
Ver: 6.4.7 EW 23514/IDE-1380

Creating or editing configurations in the Memory Configuration dialog box when running a session in Japanese could cause IAR Embedded Workbench to exit unexpectedly. This has been corrected.

Ver: 6.4.7 EW 23500/IDE-1366

The commands Next/Previous Bookmark now wrap at the beginning and the end of the document.

Ver: 6.4.6 EW 23474/IDE-1359

In some cases stopping execution in the heavily optimized code could cause the debugger to exit abnormally. This has been corrected.

Ver: 6.4.6 EW 23471/IDE-1358

Executing the context menu command "Force" on a vacant area in the "Forced Interrupt" window caused the debugger to exit unexpectedly. This has been corrected.

Ver: 6.4.6 EW 23454/IDE-1353

The "Project>Import File List..." dialog box in the Japanese version of IAR Embedded Workbench did not show *.ewp files by default. This has been corrected.

Ver: 6.4.6 EW 23451/IDE-1354

It is no longer possible in the Memory Configuration Window to enter an end address that is lower than the start address.

Ver: 6.4.6 EW 23441/IDE-1361

When the downloaded application does not contain any C variables (with static storage duration), the I-jet driver will no longer issue a warning about finding no variables in memory designated as RAM.

Ver: 6.4.6 EW 23428/IDE-1345

Strings and C/C++-style comments were not colored in assembler files. This has been corrected.

Ver: 6.4.6 EW 23330/IDE-1356

C-SPY could misinterpret certain flags in an ELF file and consider some read-only segments writable. This could interfere with memory integrity checks when launching a debug session. This has been corrected.

Ver: 6.4.5 EW23409/IDE-1333

The text editor will now correctly reload files that were opened as read-only.

Ver: 6.4.5 EW23403/IDE-1332

The "Memory Restore" command did not work in some cases for the Motorola format. This has been corrected.

Ver: 6.4.5 EW23378/IDE-1328

Defining a typedef and a struct using the same identifier caused the source browser to stop working. This has been corrected.

Ver: 6.4.5 EW23341/IDE-1332

The Memory window lost focus when editing memory content after entering one unit. This has been corrected.

Ver: 6.4.5 EW23336/IDE-1330

Sometimes the localized (Japanese) strings were garbled in the Watch window. This has been corrected.

Ver: 6.4.5 EW23334/IDE-1331

The horizontal scrollbar in the editor window did not show all of a very long line. This has been corrected.

Ver: 6.4.5 EW23261/IDE-1317

It is now possible to restore an srec/hex file via the debugger using the "Debugger>Memory>Restore" command.

Ver: 6.4.5 EW23085/IDE-1267

Specifying the "General Options->Output->Executables/libraries" path with a trailing space caused IAR Embedded Workbench to quit unexpectedly. This no longer occurs.

Ver: 6.4.4 EW23343/IDE-1325

A project in an initial stage (with missing source files) may crash the source browser when doing a Rebuild. This has been corrected.

Ver: 6.4.2 EW23324/IDE-1318

Input via a non-Latin keyboard (e.g. Cyrillic) was not working. This has been corrected.

Ver: 6.4.2 EW23285/IDE-1319

The editor could become sluggish when operating on files located on a slow network drive. Speed has been improved by changing the behavior of file monitoring (i.e. detecting file changes made externally).

Ver: 6.4.2 EW23283/IDE-1320

The IDE could crash when a leaf was double clicked in the Code Coverage window, because of a missing path in the editor view. This has been corrected.

Ver: 6.4.2 EW23278/IDE-1305

Caret color is now set to white if the background is dark, and black otherwise.

Ver: 6.4.2 EW23276/IDE-1303

The editor no longer tries to identify special comments like '///!' or '///' (e.g. Doxygen or javadoc comments). Now everything after '//' is handled as a normal C++ comment.

Ver: 6.4.2 EW23265/IDE-1301

The Find/replace operation generated a sound for each replacement. Now a beep is emitted during a replace operation only when the document is read-only.

Ver: 6.4.2 EW23253/IDE-1296

Reloaded editor files were incorrectly scrolled to the beginning. They are now opened at the expected location.

Ver: 6.4.0 EW23157

Setting the editor font to "Terminal" resulted in "Courier" instead. This has been corrected.

Ver: 6.4.0 EW23144

Opening the Symbolic Memory window when debugging an RVDS-built application that contains union data members without a location attribute, caused C-SPY to exit unexpectedly. This has been corrected.

Ver: 6.4.0 EW23111

A failed post-build step was not included in error count displayed in the status bar. This has been corrected.

Ver: 6.4.0 EW23041

Setting/clearing breakpoints on the lowest line in the Disassembly window by clicking on the leftmost column now works correctly in all cases.

Ver: 6.4.0 EW22949

The following construction:

```
#define INCLUDE <stdio.h>
#include INCLUDE
int main(void)
{
.....
```

could cause the source browser to fail to find the definition of 'main'. This no longer occurs.

Ver: 6.4.0 EW22820

The Timeline window was not updated correctly when data log breakpoints were enabled/disabled during a debug session. This has been corrected.

Ver: 6.4.0 EW22519

The context menu command "Go to definition" could fail if the function was defined in a header file. This has been corrected.

Ver: 6.4.0 EW22502

Copying an expression in the Live Watch window and pasting it into the Watch window could make the debugger exit abnormally. This no longer occurs.

Ver: 6.4.0 EW22368

If a source file contained a preprocessor directive that was surrounded by a parentheses, the list of functions might be empty when you clicked the Go to function button in the editor window. This has been corrected.

Ver: 6.4.0 EW22351

The source browser could cause the IDE to become unresponsive if the license for the compiler could not be verified. This no longer occurs.

Ver: 6.4.0 EW21962

Printing a multipage selection in the editor window that did not start at the beginning of a line and/or end at the end of a line could fail to print all selected content. This has been corrected.

Ver: 6.4.0 EW21643

Editor line numbers exceeding 5 digits were partly displayed outside the line number column. This has been corrected.

Ver: 6.4.0 EW19865

The following code caused the "Go to function" button to malfunction:

```
#ifdef SOMETHING
if (condition_1) {
#elif
if (condition_2) {
#endif
```

This has been corrected.

Ver: 6.3.18 EW23123

C-SPY could exit unexpectedly when stepping through heavily optimized code containing cross calls. This has been corrected.

Ver: 6.3.17 EW23081

Choosing Debug>Memory>Save/Restore while the target was running could produce incorrect data. These operations are now disabled when the target is running.

Ver: 6.3.17 EW23031

It was impossible to set the offset on the Project>Options>Debugger>Images page to a value greater than 0x7FFFFFFF. This is possible now.

Ver: 6.3.17 EW22969

Previously IAR Embedded Workbench did not remember a connection to some source control systems (for example ClearCase) between sessions. This has been corrected.

Ver: 6.3.16 EW23009

The Interrupt Log Summary window could show uninitialized content directly after debugging session started. This has been corrected.

Ver: 6.3.15 EW22923

In some cases executing multiple Page Up commands in the Disassembly window could cause the code to be disassembled incorrectly. This has been corrected.

Ver: 6.3.15 EW22901

The contents of the Statics window were not filtered when it was opened after the start of a debugging session. The correct contents were not displayed until after a window update (for example after executing a step command). This has been corrected.

Ver: 6.3.15 EW22868

Trying to load a file that contains modules produced with gcc could cause the IDE to crash. This has been corrected.

Ver: 6.3.14 EW22920

The Source Browser failed to browse include files specified with an absolute path. This has been corrected.

Ver: 6.3.14 EW22893

The IAR Embedded Workbench integration with Subversion could misinterpret some Subversion version 1.7.x messages, which resulted in the internal error:

"SVN: Internal Error: SVN_Status - did not find file".

This has been corrected..

Ver: 6.3.12 EW22795

Function-like macros with zero parameters caused the Source Browser to lose the definition following the macro.

For example, after this definition:

```
#define MACRO() macro_body
```

x in the following lines would not be recognized the Source Browser:

```
MACRO()  
int x;
```

This has been corrected.

Ver: 6.3.12 EW22784

The debugger might close unexpectedly during long trace acquisition (several hours) in the time line window. This no longer happens.

Ver: 6.3.12 EW22775

Parsing large ORTI description files could cause the ORTI plugin to fail with a "memory exhausted" message. This has been corrected.

Ver: 6.3.12 EW22710

If a path for the build log file contained an argument variable (like "\$PROJ_DIR\$) and the "Overwrite old file" option was selected, the log was still appended to the existing file. This has been corrected.

Ver: 6.3.10 EW22766

In some cases, single stepping or running to breakpoints when the Call Stack window is open could make the IDE unresponsive. This has been corrected.

Ver: 6.3.10 EW22764

If you used two or more monitors, ending a debug session with the main IDE window open on one monitor but the Disassembly window on another monitor, IAR Embedded Workbench could terminate unexpectedly when you restarted the debug session. This has been corrected.

Ver: 6.3.10 EW22667

In Watch windows, pointers to ARM Thumb functions now correctly show the function name.

Ver: 6.3.10 EW22609

Files in editor panes were not always restored to the correct panes. This has been corrected.

Ver: 6.3.10 EW22528

A minor memory leak when using the source browser has been fixed.

Ver: 6.3.10 EW22494

The date and time format used in the Product Info dialog was operating system dependent. It now has a fixed format using UTC time to make it easy to compare the contents of different installations.

Ver: 6.3.10 EW19961

Evaluation of a cast expression in C-Spy, containing a plain char, such as "(char *)42" when the target program does not use the plain char type anywhere, could result in crash. This has been corrected.

Ver: 6.3.10 EW19781

The name of the currently opened workspace is now displayed along with the Embedded workbench name in the Windows Taskbar and Task Manager

Ver: 6.3.6 EW22665

Using the `setSimBreak` macro to set a "write" breakpoint ("W") resulted in breakpoints set as "read" ("R") instead. This has been corrected.

Ver: 6.3.5 EW22610

The checkmark in front of the "Mixed-Mode" entry on the Disassembly window context menu had been lost. It is back now.

Ver: 6.3.3 EW22496

The Stack window no longer crashes upon opening when, under certain circumstances, C-Spy has insufficient information about target system stacks to display stack information as intended.

Ver: 6.3.2 EW22463

The command 'Undo Checkout' in the Version Control System submenu for SCC did not work. This has been corrected.

Ver: 6.3.1 EW22409

If the Watch window was not already open, executing "Add to Watch" on a selection in the editor window just opened the Watch window without adding an entry to it. Now it does.

Ver: 6.3.1 EW22401

A build problem where argument variables, in some circumstances, were not expanded relative to the configuration actually being built has been corrected

Ver: 6.3.1 EW22394

A malfunctioning automatic horizontal scroll feature when dragging a selection from the editor window to the left or the right has been turned off.

Ver: 6.3.0 EW22342

If two or more IAR Embedded Workbench toolchains (for different microcontroller architectures) were installed in the same directory, and some of the toolchains were only available in English, launching IAR Embedded Workbench in a non-English language meant that the Information Center was not available for English-only toolchains. This has been corrected.

Ver: 6.1.7 EW22305

The dialog box used for choosing a directory from the Find in Files dialog box had wrong dialog box title and button name. This has been corrected.

Ver: 6.1.6 EW22203

Errors and warnings detected when building were reported as twice as many they really were. This has been corrected.

Ver: 6.1.6 EW22178

Recursive definitions of a preprocessor macro no longer causes IAR Embedded Workbench to terminate abnormally.

Ver: 6.1.6 EW22127

Large and complex projects no longer cause the IAR Embedded Workbench source browser to freeze.

Ver: 6.1.6 EW22076

The IDE command "Stop Build" now works properly when it is applied to pre- or post build actions when they are started in a new command shell.

Ver: 6.1.5 EW22182

Type definitions containing pointers to functions could produce incorrect debug information leading to unexpected IAR Embedded Workbench termination when the debugger was started. This has been corrected.

Ver: 6.1.5 EW21536

The "Go to definition" command applied to a symbol which definition was located in a conditionally included header file could fail. This has been corrected.

Ver: 6.1.4 EW22164

Invoking project build commands could cause the IAR Embedded Workbench to freeze under Windows7. This has been corrected.

Ver: 6.1.3 EW22211

The IAR Embedded Workbench IDE sometimes failed to delete temporary files named EWnnnn in the project Obj and List directories when they were no longer needed. This no longer occurs.

Ver: 6.1.3 EW22156

IAR Embedded Workbench could leak GDI (Graphics Device Interface) objects in some cases. This no longer occurs.

Ver: 6.1.3 EW22125

In some cases, when using trace based data features, executing an application in the debugger over a long time could result in a "Runtime Error!" message and abrupt IAR Embedded Workbench termination. This no longer occurs.

Ver: 6.1.3 EW22116

IDE Embedded Workbench could terminate unexpectedly when changing editor font type or/and size. This has been corrected.

Ver: 6.1.0 EW22005

The "Project>Options>Linker>Output>Output file:" text box accepted a file path instead of just a filename which could lead to project building problems. This has been corrected and the option has been renamed.

Ver: 6.1.0 EW21924

A serious memory leak could lead to IAR Embedded Workbench abnormal termination. This has been corrected.

Ver: 6.1.0 EW21916

A variable declared in an assembler source file could be given an incorrect address when it was displayed in a Watch window. This has been corrected.

Ver: 6.1.0 EW21869

Namespaces could not be used when the IAR C-SPY Debugger resolved names. This has been corrected.

Ver: 6.1.0 EW21862

There was a redundant warning when the flash loader checked for the presence of arguments. This warning is no longer issued.

Ver: 6.1.0 EW21840

Using a path containing "." to defined output directories could make it impossible to start the debugger. This has been corrected.

Ver: 6.1.0 EW21751

Corrupt .wsdt and .dbgdt files in a project's settings directory could cause IAR Embedded Workbench to quit unexpectedly. Now, if this situation occurs, the IAR Embedded Workbench IDE reverts to default layouts.

Ver: 6.1.0 EW21646

A file path exceeding the _MAX_PATH Windows limit could cause the IAR Embedded Workbench to freeze or quit unexpectedly. Now such situations are detected and flagged as errors.

Ver: 6.0.6 EW22150

IAR Embedded Workbench could terminate unexpectedly when reloading a project that had been externally modified if the project being reloaded needed to be converted to a newer version. This has been corrected.

Ver: 6.0.0 EW19988

Variables of array, struct, union or class type placed at an absolute address were not displayed properly in the Watch window family. This has been corrected.

Ver: 5.8.1 EW21923

Applying format alternative from "Trace expression window" context menu to an empty row caused the IAR Embedded Workbench to exit unexpectedly. This has been corrected.

Ver: 5.6.3 EW21715

Large and complex projects could cause the IAR Embedded Workbench source browser to freeze. This has been corrected.

Ver: 5.6.3 EW21660

Construction like

```
extern struct ST s;
```

could make contents of "Go to Function" window incorrect. This no longer happens.

Ver: 5.6.3 EW21603

Incorrect address of members of anonymous structs and unions was shown in the Live Watch window. This has been corrected.

Ver: 5.6.3 EW21589

Instantiated code templates were stripped of multiple blanks. This no longer happens.

Ver: 5.6.2 EW21532

If you exited the debugger while the application was running and the option "Leave Target Running" is selected, an incorrect stack threshold exceeding warning was issued. This no longer happens.

Ver: 5.6.2 EW21491

Adding a file to a project will now use the current case of the file name, even if it was previously included in the project with another case.

Ver: 5.6.0 EW21413

Opening a context menu in the Editor window will no longer produce strange error entries in the Debug Log window.

Ver: 5.6.0 EW21154

Negative values of long long type greater than $(2^{31})-1$ (absolute) can now be entered manually in the Watch window.

Ver: 5.6.0 EW20856

There was a problem when switching from multi-file compilation mode to single-file compilation, causing the error "Build error: Multiple tools write to the same file" to be issued. This problem has been corrected.

Ver: 5.6.0 EW20276

Breakpoints with the path not under \$PROJ_DIR\$ were not saved with relative paths. Paths on the same drive are now always saved as relative to \$PROJ_DIR\$, regardless where the file resides (unless it is actually under \$TOOLKIT_DIR\$, in which case it will be relative to \$TOOLKIT_DIR\$).

Ver: 5.5.5 EW21391

Dragging an expression containing a dereferenced function pointer onto the Memory window no longer causes the debugger to crash.

Ver: 5.5.4 EW21255

The source file paths retrieved from the externally built ELF/DWARF object file are now correctly interpreted by the debugger.

Ver: 5.5.3 EW21331

Sometimes, during downloading to flash memory, the IDE could become unresponsive. This has been corrected.

Ver: 5.5.3 EW21301

Sometimes, while stepping in a complex C++ program, the displayed source code location did not reflect the current program counter. This has been corrected.

Ver: 5.5.0 EW20980

A rare problem with downloading files in the Motorola S37 format into the wrong memory location has been corrected.

Ver: 5.4.3 EW20902

In some cases, during initialization of the Stack plugin immediately after downloading the ELF/DWARF input file, the Embedded Workbench IDE exited unexpectedly. This has been corrected.

Ver: 5.4.3 EW20824

A C/C++ macro definition containing a '#' character no longer causes the IAR Embedded Workbench IDE to exit unexpectedly.

Ver: 5.4.1 EW20780

An '#undef' preprocessor directive not followed by a preprocessor symbol no longer causes the IAR Embedded Workbench IDE to exit unexpectedly.

Ver: 5.4.0 EW20752

The Embedded Workbench could crash if a large selection in the text editor was right-clicked. This has been corrected.

Ver: 5.4.0 EW20703

It is now possible to right-click a breakpoint in the Editor and Disassembly windows to open the Edit Breakpoint dialog box.

Ver: 5.4.0 EW20488

The ILINK checksum fields "Alignment" and "Initial value" are now correctly enabled and disabled.

Ver: 5.4.0 EW20486

The value of bit field variables located in the anonymous structure/union could be incorrectly shown in the Live Watch window. This has been corrected.

Ver: 5.4.0 EW20397

It is now possible to resize the Goto Function dialog of the Text Editor. The function list in the dialog is also sorted alphabetically.

Ver: 5.4.0 EW20269

The C-SPY macro " openFile (input_file, "r+b")" could fail if the input_file had the read only attribute set. This has been corrected.

Ver: 5.4.0 EW20237

There was no way to select the checksum algorithm sum32 in "Project>Options>Linker>Checksum". This has been corrected.

Ver: 5.4.0 EW20108

When the execution has stopped at a breakpoint, the corresponding breakpoint entry in the Breakpoints window is marked by the green arrow.

Ver: 5.3.4 EW20940

The debugger could become inresponsive when attempting to display large floating-point values. This has been corrected.

Ver: 5.3.3 EW20668

The "Clean" command sometimes failed to remove compiler-generated list files. This has been corrected.

Ver: 5.3.3 EW20660

It was impossible to browse to a location in the source file when creating a new code breakpoint. This has been corrected.

Ver: 5.3.3 EW20546

Value of 64-bits large double numbers could be incorrectly displayed when using the default display format. This has been corrected.

Ver: 5.3.3 EW20497

An incorrect \$ variable like \$FILE_PATHB\$ used in custom build definitions could lead to crash. This has been corrected.

Ver: 5.3.3 EW20202

The sizes of the windows in the IAR Embedded Workbench IDE were not restored properly if the application was minimized when it was closed.

Ver: 5.3.3 EW19825

If a debug file has changed between sessions, all absolute user breakpoints are disabled and a log is issued to this effect.

Ver: 5.3.3 EW19178

If the IAR Embedded Workbench IDE was placed partly outside the screen or minimized when it was closed the dialog box asking for confirmation of termination of a debug session could appear outside the screen.

Ver: 5.3.2 EW20573

The command line utility cspybat.exe downloaded code to memory after the flashloader download which could cause problems in some hardware. This has been corrected.

Ver: 5.3.1 EW20530

The flashloader based on a previous flashloader framework could not properly be invoked from Cspybat.exe. This has been corrected.

Ver: 5.3.1 EW20425

If an input expression in the "Linker configuration file editor" dialog box contained space or tab characters, it could be incorrectly evaluated to 0. This has been corrected.

Ver: 5.3.1 EW20339

Opening the Code Coverage window in the Japanese language version no longer causes the Embedded Workbench IDE to exit unexpectedly.

Ver: 5.3.0 EW20112

Circular #include preprocessor directives could make the IDE unresponsive. This has been corrected.

Ver: 5.3.0 EW20103

A multiple failure to open a file using the 'fopen()' library function could use up all available file handles. This no longer occurs.

Ver: 5.3.0 EW20039

C-SPY no longer crashes when accessing certain pointer-to-member variables.

Ver: 5.3.0 EW19869

Some RealView 3.1 generated ELF/DWARF formatted files could be incompatible with C-SPY debugger. This resulted in an error:

ELF/DWARF Error: Unsupported .debug_info format version:5660

This has been corrected.

Ver: 5.3.0 EW19816

An illegal instruction executed in a tight loop generated an excessive warning output to the Debug Log window. This could render the debugger unresponsive. This has been corrected.

Ver: 5.3.0 EW19748

The fill pattern can now be of any length as long as it is composed of full bytes, but must be given in hexadecimal notation, starting with 0x.

Ver: 5.2.9 EW19880

The Embedded Workbench IDE could terminate abnormally if the application JAWS from Freedom Scientific was running concurrently. This has been corrected.

Ver: 5.2.8 EW20152

In some cases, evaluating variables of the type complex structures, for example via ToolTip, could lead to an abnormal termination of the IDE session. This has been corrected.

Ver: 5.2.7 EW20133

A modulo operator with a 0 divisor within preprocessor directives could cause the IDE to terminate abnormally. This has been corrected.

Ver: 5.2.5 EW19942

The "New Breakpoint..." dialog would occasionally become too large, partially hiding window contents. This has been corrected.

Ver: 5.2.5 EW19806

An incorrect preprocessor directive in the form of

```
#define X(y) #x
```

could make the Embedded Workbench terminate abnormally. This has been corrected.

Ver: 5.2.0 EW20179

The workspace file did not save relative paths to project files that were outside/above the workspace directory. This has been corrected.

Ver: 5.2.0 EW19877

Builds no longer fail if the paths of any of the output directories use the \$WS_DIR\$ variable.

Ver: 5.1.1 EW19773

The IAR Embedded Workbench IDE could become unresponsive if recursive macros were used in a preprocessor expression with the "Generate browse information" selected in the IDE options dialog box. This has been corrected.

Ver: 5.1.1 EW19771

If you open the Find in Files dialog box with unsaved files open, you will be asked how to proceed with the unsaved files. Previously, if there was selected text in an editor window when you opened the Find in Files dialog box, it would be deselected after you had taken care of the unsaved files. This has now been corrected, and the selection still exists when you return to the Find in Files dialog box.

Ver: 5.1.1 EW19623

The Build log file now contains also the file name and line number where applicable.

Ver: 5.1.0 EW20114

Editor "Go to Function" failed in code containing "namespace". This has been corrected.

Ver: 5.1.0 EW19704

Selecting the "Treat all warnings as errors" linker option generated multiple "--warnings_are_errors" flags to ILINK.

This has been corrected.

Ver: 5.1.0 EW19689

The project manager maintains a number of variables, such as \$PROJ_DIR\$ or \$TOOLKIT_DIR\$, which can be used in project options (and other places) and which are expanded to strings as appropriate. If you specify a variable on the form \$_NAME_\$, it will now be expanded to the value of the environment variable named NAME.

Ver: 5.1.0 EW19670

A source line containing only '#define' but nothing more could cause the IAR Embedded Workbench IDE to exit abnormally. This has been corrected.

Ver: 5.1.0 EW19625

A problem with adding additional libraries on the ILINK "Library" page has been corrected.

Ver: 5.1.0 EW19619

If a .c file contains a time stamp, using the TIME macro, it is desirable that the file is recompiled each time a project is built. One easy way to accomplish this is to render the .c file "not up to date" in the prebuild build action (in the Project>Options dialog.), for example by using 'touch' on the source file or removing the object file. A bug has been fixed which prevented this technique from working properly (it used to require two invocations of Make to bring a project up to date).

Ver: 5.1.0 EW19615

Tooltips for variables in the editor window now reflect the global default integer format.

Ver: 5.1.0 EW19614

When a debug session is active, files will now normally open in the built-in text editor even if an external editor has been specified.

Ver: 5.1.0 EW19609

The pragma directive "#warning" is now correctly highlighted by the text editor.

Ver: 5.1.0 EW19608

The `openFile` C-SPY macro function can now use the value "b" for the access parameter to open files in binary mode. This makes it possible for the C-SPY macro function `writeFileByte` to handle binary files correctly. Allowed `openFile` access parameter combinations are:

r, r+, rb, rt, rb+, rt+, r+b, r+t
a, a+, ab, at, ab+, at+, a+b, a+t
w, w+, wb, wt, wb+, wt+, w+b, w+t

Ver: 5.1.0 EW19607

The `openFile` C-SPY macro function can now use the value "b" for the access parameter to open files in binary mode. This makes it possible for the C-SPY macro function `readFileByte` to handle binary files correctly. Allowed `openFile` access parameter combinations are:

r, r+, rb, rt, rb+, rt+, r+b, r+t
a, a+, ab, at, ab+, at+, a+b, a+t
w, w+, wb, wt, wb+, wt+, w+b, w+t

Ver: 5.1.0 EW19590

Symbol #CYCLES is now also available when debugging files in intel-extended and motorola formats using simulator

Ver: 5.1.0 EW19576

A problem with file sharing violations between the Source Browser and Find in Files has been corrected.

Ver: 5.1.0 EW19566

Problems with entering multiple lines of text in the Check-In dialog comment field has been corrected.

Ver: 5.1.0 EW19562

A number of key bindings issues have been fixed.

Ver: 5.1.0 EW19556

When navigating in the Source Browser by typing the first few letters of a symbol, the topmost item (the project name) is now ignored.

Ver: 5.1.0 EW19552

Changing output directories could temporarily result in build problems. This has been corrected.

Ver: 5.1.0 EW19543

In some cases, references were incorrectly shown in the QuickWatch, Watch and Locals windows. This has been corrected.

Ver: 5.1.0 EW19532

If you based a new project build configuration on an old configuration, and the project contained files that had been excluded from the old configuration, these files would incorrectly be included in the new configuration. This has been corrected.

Ver: 5.1.0 EW19531

The editor function browser did not recognize functions within the 'namespace' block. This has been corrected.

Ver: 5.1.0 EW19523

The text editor now reloads externally modified files correctly.

Ver: 5.1.0 EW19486

Deselecting "Automatic runtime library selection" will now add the "--no_library_search" options to the ILINK command line.

Ver: 5.1.0 EW19464

C-SPY no longer crashes if a C-SPY macro invoked by a breakpoint deletes the very same breakpoint.

Ver: 5.1.0 EW19461

If there are unsaved files when the building of a project is started, you are now given a chance to save none/all/some of the files or cancel the operation.

Ver: 5.1.0 EW19455

Division by 0 within preprocessor directives could cause IAR Embedded Workbench to terminate abnormally. This has been corrected.

Ver: 5.1.0 EW19448

The ILINK configuration file editor no longer loses data at the end of the file each time it is edited.

Ver: 5.1.0 EW19371

It is now possible to choose a background color for editor windows.

Ver: 5.0.1 EW19535

While debugging, multiple instances of the same file could be opened if its path contained non-ASCII characters. This has been corrected.

Ver: 5.0.1 EW19459

In some situations the Embedded Workbench could crash when the Find in Files dialog was opened. This has been corrected.

Ver: 4.8.4 EW19783

Problems with entering multiple lines of text in the Check-In dialog comment field has been corrected.

Ver: 4.8.4 EW19235

Tool-tip watch, 'Quick Watch' and 'Add to Watch' did not work unless the function or variable was marked. This has been corrected.

Ver: 4.8.3 EW19007

In some situations, edit boxes were left unclosed when repeatedly clicking in a window with editable contents.

Ver: 4.8.3 EW18927

Clicking the vertical scrollbar in the Disassembly window multiple times could earlier lead to incorrect behaviour.

Ver: 4.8.3 EW18891

Floating windows placed on the secondary monitor outside the IAR Embedded Workbench IDE main window will now be centered on the primary display monitor if moving from a system with two display monitors.

Ver: 4.8.3 EW18726

When a project file is opened, the IDE now detects if it has been modified since it was last opened, and if so, will make the next build a complete rebuild.

Ver: 4.8.3 EW18660

In a custom build rule, the files listed in "Additional input files" were not always checked correctly when determining if the rule should be applied during a build operation. This has been corrected.

Ver: 4.8.3 EW18314

Using nested C++ types in the following code example no longer leads to abnormal debugger termination.

Example:

```
template <class T>
class A
{
    T* data;
};
class B : public A<B>
{
};
int main(void)
{
    B b;
    return 0;
}
```

Ver: 4.8.3 EW13522

The project manager now detects when open project files are modified on disk, and gives an opportunity to reload them.

Ver: 4.8.1 EW19018

When downloading or restoring the memory contents from a Motorola S37 formatted file, the highest address byte was always set to 0. This has been corrected.

Ver: 4.8.0 EW18946

The IAR Embedded Workbench no longer crashes when you type a colon or a semicolon followed by a return character in an otherwise empty source file.

Ver: 4.8.0 EW18746

A very rare problem in IAR Embedded Workbench, that could delete project files if a project directory was moved, has been corrected.

Ver: 4.8.0 EW16369

A problem where the Profiling plug-in module did not remember its state has been corrected

Ver: 4.7.2 EW18554

The debugger no longer terminates abnormally if the Profiling functionality is activated and when there are too few breakpoints available.

Ver: 4.7.1 EW18463

Placing a variable using the '@' operator at an address outside the defined address space could cause the debugger to exit unexpectedly. This has been corrected.

Ver: 4.7.1 EW18358

Adding a trailing semicolon to the 'File types' list box in the Find in Files dialog box, no longer causes the Embedded Workbench IDE to exit unexpectedly.

Ver: 4.7.1 EW18352

If the debugger, when terminating a debug session, failed to stop the target execution, a crash could occur. This has been corrected.

Ver: 4.7.1 EW18351

Missing an swtdXXX.dll file no longer causes project files to be backed up every time the project is opened.

Ver: 4.7.1 EW18340

A problem where the Stack window could cause a crash when a debug session started has been corrected.

Ver: 4.7.1 EW18329

Flash loader warnings in the debugger log were easy to miss among all other log output, which could make errors difficult to understand. This has been corrected.

Ver: 4.7.1 EW18309

In some cases, stopping at a step point in highly optimized code could make the Embedded Workbench IDE exit with no warning. This has been corrected.

Ver: 4.7.1 EW18212

The Watch window, and related windows, no longer scroll to the top of the list when stepping or expanding large structures or arrays.

Ver: 4.7.1 EW17411

C-SPY no longer crashes when trying to load a file in the unsupported ELF/DWARF format. The file is rejected and a debug session is not started.

Ver: 4.7.1 EW17239

Expanding an STL data structure in the Watch window of the debugger, when the data structure fits entirely in a processor register, no longer causes a crash.

Ver: 4.7.1 EW16661

A problem with keeping user-defined key bindings has been corrected.

Ver: 4.7.1 EW16421

A source browser filter for non-member functions and variables has been added.

Ver: 4.7.1 EW16393

The driver SDK has been modified to allow for some more flexibility in managing threads, as follows:

- * The documentation now describes from which threads each driver function can be called.
- * The built-in critical section locks in DpDriver are now optional.
- * The background execution thread now gets specific sign on/off calls using DbDriverCmd.

Ver: 4.7.1 EW16392

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Ver: 4.7.0 EW18077

The Auto Indent function now better handles lines already indented using tabs (could also cause a crash in unusual circumstances.)

Ver: 4.7.0 EW18068

In some cases the display of STL objects in a readable format did not work. This has been corrected.

Ver: 4.7.0 EW17983

If the debugger is in source level stepping mode a green arrow is only shown for the current PC in the editor window. If the debugger is in assembly level stepping mode the green arrow is only shown in the disassembly window.

The green arrow that points at the current source location is now only visible in one of the text editor and the disassembly window. It is in the text editor if the debugger is in statement stepping mode and in the disassembly window if it is in steppoint stepping mode.

Ver: 4.7.0 EW17951

Specifying output directories with a path that contained an illegal drive letter could cause the IAR Embedded Workbench IDE to exit abnormally. This has been corrected.

Ver: 4.7.0 EW17780

If a function was placed using the @ operator, the function was not present in the "Go to Function" list. This has been corrected.

Ver: 4.7.0 EW17651

A problem with misplaced bracket match indicators and bookmarks on lines containing tabs (ASCII character 0x09) has been corrected.

Ver: 4.7.0 EW16793

A horizontal scrollbar has been added to the MISRA C options list.

Ver: 4.7.0 EW16753

When an example workspace was opened from the Startup screen, a different workspace that the selected could appear. This has been corrected.

Ver: 4.7.0 EW16235

By default, the debugger used disassembly level stepping. It now uses source level stepping by default if there is source code where the execution stops for the first time.

Ver: 4.7.0 EW16112

A problem with parsing errors producing strange error messages like:

Thu May 11 11:03:17 2006: [syntax error, unexpected HEXCONSTANT, expecting IDENTIFIER]
<internal> line 1, column 23

or

Thu May 11 11:03:17 2006: [syntax error, unexpected TYPE_NAME, expecting IDENTIFIER] <internal>
line 1, column 55

while loading the 'custom_formats.dat' file, has been corrected. ('custom_formats.dat' file contains a set of C-SPY macros used to display STL objects in a readable format).

Ver: 4.7.0 EW11887

A new "Statics" window has been added for inspecting variables with static storage duration.

Ver: 4.6.7 EW18129

Saving files over a network could sometimes take more than 10 seconds per file. This has been corrected.

Ver: 4.6.4 EW17891

The Stack plugin no longer locks the debugger up when attempting to display stack variables of struct type with trailing padding or variables of certain union types.

Ver: 4.6.4 EW17843

The settings for the Stack plugin are now saved with each project, so it is possible to maintain different settings for different projects.

Ver: 4.6.4 EW17826

It is possible now to reset the target system without stopping the execution first. This applies only to drivers that support this feature.

Ver: 4.6.4 EW17824

When saving project files (and some other files) file paths are made relative to either \$PROJ_DIR\$ (the directory where the project file resides) or \$EW_DIR\$ (the Embedded Workbench installation directory). \$EW_DIR\$ will now only be used if the path refers to a file "under" \$EW_DIR\$ AND the "distance" from \$EW_DIR\$ is shorter than the distance from \$PROJ_DIR\$.

Ver: 4.6.2 EW17747

In previous versions of IAR Embedded Workbench, installing a new IAR Embedded Workbench 4.6.0 product in the same directory where a different IAR Embedded Workbench 4.0-4.5 product was already installed could in some cases cause compatibility problems when using the old product.

Ver: 4.6.2 EW17668

Stepping over statements that generate no code bytes could lead to the unexpected termination of IAR Embedded Workbench. This has been corrected.

Ver: 4.6.2 EW17642

When source browse information generation was enabled, the source browser could sometimes enter an infinite loop. This has been corrected.

Ver: 4.6.2 EW17574

The Disassembly window now properly filters away certain irrelevant internal labels.

Ver: 4.6.2 EW17563

Having a single identifier at the end of a source file could cause IAR Embedded Workbench to crash. This has been corrected.

Ver: 4.6.0 EW17517

It is now possible to edit the search path in the Find in Files dialog box.

Ver: 4.6.0 EW17416

Block operations, such as "trim trailing blanks" and "indent block" are performed much faster on large files now.

Ver: 4.6.0 EW17370

Default selected button is "Find next" instead of "Close" so that you with "Enter" can find the next hit.

Ver: 4.6.0 EW17369

Pressing ESC in the Incremental Search dialog used to move the cursor back to where it was before the search started. It now leaves the cursor where it is.

Ver: 4.6.0 EW17367

A command for commenting and uncommenting blocks of code has been added.

Ver: 4.6.0 EW17366

Workspace and project files are now (optionally) saved before a project is built.

Ver: 4.6.0 EW17365

The file dialog now remembers the last file type selection.

Ver: 4.6.0 EW17251

There is now a menu insertion point where plugins can register their about box menu commands.

Ver: 4.6.0 EW17219

Previously, some hardware debugger drivers could only be used from within the IAR Embedded Workbench IDE, and not from the command line. These drivers can now be used also from the command line.

Ver: 4.6.0 EW17112

When autoindenting, the editor now uses tabs and/or spaces as determined by editor settings.

Ver: 4.6.0 EW16989

The iarbuild command line tool now has an option to filter build messages by severity.

Ver: 4.6.0 EW16858

It is now possible to add custom file types in the Find in Files dialog

Ver: 4.6.0 EW16336

The text editor now indicates an appropriate line width for printing, either based on a user-settable fixed number of characters or on the current printer page width.

Ver: 4.6.0 EW15740

The Live Watch window could be opened even if the C-SPY driver did not support it. This has been corrected but still could appear when using older drivers.

Ver: 4.6.0 EW14458

It is now possible to toggle breakpoints by double-clicking the left margin in the text editor.

Ver: 4.6.0 EW13708

When copying text from the ASCII part of a memory window NULL characters ('\0') were removed. They now become dots in the clipboard.

Ver: 4.5.1 EW17361

After initially displaying "Collecting information..." the Source Browser window could show no more information. This has been corrected.

Ver: 4.5.1 EW17323

The IDE no longer crashes if you try to split an editor window directly after the debugger has been started or stopped.

Ver: 4.5.1 EW17086

When source browse information generation was enabled, saving a text editor file could sometimes fail. This has been corrected.

Ver: 4.5.0 EW16951

A program error which caused incorrect Find in Files search results for files with lines exceeding 255 characters has been corrected.

Ver: 4.5.0 EW16893

Source browser data was not collected when using the '\$FILE_DIR\$' argument variable to specify additional include paths for the compiler.

Ver: 4.5.0 EW16834

If you had a read-only file open in the editor and chose the Save As command from the Edit menu you were asked if you wanted to remove the read-only attributes of the file, and if you said yes the original read-only file will be overwritten without showing you a Save As dialog.

Ver: 4.5.0 EW16825

Stepping through your application program containing multiple C/C++ statements within a single preprocessor macro could earlier cause the debugger to terminate abnormally. This has been corrected.

Ver: 4.5.0 EW16763

When saving a workspace file failed, for example if it was write protected, an error message was not displayed.

Ver: 4.5.0 EW16750

IAR Embedded Workbench could earlier not handle paths with more than one space.

Ver: 4.5.0 EW16742

Source browse information for functions declared using the #pragma location directive or the @ operator was incorrectly displayed in the Source Browser window.

Ver: 4.5.0 EW16738

In the workspace window there is a new popup menu command for adding the topmost editor document to the current project.

Ver: 4.5.0 EW16732

Loading of large projects, or specifically projects with large dependency files (.dep), has been speeded up considerably.

Ver: 4.5.0 EW16728

Source browse information for an #if preprocessor directive containing a macro with parameters was incorrectly displayed in the Source Browser window.

Ver: 4.5.0 EW16720

The Auto window incorrectly displayed certain nested expressions as "TBD".

Ver: 4.5.0 EW16700

In some cases, the debugger could earlier fail to clear temporary breakpoints set to control the execution of the flash loader. This has been corrected

Ver: 4.5.0 EW16650

The build log and the text editor have now different images for errors and warnings.

Ver: 4.5.0 EW16605

If you selected a cursive font like "Monotype Corsiva", all fonts selected thereafter also became cursive.

Ver: 4.5.0 EW16578

There is now a context menu command for opening a file included with an include statement in c/cpp code. It is also possible to jump between source and include files with the same name.

Ver: 4.5.0 EW16540

When a bracket is entered or the caret is placed after a bracket in the text editor the matching bracket is highlighted.

Ver: 4.5.0 EW16265

When closing a workspace file containing a read-only project file, an error message was displayed but without the possibility to save the project file.

Ver: 4.5.0 EW14776

In the debugger, a memory attribute is sometimes needed when casting to a pointer type. The error message issued when the attribute is missing is now clearer.

Ver: 4.5.0 EW14285

To simplify examining variables defined in assembler files, assembler labels are now by default treated as variables of type int, located at the label location, instead of as integer constants with the label address as the value. The display can be further customized using context menus in e.g. the Watch debugger window.

Ver: 4.4.2 EW16645

A problem with source code control operations on Embedded Workbench projects connected to Microsoft Visual SourceSafe has been corrected. Now all operations can be performed on the projects.

Ver: 4.4.2 EW16579

A problem when terminating execution of CSpyBat.exe using ctrl-c has been corrected.

Ver: 4.4.1 EW16449

A problem that sometimes caused the IDE to crash when old projects were opened has been corrected.

Ver: 4.4.1 EW16426

If a project was placed in the Embedded Workbench installation directory, Find in Files regarded the project's files as system include files. This meant that when the option "Project files and user include files" (i.e. no system include files) was selected, no files were searched through.

Ver: 4.4.1 EW16348

The format variant "NEC compatible" for XCOFF78K now sets the '-yspn' flags by default

Ver: 4.4.0 EW16182

An expression in form of a variable enclosed in redundant parentheses can be properly evaluated now

Ver: 4.4.0 EW16137

The --misrac_verbose option (when turned on) is no longer emitted for each object file on the XLINK command line.

Ver: 4.4.0 EW16124

In some situations the IAR Embedded Workbench could terminate abnormally when the Compiler Options dialog box was displayed.

Ver: 4.4.0 EW16111

Run to Cursor no longer fails to stop the execution at the correct location. This could happen for certain statements with nested function calls.

Ver: 4.4.0 EW16098

In some situations the selected editor tab went out of synch with the displayed document. (This could happen if many editor tabs were visible and you selected the leftmost one.) When this happened it could also make the IAR Embedded Workbench to terminate abnormally.

Ver: 4.4.0 EW16090

Better default directories are picked for file browsing dialog boxes.

Ver: 4.4.0 EW16072

The filename and line number are now shown for build errors.

Ver: 4.4.0 EW16071

The IAR Embedded Workbench no longer terminates abnormally when starting to edit a text file after selecting the leftmost editor tab from large number of tabs.

Ver: 4.4.0 EW16015

C-SPY no longer highlights the wrong call when traversing the call stack.

Ver: 4.4.0 EW15987

The 'Go to Function' button (in the bottom left corner of editor windows) did not work if syntax highlighting was turned off.

Ver: 4.4.0 EW15916

The text editor context menu no longer displays an inordinate amount of text in the 'Go to definition' menu command when the selection is large.

Ver: 4.4.0 EW15635

The option to choose project files has been put back in the Find in Files dialog box. The dialog box has also been redesigned.

Ver: 4.4.0 EW15457

The asterisk indicating that a workspace or a project contains unsaved changes is now updated directly upon a Save All command.

Ver: 4.4.0 EW15228

Rebuild all could periodically fail on computers with hyper threading enabled

Ver: 4.4.0 EW15208

There is no longer a problem with selecting a group of files to search thanks to new design of the Find in Files window

Ver: 4.4.0 EW15121

C-SPY can now display pointer-to-member variables.

Ver: 4.4.0 EW14796

The Toggle Breakpoint toolbar button was moved to the off-line toolbar to make it available when not debugging.

Ver: 4.3.1 EW15857

The Break button on the Debugger toolbar could indicate that the debugger was still running even after the execution had completed. This has been corrected.

Ver: 4.3.1 EW15843

Executing the same macro before and after downloading of a debuggee could lead to abnormal session termination. This has been corrected.

Ver: 4.3.1 EW15765

Editing memory in the Memory window is now executed group-wise. When you start typing an edit box appears with the contents of the part of the memory you are about to modify. The data is not written until the box is closed.

Ver: 4.3.1 EW15739

When inspecting source code in mixed mode on the Output page of the Trace window, focus is no longer moved to the corresponding source file.

Ver: 4.3.1 EW15738

The Trace window did not keep its visual state properly when the window was moved or the debug session was restarted.

Ver: 4.3.1 EW15735

The following Xlink output formats have been removed from list of available formats as obsolete:

NEC2

NEC2-symbolic

NEC78K

NEC78K-symbolic

Ver: 4.3.1 EW15722

Non-default formats for items in the Watch window were not saved correctly when exiting the IAR Embedded Workbench. This has been corrected.

Ver: 4.3.1 EW15720

Corrected a problem with limitations in the toolbar search field.

Ver: 4.3.1 EW15638

Errors in custom build settings could cause annoying repeating error messages in the Build log window. Also, certain custom build errors could cause some problems with subsequent builds even after being corrected. This has been corrected.

Ver: 4.3.1 EW15614

When generating an assembler output file from the C compiler, the file should not automatically be further processed by the tool chain, even though such a file is normally subject to processing by the

assembler. In previous versions of the workbench, this was accomplished by simply hiding the assembler output file. Now, the file can be seen and conveniently accessed in the project window (without being processed.)

Ver: 4.3.1 EW15531

When using the Memory window, the settings were not stored/restored when exiting the debugger or the IAR Embedded Workbench. This has now been corrected.

Ver: 4.3.1 EW15515

When changing output file format for a project, the old output file could remain shown in the Workspace window indefinitely. This has been corrected.

Ver: 4.3.1 EW15492

Adding multiple source files with the same name would cause valid but annoying repeating error messages in the Build log window. This has been corrected and now the error message doesn't appear until an actual build operation is performed (and it only appears once).

Ver: 4.3.1 EW14817

When splitting a source window the new window used to show the top of the file. It now shows the same part of the file as the original window.

Ver: 4.3.1 EW14774

File and line number has been put back into the build log window.

Ver: 4.3.1 EW14731

The Editor now removes trailing blanks when text files are saved. This feature can be switched off on the Editor settings page.

Ver: 4.3.1 EW13986

The project manager can now handle the Compile command for multiple files or for a group.

Ver: 4.3.0 EW15406

The Break button on the Debugger toolbar could indicate that the debugger was still running even after the execution had completed. This has been corrected.

Ver: 4.3.0 EW15391

A project file could appear more than once in the Workspace window if its pathname was capitalized differently.

Ver: 4.3.0 EW15224

After changing the exclude-from-build property for a file, the project manager did not relink the project. This has been corrected.

Ver: 4.3.0 EW15222

A problem where (in the sizeof operator of the C-SPY macro language) the size of an array variable was incorrectly reported as the size of a pointer to its element type has been corrected.

Ver: 4.3.0 EW15221

In C-SPY expressions, some registers with "complex" names couldn't be accessed using the #name or #`name` syntax. This has been corrected.

Ver: 4.3.0 EW15203

When removing a file from a project, the project manager did not relink the project. This has been corrected.

Ver: 4.3.0 EW15159

Tab characters were treated as unprintable in the Message window. Now they are output as space characters.

Ver: 4.3.0 EW15141

A problem where C-SPY could not load a macro file containing a macro with an empty function body has been corrected.

Ver: 4.3.0 EW15137

A plain assignment in C-SPY expressions, such as `x=42`, no longer causes reading of the left-hand side.

Ver: 4.3.0 EW15108

Some plug-ins could not open their windows or opened the Help window instead. This has been corrected.

Ver: 4.3.0 EW15101

Pressing F1 in the C-SPY Live Watch window displayed help for the Watch window. This has been corrected.

Ver: 4.3.0 EW15058

Execution of Reset command is now indicated in Trace output window

Ver: 4.3.0 EW14851

If there was no valid backtrace information, source-level step operation could run to exit when leaving a function. This has been corrected.

Ver: 4.3.0 EW14221

The default filter in "Add Files" dialog does not include header files now.

Ver: 4.2.1 EW15354

Because of initialization file corruption, sometimes the Disassembly window could appear even when no debugger session was active. This problem, which could result in an internal error for hardware debugger systems, has been corrected.

Ver: 4.2.1 EW15291

In some cases, not all zones were listed in the Breakpoints dialog box for breakpoints at an absolute address. This has been corrected.

Ver: 4.2.0 EW15450

A problem with the fact that IAR Embedded Workbench becomes unresponsive after switching projects several times has been corrected. The problem was caused by incorrect saving of floating window(s) desktop information, which led to uncontrolled growth of the debugger desktop (.dbgdtd) file.

Ver: 4.2.0 EW15037

Sometimes, data coverage coloring failed for hardware debugger systems. This has been corrected.

Ver: 4.2.0 EW15028

When a legacy project file (with the extension .prj or .pew) was opened, the IDE sometimes crashed directly after the project file was converted to the current format. This problem has been corrected.

Ver: 4.1.1 EW14377

It is now possible to activate a single interrupt through mouse click when running a simulator driver.

Ver: 4.0.0 EW14256

Improved visualization of the C-source lines in the Disassembler window by adding a color to the debugger option.

Ver: 4.0.0 EW14108

Snapping to a step point works now across the line border. That means that toggling a breakpoint at a source line that does not contain any step points results in a breakpoint set/clear at the nearest step point below. If there is no such step point no breakpoint will be set/cleared.

Ver: EW19468

The text editor now reloads externally modified files correctly.

Ver: EW19458

Division by 0 within preprocessor directives could cause IAR Embedded Workbench to terminate abnormally. This has been corrected.

Ver: EW19318

Japanese version of code templates file was saved using improper encoding. This has been corrected.