

Package: sess (via r-universe)

October 21, 2026

Type Package

Title High-Performance IPC Bridge for R Sessions

Version 3.2.0

Description Implements a high-performance IPC bridge for R sessions using Unix domain sockets and Windows named pipes. Replaces legacy file-system watcher based workflows while keeping JSON-RPC communication semantics for IDE/editor integration.

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Encoding UTF-8

Imports processx (>= 3.5.0), later, jsonlite, utils, methods, rstudioapi

Suggests bit64, data.table, htmltools, htmlwidgets, systemfonts, httpgd, jgd, svglite, tinytest

NeedsCompilation no

Config/vscode-R/Interactive 1

Config/roxygen2/markdown TRUE

Config/roxygen2/version 8.1.0

Config/build/bootstrap TRUE

Config/vscode-R/source-revision git-tree:25da80133148500e2fc25eff593f49674324022e

Repository <https://reditorsupport.r-universe.dev>

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RemoteUrl <https://github.com/REditorSupport/vscode-R>

RemoteRef HEAD

RemoteSha f0fc8de93481474b2cc82df62fbeb046f60c06e8

RemoteSubdir sess

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connect	<i>Connect to the VS Code IPC server</i>
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Description

Connect to the VS Code IPC server

Usage

```
connect(  
  endpoint = NULL,  
  use_rstudioapi = TRUE,  
  plot_backend = c("auto", "jgd", "httpgd", "standard", "native"),  
  attachment_id = NULL,  
  auto_activate = TRUE  
)
```

Arguments

endpoint	Character. Local named pipe / Unix domain socket endpoint. If NULL, uses SESS_ENDPOINT, then SESS_DISCOVERY_FILE.
use_rstudioapi	Logical. Enable rstudioapi emulation. Defaults to TRUE.
plot_backend	Plot backend: auto, jgd, httpgd, standard, or native. NULL also selects auto.
attachment_id	Optional opaque identifier supplied by an external terminal integration to correlate this attachment with its preparation. It must be 1-128 ASCII characters from A-Z, a-z, 0-9, _, and -. It is not an authentication token or an exclusive ownership claim.
auto_activate	Logical. Whether vscode-R should select this attachment automatically. FALSE requires attachment_id.

Details

When SESS_DISCOVERY_FILE describes the connected endpoint, an unexpected disconnect waits for a replacement endpoint in that file and reconnects with the same runtime options and session identity. The optional discovery jgdSocket string updates JGD_SOCKET when the resolved backend includes jgd; an empty string clears it, and an omitted field leaves it unchanged. Set options(sess.quiet = TRUE) to suppress the successful connection message.

Value

Invisibly returns TRUE when the IPC connection and runtime startup succeed, or FALSE when the IPC endpoint is unavailable.

display	<i>Publish a rich Interactive output</i>
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Description

Publish a rich Interactive output

Usage

```
display(x, mime = NULL)
```

Arguments

x	Object to display, or text for an explicit MIME type.
mime	Optional MIME type, such as text/markdown or text/html.

interactive_stop	<i>Disconnect the persistent Interactive bridge without terminating R</i>
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Description

Restores sess runtime hooks without changing the frontend console callbacks.

Usage

```
interactive_stop()
```

notify_client	<i>Notify the client via IPC pipe (JSON-RPC 2.0 Notification)</i>
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Description

Notify the client via IPC pipe (JSON-RPC 2.0 Notification)

Usage

```
notify_client(method, params = list())
```

Arguments

method	A string representing the action (e.g., "dataview", "plot_updated")
params	A list containing the arguments for the command

request_client	<i>Emulate rstudioapi (or any client action) synchronously but without blocking the R Event Loop</i>
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Description

Emulate rstudioapi (or any client action) synchronously but without blocking the R Event Loop

Usage

```
request_client(action, args = list())
```

Arguments

action	String of the action name
args	List of arguments

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