

# Package ‘peermodels’

February 25, 2022

**Title** Client-Side R API Wrapper for Peer Models Network Model  
Repository

**Version** 0.10.3

**Description** Enables direct cloud access to health care decision models hosted on the PRISM server of the Peer Models Network.

**Depends** R (>= 3.6.0)

**License** GPL-3

**Encoding** UTF-8

**URL** <https://www.peermodelsnetwork.com>

**Imports** jsonlite, httr, curl, httr2, stringr

**RoxygenNote** 7.1.2

**NeedsCompilation** no

**Author** amin adibi [aut, cre],  
Mohsen Sadatsafavi [aut, cph]

**Maintainer** amin adibi <adibi@alumni.ubc.ca>

**Repository** CRAN

**Date/Publication** 2022-02-25 12:10:02 UTC

## R topics documented:

default_server . . . . .	2
draw_plots . . . . .	2
get_async_results . . . . .	3
get_default_input . . . . .	3
get_plots . . . . .	4
get_session . . . . .	4
handshake . . . . .	5
model_run . . . . .	5
prism_call . . . . .	6
reset_session . . . . .	7
<b>Index</b>	<b>8</b>

---

default_server	<i>Returns the default server path for PRISM server</i>
----------------	---

---

**Description**

Returns the default server path for PRISM server

**Usage**

```
default_server()
```

**Value**

the default server path for PRISM server

---

draw_plots	<i>draws plots generated by the model in R Session</i>
------------	--

---

**Description**

draws plots generated by the model in R Session

**Usage**

```
draw_plots(plot_number = NULL)
```

**Arguments**

plot\_number      the number of the plot to be rendered

**Value**

graphical object in R

---

get_async_results	<i>Retrieves async results</i>
-------------------	--------------------------------

---

**Description**

Retrieves async results

**Usage**

```
get_async_results(
  model_name = NULL,
  token = NULL,
  api_key = NULL,
  server = NULL
)
```

**Arguments**

model_name	name of the model
token	async job token
api_key	API key
server	Server address. Defaults to PMN.

**Value**

processed (from JSON to R object result of the call)

---

get_default_input	<i>Returns default PRISM model input</i>
-------------------	--

---

**Description**

Returns default PRISM model input

**Usage**

```
get_default_input(model_name = NULL, api_key = NULL, server = NULL)
```

**Arguments**

model_name	name of the model. If null, it will be set to the last call's value.
api_key	API key. If null, it will be set to the last call's value.
server	Server address. If null, it will be set to Peer Models Network PRISM server on the first run and to the last call's value on subsequent runs.

**Value**

default model inputs, which can be changed and submitted to the model for a different run.

**Examples**

```
## Not run:  
sample_input <- get_default_input(model_name = "accept", api_key = "YOUR_API_KEY")  
  
## End(Not run)
```

---

get_plots	<i>Retrieves plots generated by the model in R Session</i>
-----------	--

---

**Description**

Retrieves plots generated by the model in R Session

**Usage**

```
get_plots()
```

**Value**

URL of plots

---

get_session	<i>returns session info</i>
-------------	-----------------------------

---

**Description**

returns session info

**Usage**

```
get_session()
```

**Value**

returns current session variables

---

handshake	<i>checks to see if a model is available on the cloud server</i>
-----------	--

---

**Description**

checks to see if a model is available on the cloud server

**Usage**

```
handshake(model_name, server = default_server())
```

**Arguments**

model_name	name of the model
server	base url of the server

**Value**

TRUE if model is available on the server, FALSE otherwise

**Examples**

```
handshake("accept")
```

---

model_run	<i>Executes PRISM model</i>
-----------	-----------------------------

---

**Description**

Executes PRISM model

**Usage**

```
model_run(  
  model_name = NULL,  
  model_input = NULL,  
  api_key = NULL,  
  server = NULL,  
  async = FALSE,  
  email_address = NULL  
)
```

**Arguments**

model_name	name of the model
model_input	required custom parameters for current model
api_key	API key
server	server address. Defaults to the Peer Models Network PRSIM repository.
async	should the model be called in async mode?
email_address	async results will be emailed to this address

**Value**

0 for success and 1 for error

**Examples**

```
## Not run:
sample_input <- get_default_input(model_name = "epic", api_key = "YOUR_API_KEY")
sample_input$global_parameters.time_horizon <- 15
model_run ("epic", model_input = sample_input)

## End(Not run)
```

---

prism_call	<i>Generic call to PRISM server</i>
------------	-------------------------------------

---

**Description**

Generic call to PRISM server

**Usage**

```
prism_call(func, base_url, api_key = NULL, ...)
```

**Arguments**

func	function to call
base_url	the url to call
api_key	API key
...	other parameters

**Value**

processed (from JSON to R object result of the call)

---

reset_session	<i>resets session info and clears stored environmental variables such as API keys and server address.</i>
---------------	---

---

**Description**

resets session info and clears stored environmental variables such as API keys and server address.

**Usage**

```
reset_session()
```

# Index

default\_server, 2  
draw\_plots, 2

get\_async\_results, 3  
get\_default\_input, 3  
get\_plots, 4  
get\_session, 4

handshake, 5

model\_run, 5

prism\_call, 6

reset\_session, 7