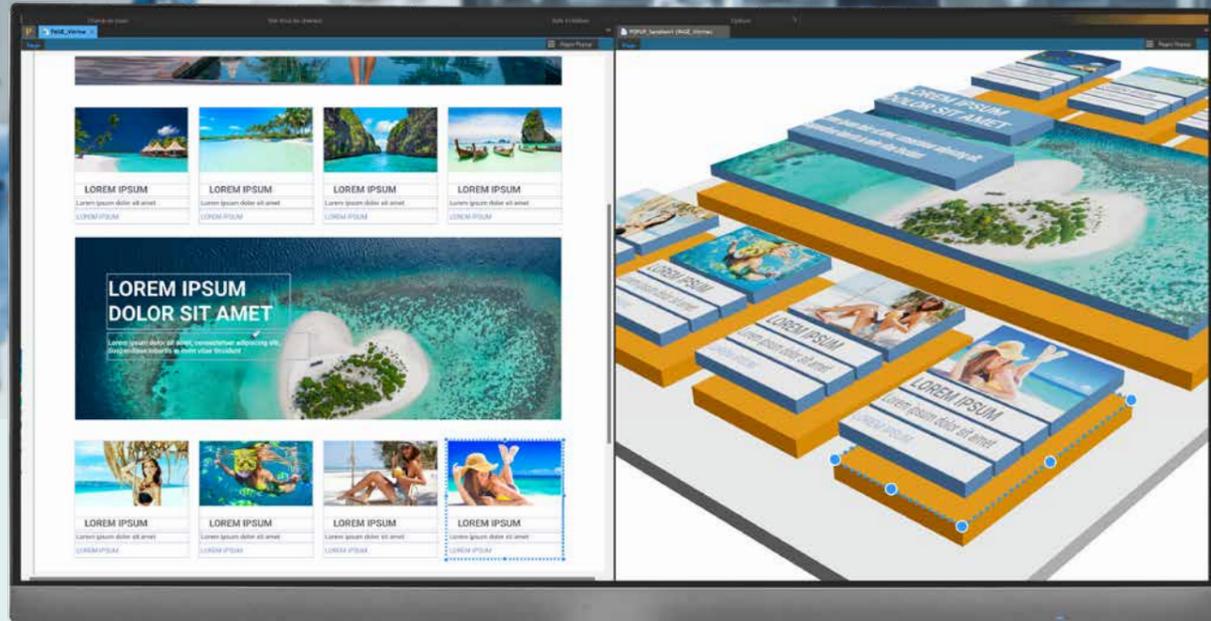
869 to 916 48 NEW BROWSER WLANGUAGE FUNCTIONS

AnsiToOem	RoundToMultiple	BufferToInteger	BufferToPhrase
BufferToReal	StringDeleteDuplicate	CompleteDir	DateToDayOfYear
UncompleteDir	Dequeue	Pop	LastDayOfYear
CodeEditorComment	CodeEditorUncomment	CodeEditorDuplicateLine	CodeEditorInsert
CodeEditorSearch	CodeEditorReplace	CodeEditorDeleteAll	EmailCheckAddress
Push	Enqueue	In64bitMode	InAWPMode
InComponentMode	InRecycleMode	InToHexa	fContentType
QueueInfo	GenerateLorem	TimeValid	HexaToInt
IBANValid	DayOfYearToDate	CurrentDay	LineToPosition
LuhnCalculate	LuhnCheck	OemToAnsi	PageCurrentLayout
PhraseToBuffer	StackInfo	PositionToLine	CapitalizeEachWord
RegexSearch	RegexReplace	RegexMatch	WeekToDate

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:

Enriched browser code

3D VISUALIZATION OF UI LAYERS



Simultaneous 2D and 3D page editing

917 New feature WD WB WM NEW 3D EXPLODED PAGE EDITING MODE

WEBDEV 2025's page editor introduces an incredible new feature: a sophisticated 3D view of page controls.

This 3D view will quickly become essential for managing container controls: Flexbox, cells, etc.

You can enable this 3D view either for the entire page, or for a given container.

You can open the description window of any control from this view.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Easily identify layers

918 New feature WD WB WM 3D VIEW MANIPULATION

This 3D view includes some essential functionalities:

- rotation
- zoom
- control separation.

This makes it easy to visualize nested and stacked controls

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Advanced editing functionalities

919 New feature WD WB WM SIMULTANEOUS 2D/3D EDITING

You have the ability to work on 2D and 3D views simultaneously. When a control is selected in one view, it is automatically selected in the other view.

It is therefore possible to select a control in the 3D view and immediately edit it in 2D.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Impressive... and useful

https

WEBSITE CERTIFICATES WITH NO EFFORT

AUTOMATICALLY USE LET'S ENCRYPT CERTIFICATES



920 New feature WD WB WM WHAT IS THE PURPOSE OF A CERTIFICATE?

The presence of a certificate on an HTTPS Internet server guarantees that users are visiting the domain they searched for. It makes it impossible to copy the domain name.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
More than essential

921 New feature WD WB WM HTTPS CERTIFICATE REQUIRED

Websites are accessible via HTTP.

HTTPS is the secure version of HTTP.

Basically, modern browsers no longer allow visiting websites that do not use HTTPS.

As a matter of fact, HTTP is not secure enough and allows, among other things, "man in the middle" attacks (theft of all data passing through the website by interfering with the connection).

Installing a website therefore requires implementing HTTPS, and therefore requires the presence of a certificate on the server.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Websites that live up to modern security standards

922 New feature WD WB WM GET A LET'S ENCRYPT® CERTIFICATE WITH WEBDEV 2025, BY DEFAULT

Let's Encrypt certificates are widely used. These are free certificates generated automatically by the ISRG organization, which is mainly financially supported by Google.

WEBDEV Application Server 2025 automatically manages:

- certificate requests
- certificate installation
- certificate renewal

This drastically reduces the need to manage site certificates.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
All administration aspects are automated

923 New feature WD WB WM EASY IMPLEMENTATION

To use a Let's Encrypt certificate on a WEBDEV server, simply check the "Automatically generate a Let's Encrypt certificate" box in the account for which the certificate is to be activated.

You can specify the domain name(s) that will be protected by the certificate.

WEBDEV Application Server 2025 takes care of everything!

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
The simplicity of WEBDEV

924 New feature WD WB WM USE OF OTHER CERTIFICATES

It is of course possible to use certificates other than Let's Encrypt certificates.

In this case, all you have to do is install and manage the certificates manually.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
WEBDEV is open to all standards

Let's Encrypt is a registered trademark of Internet Security Research Group. All rights reserved

ADMINISTRATION

925 New feature WD WB WM SEE WINDOWS EVENT ERRORS DIRECTLY IN THE ADMINISTRATOR

When the WEBDEV Application Server encounters an error, it shows the error details directly in the Windows event log. In version 2025, the WEBDEV Application Server Administrator displays the errors contained in the log, and allows you to view them directly in the Administrator.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Higher security

APPLICATION SERVER

926 New feature WD WB WM LET'S ENCRYPT IS INTEGRATED

Version 2025 makes it easy to manage Let's Encrypt certificates. Installation, operation, updates: everything is automated. See new feature 920

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Less actions required

927 New feature WD WB WM DISK QUOTA PER ACCOUNT

It is now possible to set a limit to the disk space occupied by a WEBDEV account. This space contains the site itself and any data it may contain. You can set this limit in the Hosting Control Center.

Maximum number of REST web services:	<input type="text" value="0"/>
Maximum number of WebSocket servers:	<input type="text" value="0"/>
<input checked="" type="checkbox"/> Set a quota on the disk space used	
Disk quota (GB):	<input type="text" value="50"/>

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Allocated space for everyone

928 New feature WD WB WM MISCELLANEOUS

- WDScrip has been integrated to run WLanguage scripts on the Application Sever.

WEBDEV CLUSTER

929 New feature WD WB WM IMPROVED PROXY CONFIGURATION FILE

To configure a WEBDEV Application Server cluster, you need to set up a proxy server. This proxy is a third-party software. An HAProxy configuration file is provided. In version 2025, the configuration file generation offers additional options.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Cleaner, easier configuration

DOCKER DEPLOYMENT



930 New feature WD WB WM DEBIAN 12

The docker image is now based on Debian 12.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Take advantage of Debian's new features

WEBSITE DEPLOYMENT

931 New feature WD WB WM NON-BLOCKING DEPLOYMENT

Deployment may take long, depending on the size of the site to be deployed, and the number of servers on which it will be deployed. To avoid blocking the environment, version 2025 supports deployments in the background. A report is displayed at the end of the task.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Higher performance

932 New feature WD WB WM URL POINTING TO A SERVER: WHICH SITE TO LAUNCH?

When a URL points directly to a server without specifying the site name, it is not possible to determine which site should be launched.

In version 2025, you can specify the site that should be launched by default, directly in the deployment wizard. This avoids displaying the web server's default page.

BENEFIT OF THIS NEW FEATURE IN VERSION 2025:
Improved security

933 New feature WD WB WM MISCELLANEOUS

- The Installation wizard is now available in 64-bit version. There is no longer a limit to the number of files.

HOST YOUR SITES IN WEBDEVDRIVE WITH 3 CLICKS

You can host your sites in WEBDEVDrive, quickly and effortlessly. Take advantage of our subscription prices. Subscribe now to host your websites at a competitive price.

www.webdevdrive.com

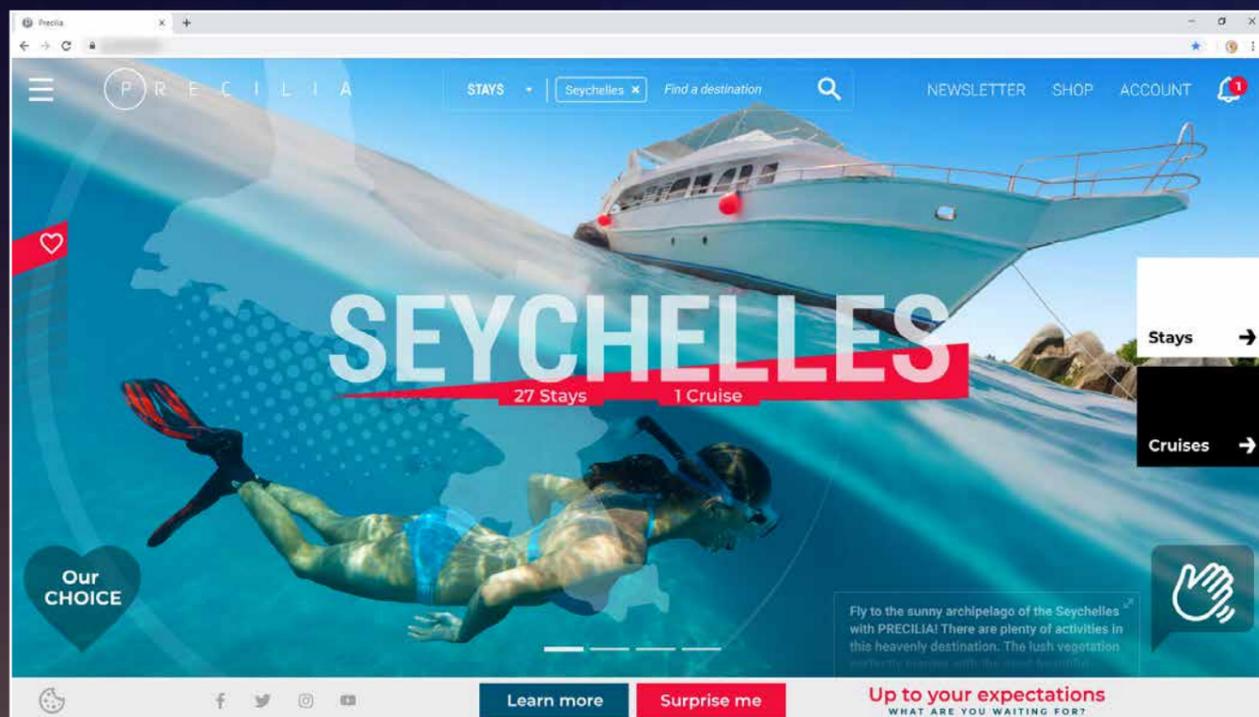
AND MUCH MORE...

934 New feature WD WB WM AND MANY OTHER NEW FEATURES

Version 2025 includes many other new features that you will discover once you order and receive your software or subscription...



VERSION 2025, A SEA OF NEW FEATURES



FASTER
AND
MORE SECURE
APPLICATIONS IN
VERSION

2025

Unique code for Windows, Internet, HTML5,
Linux, Java, .Net, PHP, Mac, web services,
Android, iOS, Cloud, SaaS and more.

**TECHNOLOGY DOES NOT WAIT:
SUBSCRIBE OR ORDER
VERSION 2025 TODAY**

AVAILABLE
FROM 2024

Subscribe to SaaS version, which includes version 2025. Note that owning a previous version entitles you to a substantial discount on the initial subscription fee. Or order your 2025 version today! Any purchase of WINDEV 2024 or WEBDEV 2024 or WINDEV Mobile 2024 (excluding upgrades) on or after 1/9/2024 entitles you to a free upgrade (package and manuals) to the corresponding version 2025, as soon as it becomes available. Any purchase of an update to version 2024 after 1/9/2024 entitles you to version 2025 (package and manuals) for the difference in update price (excluding shipping costs). New versions are being announced now so you can plan ahead and avoid spending time developing features that will be included in the software. Some features may not be available as soon as the version is shipped, but will be offered later as downloads. Also note that additional improvements and new features other than the ones described in this document may be available in the new version. WINDEV, WEBDEV and WINDEV Mobile are professional software products. The amount of new features adds up to more than 925 since certain new features are related to multiple subjects and are presented more than once. Despite the care taken during the writing process, this is a non-contractual document. Screenshots and lists are for illustration purposes only. Don't hesitate to contact us for any additional information or to learn more about a new feature. All the trademarks mentioned in this publication are registered trademarks of their respective owners.

Documentation version: 101

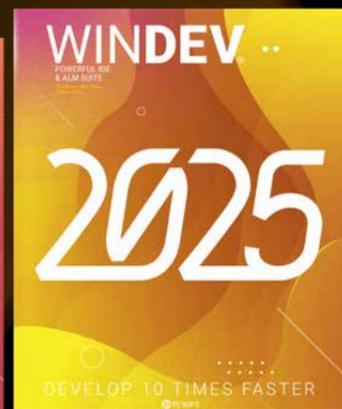


WINDEV WEBDEV WINDEV
Mobile



2025

Unique code for Windows, Internet, HTML5, CSS,
Linux, Mobile, Java, .Net, PHP, Mac, web services,
Android, iOS, Cloud, SaaS, and more.



DEVOPS
IDE