



Rocket Uniface Library 10.4

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operation

Declare an operation ProcScript module.

```
{public | partner} operation OperationName | PredefinedOperationName
  {public soap}
  {public web | partner web }
  {ScopeBlock}; DSPs only
  {ParamsBlock}
  {VariablesBlock}

  Your ProcScript
{end}
```

Qualifiers

Table: Qualifiers

Qualifier	Description
public	Includes the operation in the component signature so that it can be invoked from an external component by an activate statement; default.
partner	Excludes the operation from the signature; it can only be invoked from within the component itself.
public soap	Operation can be called from a SOAP client when used in Service components, DSPs, and USPs. For more information, see soap .
public web	Operation can be called from a web browser, RESTful service, or other web client when used in DSPs, USPs, and Service components. For more information, see web .
partner web	DSPs only. Operation cannot be called from a web client, but data in the scope block can be included in the request-response exchange with other operations or triggers.

Parameters

Table: Parameters

Parameter	Data Type	Description
<i>OperationName</i>	Literal	Literal name of the operation; maximum length of 32 bytes. The characters can be letters (A-Z), digits (0-9), and underscores (_), and must begin with a letter (A-Z).
<i>PredefinedOperationName</i>	Literal	One of the following predefined operations, which define component behavior in specific circumstances: <ul style="list-style-type: none">exec—executed when the component is activated. It is the default component operation.init—executed when a component instance is created with newinstance or activate.cleanup—executed when a component is removed.

Parameter	Data Type	Description
		<ul style="list-style-type: none"> attach—executed when a contained DSP is attached to a parent DSP. detach—executed when an attached child DSP is detached from its parent.
<i>ScopeBlock</i>	Literal	DSP only. Specifies the data to be included in a DSP request-response exchange. For more information, see scope...endscope .
<i>ParamsBlock</i>	Literal	Defines the operation's parameters. For more information, see params...endparams .
<i>VariablesBlock</i>	Literal	Defines the local variables used by the operation. For more information, see variables...endvariables .

Return Values

The **operation** declaration itself does not return a value. However, you can use the **return** statement to have the operation return a value in **\$status**.

Use

Allowed in all component types.

Description

The **operation** block defines an operation that can be called by an **activate** statement.

It acts as an implicit **end** for the previous operation or ProcScript module.

By default, an operation is **public**, meaning that it can be activated by other components. If you want it to be accessible only within the component, you must declare it as **partner**.

If you define scope, parameters, or variables for the operation, they should be declared in that order—first the **scope** block (in DSPs only), followed by the **params** block, and then the **variables**.

Operation Names

When specifying the operation name:

- Do not enclose the name in double quotation marks ("").
- Do not use the names `accept` and `quit`. These are predefined operations that expose the *accept* and *quit* triggers in the component signature.
- Do not define operations named `abort` or `complete`, because these are reserved.

Operations on the Web

When **operation** is used in web applications:

- Use the **public web** declaration if you want the operation to be activated from a web browser or RESTful web service.
- Use the **public soap** declaration if you want the operation to be activated by a SOAP-based web service.
- In DSPs, use the **partner web** declaration if the operation is to be referenced by scope definitions of triggers or other operations that are themselves declared as **public** or **partner web**.
- In DSPs, use a **scope** definition to define the data that will be included in the request-response exchange between the client and the server. If omitted, the scope is assumed to be both **input** and **output**, meaning that all data in the DSP will be included in both the request and the response.

Activating operations from the browser initiates a request-response cycle, since operations can only be executed on the server. To execute an operation on the browser, it must be defined with the **weboperation** command.

If an **operation** is defined with the same name as the **weboperation**, the last one defined is the one that is used.

Example: Defining an Operation

The following example shows the operation DISCOUNT of a service component named SERV1:

```
operation DISCOUNT
params
  string CUSTID : IN
  numeric AMOUNT : INOUT
  numeric PERCENTAGE : OUT
endparams
; no discount till proven otherwise
; 20% discount for Uniface
; 15% discount for Acme
; adjust amount
PERCENTAGE = 0
if ( CUSTID == "ufbv" ) PERCENTAGE = 20
if ( CUSTID == "acme" ) PERCENTAGE = 15
AMOUNT = AMOUNT * ( 100 - PERCENTAGE ) / 100
end
```

The operation DISCOUNT could be referenced from another component as follows:

```
activate "SERV1".DISCOUNT (ID.CUST, TOTAL.INVOICE, $DISCOUNT$)
```

Example: Calling an Operation Recursively

The following example shows the operation FACTORIAL, defined in the Operations trigger of a service component named CALCULATOR:

```
operation FACTORIAL
params
  numeric N : IN
  numeric F : OUT
endparams
variables
  numeric W
endvariables
```

```
if ( N > 1 )
  W = N - 1
  activate "calculator".FACTORIAL (W, F)
  F = N * F
else
  if ( N = 1 )
    F = 1
  else
    F = 0
  endif
endif

end ; operation FACTORIAL
```

Related concepts

[Public and Partner Operations](#)

[return](#)

[weboperation...end](#)

[operation init](#)

[operation cleanup](#)

[operation attach](#)

[operation detach](#)

Related reference

[Script Container](#)