dp:x = 100; // set a datapool item

dp:x = dp:y + dp:z; // reading y and z

dp:refX => dp:x; // redirect link

fire ev:mouseClick(10, 20);

f:trace\_string("hello world"); // call a function

length dp:aList; // read the length of a list datapool item

fire\_delayed 3000, ev:back(); // send the event "back"

cancel fire ev:back; // cancel the event

f:trace\_string("back event received");

match event v:event = ev:mouseClick in {

v:this.y = v:event.y;

v:this.text = "hello world";

"name" == "NAME" // false

"name" != "NAME" // true

"name" =Aa= "NAME" // true

v:this.x = 10;

"km/h";

v:this.x = match event v:event = ev:back in 10 else 0;

v:this->^->caption.text = "Play"; // goto parent, goto

v:this.text = "current speed: " + f:int2string(dp:speed) +

f:setLanguage(I:Standard, false) // changes language to the

f:setLanguage(I:German, true) // changes language to

v:this->^.x-= 1; // goto parent, property x

caption, property text

standard language at the

German at the core scope

model scope

match event v:event = ev:back in {

in 3 seconds.

fire ev:back(); // fire an event

dp:x = 5; // writing to x

fire ev:back();

## **Elektrobit**

Namespaces

Accessing

datapool items

Sending events

Reacting on

Accessing event

Accessing widget

parameters

properties

Navigating the

String formatting

String comparison

widget tree

events

**FEATURE** 

## **DESCRIPTION**

You have to prefix model elements when referring to them.

Write a datapool item by placing it at the left side of an assignment. Read a datapool

The following prefixes exist:

dp: for datapool items, ev: for events, v: for local variables, f: for functions

item by using it anywhere else in an expression. The redirect-link (=>) is a special form of datapool item assignment.

Syntax:

fire ev:<identifier>(<parameter-list>);

Events can be sent after a timeout.

This delayed event can be canceled with the **cancel fire** expression.

fire\_delayed <timeout>, ev:<identifier>(<parameter-list>);

cancel fire ev:<identifier>;

To react on events, use match event. This is a special form of the if-then-else

statement. If and else branch must always have the same type. If used at the right side of an assignment, the else branch is mandatory.

Syntax:

match event v:<identifier> = ev:<identifier>

in <sequence> else <sequence>

The **in** expression of a **match event** has access to the event parameters.

Use the dot notation to access event parameters.

If a script is part of a widget (widget actions, input reactions), it has access to the pro-

perties of that widget. A special local variable called v:this is available referring to the

current widget. Use the dot notation to address widget properties.

If a script is part of a widget, it has access to the properties of other widgets. Use the widget tree navigation operator: ->. To access the parent widget, use the identifier: ^.

The + operator concatenates strings. For more string conversion functions, please refer

to the documentation

To compare two strings without case sensitivity, use the equality operator =Aa=.

This operation is performed asynchronously.

To compare two strings with case sensitivity, use the equality operators

To change the language of all datapool items of an EB GUIDE model, use setLanguage.

**f:setLanguage(I**:<identifier>, bool<isCoreScope>)

Changing

language

**FEATURE** 

Constants

Arithmetic, logic

and assignment

operators

Sequencing

Local variables

While loop

If-then-else

Comments

Return value

V 6.9 or later

f:setSkin(s:"myskin", false) // changes to a user-defined skin

at the core scope

at the model scope

**DESCRIPTION** Changing skin

To change the skin of all datapool items of an EB GUIDE model, use setSkin. This operation is performed asynchronously.

Addition and string concatenation: +, subtraction: -, multiplication: \*, division: /,

modulo: %, greater-than: >, less-than: <, greater-or-equal: >=, less-or-equal: <=,

equal: ==, not-equal: !=, and: &&, or: | |, not: !, assignment: =, assign-increment: +=,

A sequence is either a single expression or a series of expressions enclosed in curly

Use let-bindings to introduce local variables. It is not allowed to use uninitialized

If-then-else behaves like the ternary conditional operator in C and Java. If it is used

braces. The last expression in a sequence is the value of the sequence.

f:setSkin(s:Standard, true) // changes to the standard skin

Syntax:

assign-decrement: -=

f:setSkin(s:<identifier>, bool<isCoreScope>)

String constants may be written without quotes.

Color constants are in the RGBA format.

"hello world" // string constant Napoleon // string constant

if( dp:something )

if( dp:other ) {

let v:x = 42;

dp:count += 1; // increment one

dp:x = 5; // single expression

dp:x = 5; // sequence enclosed dp:y = 10; // in curly braces

5 // integer constant color:0,235,0,255 // EB green dp:myString = "Hello" + "World";

> v:this.x = v:x;v:this.text = v:text;

v:text = "hello world";

dp:i = 0;while( dp:i <= 10 ) { dp:sum += i;

if( dp:buttonClicked ) {

else {

v:this.x = dp:x;

v:this.x = if( dp:buttonClicked ) dp:x else 0; /\* this is a C style block comment \*/ // this is a C++ style line comment

dp:x + 2; // returns datapool item x plus 2

let v:<identifier> = <expression>; v:<identifier2> = <expression>; in <sequence>

let-bindings may be nested.

The **while** loop consists of two expressions: the condition and the body. The body is repeatedly evaluated until the condition yields false.

variables.

Syntax:

while( <expression> ) <sequence>

at the right side of an assignment, the else branch is mandatory and both branches must have the same type.

Syntax:

if( <expression> ) <sequence> else <sequence>

C style block comments and C++ style line comments are allowed. The last expression in a script is the return value.

To force a return value of type void, use unit or {}