

ServiceNow Application Developer

Server-side Scripting > On Demand Script Include

A Script Include that defines a single function is known as an on demand, or classless, Script Include. The function is callable from other server-side scripts. On demand Script Includes can never be used client-side even if the Client callable option is selected.

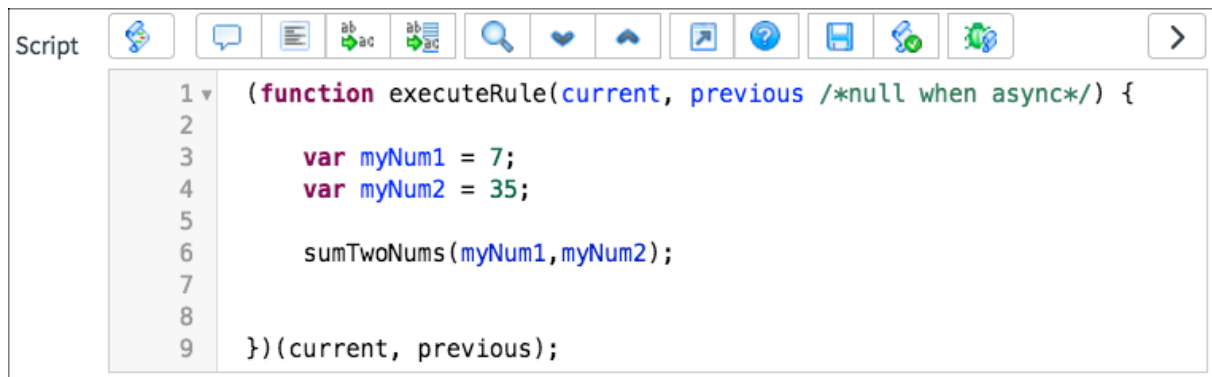
A script template is automatically inserted into the *Script* field. The template does not apply to on demand Script Includes. Delete the template and replace it with your function definition. The Script Include function is defined using standard JavaScript syntax. The example shows an on demand Script Include:

The screenshot shows the 'Script Include' configuration page in ServiceNow. The 'Name' field is 'sumTwoNums' and the 'API Name' is 'global.sum.TwoNums'. The 'Application' is 'NeedIt' and 'Accessible from' is 'This application scope only'. The 'Client callable' checkbox is unchecked, and the 'Active' checkbox is checked. The 'Description' is 'This on demand/classless Script Include is passed two integers. The integers are added together and the sum is logged.' The 'Script' field contains a JavaScript function definition for 'sumTwoNums'. A yellow box highlights the 'sumTwoNums' name in the 'Name' field, and another yellow box highlights the 'function sumTwoNums' line in the script, with a yellow arrow pointing from the first box to the second. The 'Protection policy' is set to '-- None --'.

Script Include New record	
Name	sumTwoNums
API Name	global.sum.TwoNums
Application	NeedIt
Accessible from	This application scope only
Client callable	<input type="checkbox"/>
Active	<input checked="" type="checkbox"/>
Description	This on demand/classless Script Include is passed two integers. The integers are added together and the sum is logged.
Script	<pre>1 function sumTwoNums(int1,int2){ 2 var mySum = int1 + int2; 3 gs.addInfoMessage("The sum of " + int1 + " + " + int2 + " = " + mySum); 4 }</pre>
Protection policy	-- None --

It is critical that the Script Include name is an *exact match* for the name of the function. In the example, both the Script Include and the function are named *sumTwoNums*.

The on demand Script Include is usable by any other server-side script allowed by the *Accessible from* option. In the example, the Script Include is callable only from *NeedIt* application server-side scripts. The example Business Rule script uses the *sumTwoNums* on demand Script Include:



```
Script
1  (function executeRule(current, previous /*null when async*/) {
2
3      var myNum1 = 7;
4      var myNum2 = 35;
5
6      sumTwoNums(myNum1, myNum2);
7
8
9  })(current, previous);
```

Although the *sumTwoNums* function is not defined in the Business Rule script, the function exists because it is defined in the Script Include for the *NeedIt* application.

On demand Script Includes are typically used when script logic needs to be reused. Examples include standardizing date formats, enabling/disabling logging, and validating email addresses.