

# itemprototype.create

## Description

object itemprototype.create(object/array **itemPrototypes**)

This method allows to create new item prototypes.

## Parameters

(object/array) Item prototype to create.

Additionally to the [standard item prototype properties](#), the method accepts the following parameters.

Parameter	Type	Description
<b>ruleid</b> (required)	string	ID of the LLD rule that the item belongs to.
applications	array	IDs of applications to be assigned to the discovered items.
applicationPrototypes	array	Names of application prototypes to be assigned to the item prototype.
preprocessing	array	Item prototype <a href="#">preprocessing</a> options.

## Return values

(object) Returns an object containing the IDs of the created item prototypes under the `itemids` property. The order of the returned IDs matches the order of the passed item prototypes.

## Examples

### Creating an item prototype

Create an item prototype to monitor free disc space on a discovered file system. Discovered items should be numeric Zabbix agent items updated every 30 seconds.

Request:

```
{
  "jsonrpc": "2.0",
  "method": "itemprototype.create",
  "params": {
    "name": "Free disk space on $1",
    "key_": "vfs.fs.size[#{FSNAME},free]",
    "hostid": "10197",
    "ruleid": "27665",
    "type": 0,
    "value_type": 3,
  }
}
```

```
    "interfaceid": "112",
    "delay": "30s"
  },
  "auth": "038e1d7b1735c6a5436ee9eae095879e",
  "id": 1
}
```

Response:

```
{
  "jsonrpc": "2.0",
  "result": {
    "itemids": [
      "27666"
    ]
  },
  "id": 1
}
```

## Creating an item prototype with preprocessing

Create an item using change per second and a custom multiplier as a second step.

Request:

```
{
  "jsonrpc": "2.0",
  "method": "itemprototype.create",
  "params": {
    "name": "Incoming network traffic on $1",
    "key_": "net.if.in[#{#IFNAME}]",
    "hostid": "10001",
    "ruleid": "27665",
    "type": 0,
    "value_type": 3,
    "delay": "60s",
    "units": "bps",
    "interfaceid": "1155",
    "preprocessing": [
      {
        "type": "10",
        "params": "",
        "error_handler": "0",
        "error_handler_params": ""
      },
      {
        "type": "1",

```

```
        "params": "8",
        "error_handler": "2",
        "error_handler_params": "10"
    }
]
},
"auth": "038e1d7b1735c6a5436ee9eae095879e",
"id": 1
}
```

Response:

```
{
  "jsonrpc": "2.0",
  "result": {
    "itemids": [
      "44211"
    ]
  },
  "id": 1
}
```

## Creating dependent item prototype

Create Dependent item prototype for Master item prototype with ID 44211. Only dependencies on same host (template/discovery rule) are allowed, therefore Master and Dependent item should have same hostid and ruleid.

Request:

```
{
  "jsonrpc": "2.0",
  "method": "itemprototype.create",
  "params": {
    "hostid": "10001",
    "ruleid": "27665",
    "name": "Dependent test item prototype",
    "key_": "dependent.prototype",
    "type": "18",
    "master_itemid": "44211",
    "value_type": "3"
  },
  "auth": "038e1d7b1735c6a5436ee9eae095879e",
  "id": 1
}
```

Response:

```
{
  "jsonrpc": "2.0",
  "result": {
    "itemids": [
      "44212"
    ]
  },
  "id": 1
}
```

## Create HTTP agent item prototype

Create item prototype with URL using user macro, query fields and custom headers.

Request:

```
{
  "jsonrpc": "2.0",
  "method": "itemprototype.create",
  "params": {
    "type": "19",
    "hostid": "10254",
    "ruleid": "28256",
    "interfaceid": "2",
    "name": "api item prototype example",
    "key_": "api_http_item",
    "value_type": "3",
    "url": "{$URL_PROTOTYPE}",
    "query_fields": [
      {
        "min": "10"
      },
      {
        "max": "100"
      }
    ],
    "headers": {
      "X-Source": "api"
    },
    "delay": "35"
  },
  "auth": "038e1d7b1735c6a5436ee9eae095879e",
  "id": 1
}
```

Response:

```
{
  "jsonrpc": "2.0",
  "result": {
    "itemids": [
      "28305"
    ]
  },
  "id": 1
}
```

## Source

CItemPrototype::create() in *ui/include/classes/api/services/CItemPrototype.php*.

From:

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