



Basic IDE

Now you can enjoy programming
BASIC scripts with eWON Flexy

Current Script setup

Edit Scripts

Script Control

RUN (currently stopped)

07/08/2015 17:26:21

Script Sections

Init Section
Cyclic Section

EditDelete

New Section

Select a script section for edition
or
Create a new "User Section"

Program must be stopped for update

Script Edition

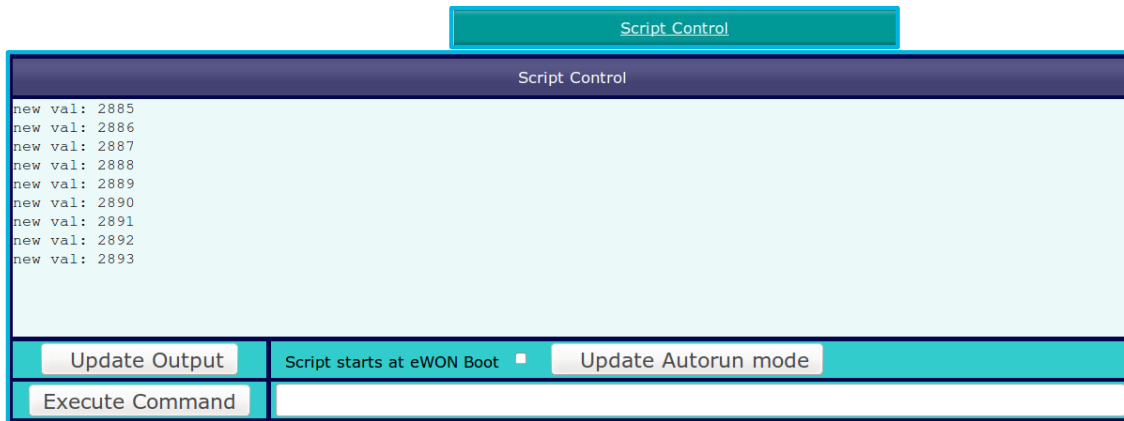
Ergonomic & Usability issues



- No syntax highlighting features
- No global line numbers for easy code navigation (debug purpose)
- Missing search and replace functionalities
- Navigation between BASIC sections is slow

Script Control

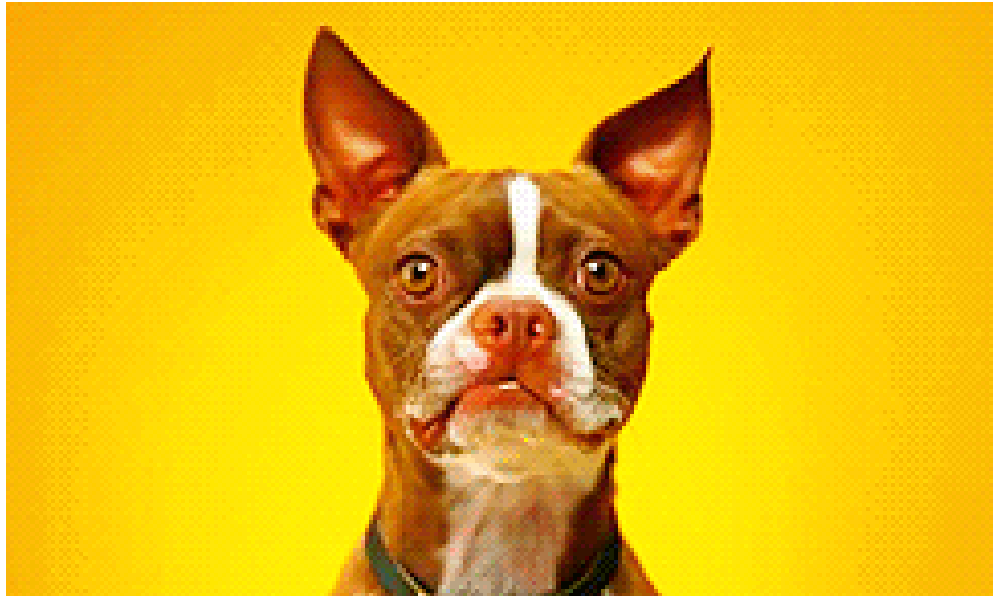
Ergonomic & Usability issues



- No color difference between standard output and errors
- Output Limited to 10 lines
- Script Control Output must be refreshed manually
- Difficult to debug (no BREAK/PAUSE)

Current Script setup

You really like it right ?





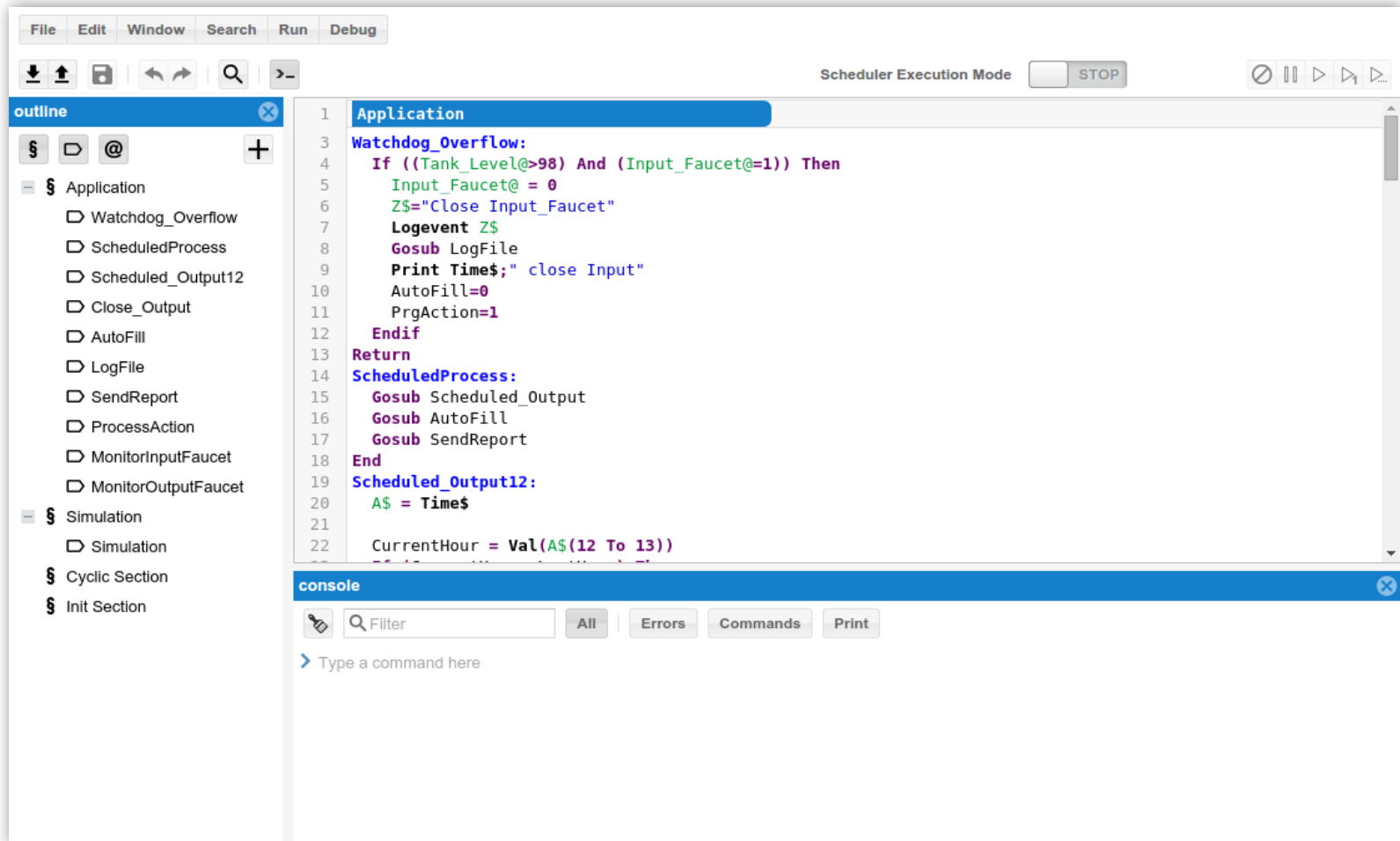
Looking for a better alternative?

Here is ours!

Introducing the BASIC IDE

The new BASIC IDE

An user-friendlier tool



The new BASIC IDE

Main Features & Improvements (1)



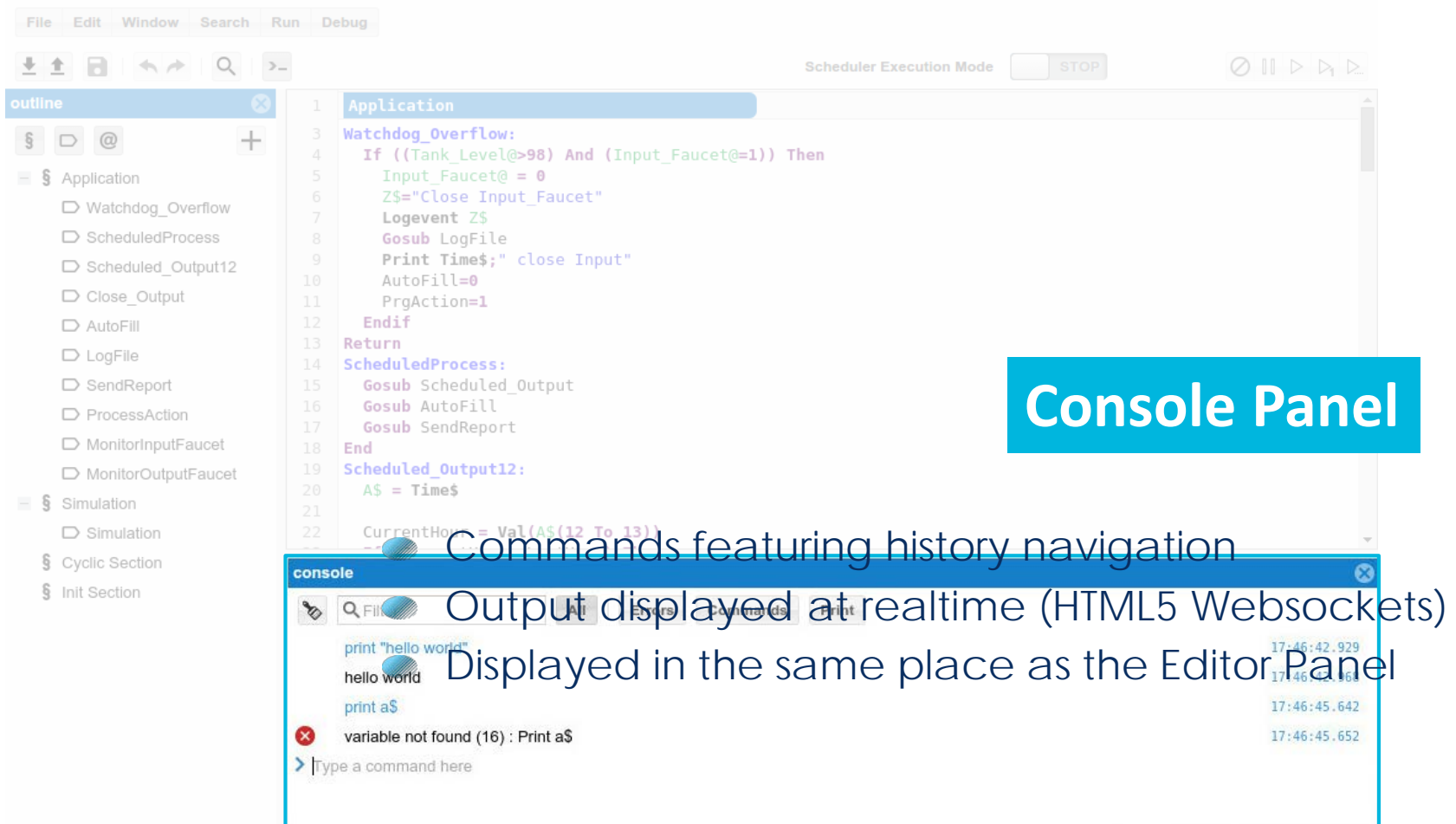
```
1 Application
3 Watchdog_Overflow:
4   If ((Tank_Level@>98) And (Input_Faucet@=1)) Then
5     Input_Faucet@ = 0
6     Z$="Close Input_Faucet"
7     Logevent Z$
8     Gosub LogFile
9     Print Time$;" close Input"
10    AutoFill=0
11    PrgAction=1
12  Endif
13 Return
14 ScheduledProcess:
15   Gosub Scheduled_Output
16   Gosub AutoFill
17   Gosub SendReport
18 End
19 Scheduled_Output12:
20   A$ = Time$
21
22   CurrentHour = Val(A$(12 To 13))
```

Editor Panel

- Syntax highlighting
- Global Program/Code view
- Visual replacement for BASIC Sections

The new BASIC IDE

Main Features & Improvements (2)



File Edit Window Search Run Debug

Scheduler Execution Mode STOP

outline

- \$ Application
 - Watchdog_Overflow
 - ScheduledProcess
 - Scheduled_Output12
 - Close_Output
 - AutoFill
 - LogFile
 - SendReport
 - ProcessAction
 - MonitorInputFaucet
 - MonitorOutputFaucet
- \$ Simulation
 - Simulation
- \$ Cyclic Section
- \$ Init Section

```

1 Application
3 Watchdog_Overflow:
4   If ((Tank_Level@>98) And (Input_Faucet@=1)) Then
5     Input_Faucet@ = 0
6     Z$="Close Input_Faucet"
7     Logevent Z$
8     Gosub LogFile
9     Print Time$;" close Input"
10    AutoFill=0
11    PrgAction=1
12  Endif
13 Return
14 ScheduledProcess:
15   Gosub Scheduled_Output
16   Gosub AutoFill
17   Gosub SendReport
18 End
19 Scheduled_Output12:
20   A$ = Time$
21
22   CurrentHour = Val(A$(12 To 13))

```

Console Panel

Commands featuring history navigation

Output displayed at realtime (HTML5 Websockets)

Displayed in the same place as the Editor Panel

console

print "hello world"

hello world

print a\$

variable not found (16) : Print a\$

Type a command here

17:46:42.929

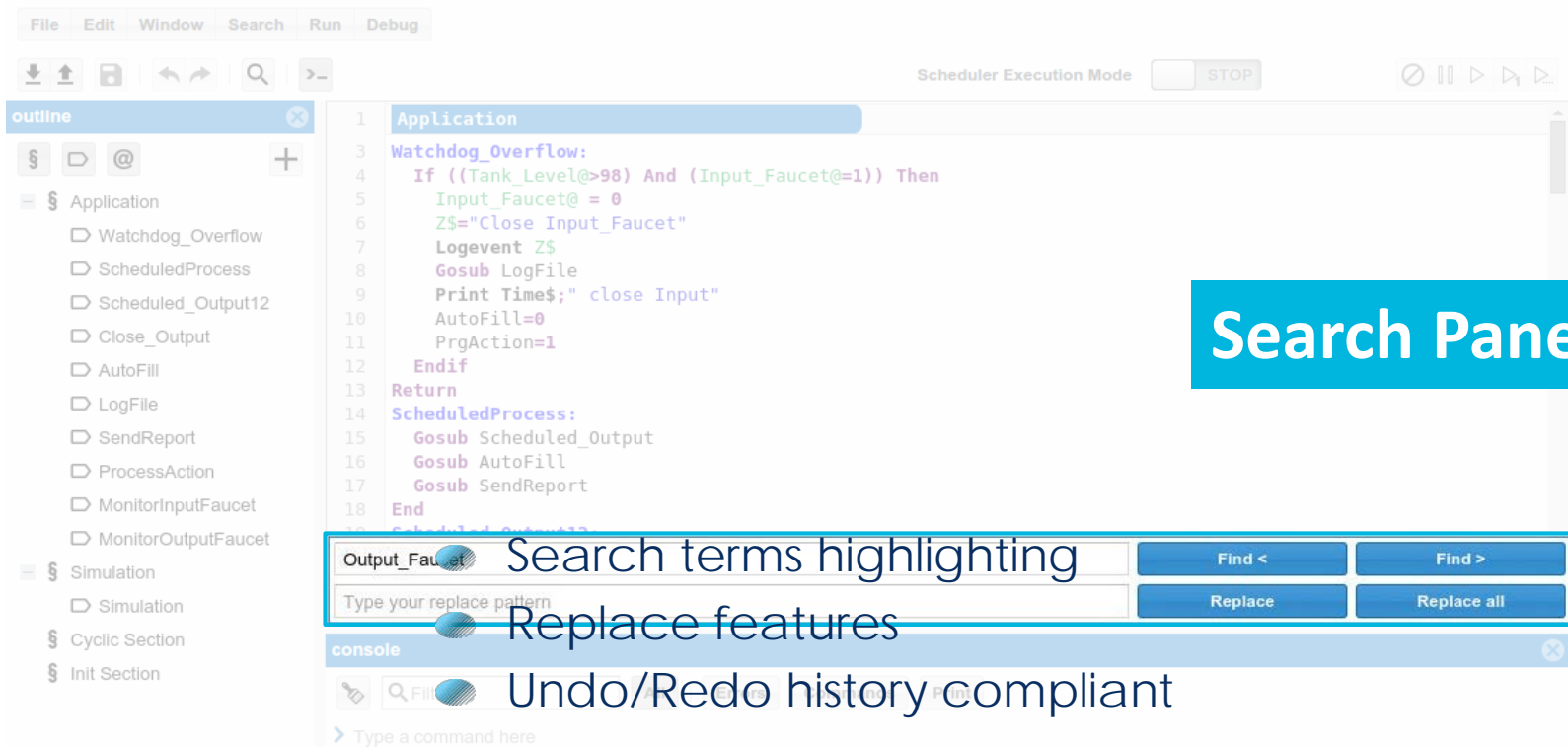
17:46:43.168

17:46:45.642

17:46:45.652

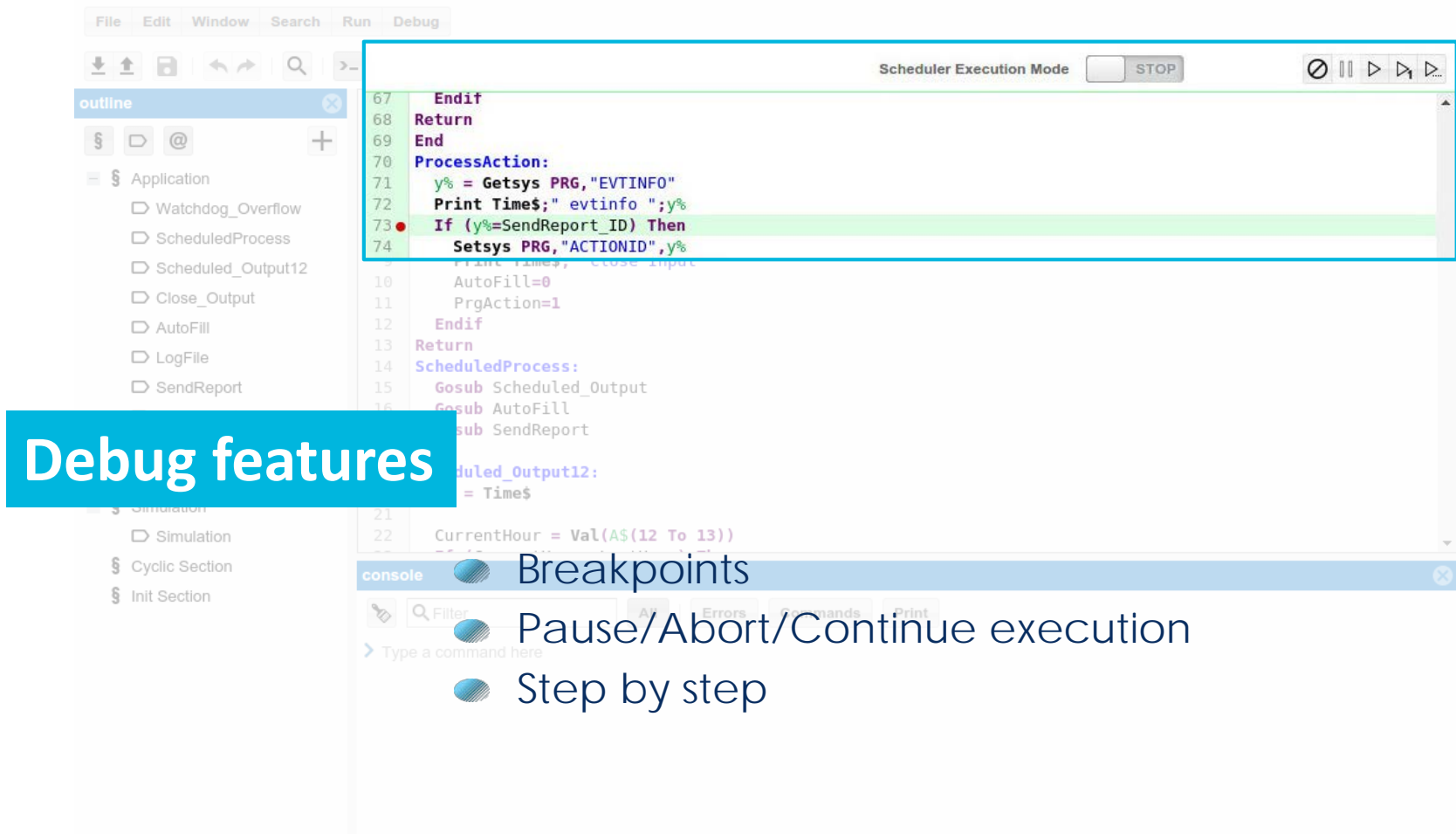
The new BASIC IDE

Main Features & Improvements (3)



The new BASIC IDE

Main Features & Improvements (4)



The screenshot displays the eWON BASIC IDE interface. The main window shows a BASIC program in 'Scheduler Execution Mode'. The code includes sections for 'Endif', 'Return', 'End', 'ProcessAction', and 'ScheduledProcess'. A red dot on line 73 indicates a breakpoint is set at the 'If' statement. The left sidebar contains an 'outline' panel with a tree view of the project structure, including 'Application', 'Watchdog_Overflow', 'ScheduledProcess', 'Scheduled_Output12', 'Close_Output', 'AutoFill', 'LogFile', and 'SendReport'. The bottom panel is the 'console', which is currently empty and has a search filter. Overlaid on the console are three blue circular icons representing different debug features.

Debug features

- Breakpoints
- Pause/Abort/Continue execution
- Step by step

Still hungry ?



Let's make
a demo

... We have something more to show!

The new BASIC IDE

Demo key points

- User preferences stored at client-side
- Real-time communication (Websockets)
- Efficient and intelligent save algorithm
- Console output
 - displayed at realtime (message passing)
 - driven by a global scheduler (200ms)
- Debug Tools

Still not seeing the Advantages?

Let's
summarize!

- Global view & navigation improvement
- Code readability & edition improvement
- Real-time communication
- Debugging features

Thank You

Follow us www.ewon.biz