# **ServiceNow Script Include**

Script Includes defines a function or class to be reusable server-side script logic that is executed only when explicitly called by other scripts.

Script Includes are called in Business Rule, Scheduled Job, Script Action, Reference Qualifier, UI Action, UI Pages, Workflow Script, Client Script (Glide Ajax) and in other script Include.

Script Includes are only loaded on request. This can be called by server-side scripts and client-side (Glide Ajax) scripts.

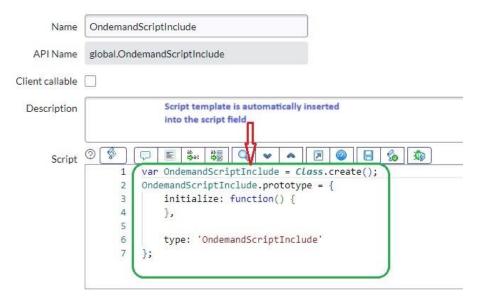
There are different types of Script Includes:

- 1. On demand/classless
- 2. Extend an existing class
- 3. Define a new class

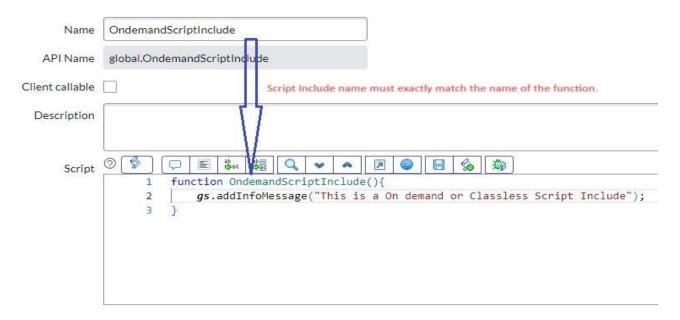
#### 1. On demand/classless:

On Demand or Classless Script Include stores only single function. 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.



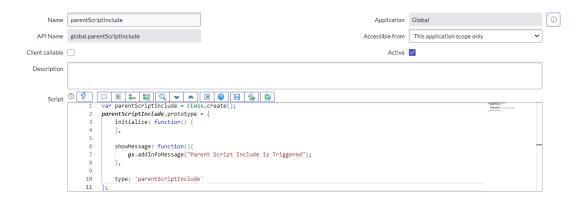
On demand Script Includes are typically used when script logic needs to be reused. Examples include standardizing date formats, enabling/disabling logging, and validating email addresses.

# 2. Extend an existing class:

This creates a new class to store new functions.

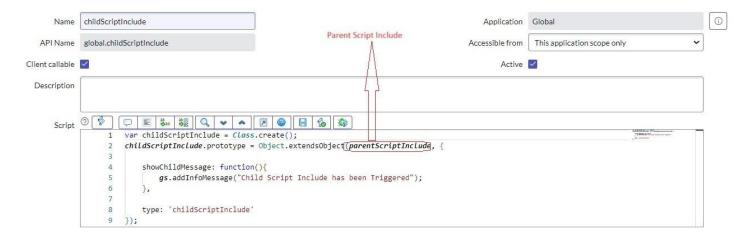
This means creating a new Script Include/Class, reference an existing Class using the extendsObject() method to include all its functionality, add script logic.

### **Parent Script Include:**



### **Child Script Include:**

After extending the class using Object.extendsObject method, we expect all parent methods to be available to the child.



# Calling the script include functions:

```
new global.childScriptInclude().showChildMessage(); //showChildMessage()
function is present in child script include.

new global.childScriptInclude().showMessage(); //showMessage() function is present in parent script include.
```

# **Output:**

```
[0:00:00.027] Script completed in scope global: script
```

Script execution history and recovery available here

```
Background message, type:info, message: Child Script Include has been Triggered
Background message, type:info, message: Parent Script Include is Triggered
```

Although most ServiceNow classes are extensible, the most commonly extended classes are:

- GlideAjax: make AJAX calls from Client Scripts
- LDAPUtils: add managers to users, set group membership, debug LDAP
- Catalog\*: set of classes used by the Service Catalog for form processing and UI building

**3. Define a new class:** This Script Include can be used for collection of functions. The standard practice is to include "Utils" in the name. Ex: 'UserUtils'.

Utilities Script Includes typically define a new class and therefore use the automatically inserted script template.



The initialize function is automatically invoked when JavaScript objects are instantiated from the Script Include. Any variable defined as part of this object in the initialize function is known to all other functions in the Script Include.

