# Session Manager

Megaladata's *Session Manager* is designed for viewing open sessions and packages, monitoring and managing their activity, and clearing the package pool.

> **Note:** Session Manager is only available in server editions of Megaladata.

The Session Manager page features a table organized into sections:

- **Sessions**: User sessions and the packages opened within them.
- **Shared packages**: Packages that are opened by the server via references from other packages, rather than belonging to a specific session. Multiple packages can reference a single shared package. A shared package cannot be closed while referenced by any running package or **Package pool** item.
- **Package pool**: Packages cached in server memory for reuse. This optimizes performance by eliminating the need to reload frequently used packages. The pool contains packages called directly by **Megaladata Integrator** and BatchLauncher, while the packages they reference belong to the **Shared packages** group. The pool size is defined in the server parameters. When the pool is full, the least recently used packages are removed from the pool. If a package file is modified, all its instances are automatically cleared from the pool.

## Table columns

- **Sessions and packages**: Displays the session name and the packages opened within it. To view the packages, expand the list by clicking on [+]". The session name consists of the username and a unique session identifier (similar to the one displayed in the server operation log).
- **Activity**: The time of the last activity in the session. When a node is executing in a child package, the **Activity** is highlighted in green. For the package, a progress bar is displayed, and the start time of the node activation is shown in the tooltip when hovering over the progress bar.
- **Host**: The IP address of the client from which the session was launched. When the **Resolve names by IP** option is enabled via the context menu, the hostname is displayed instead of the address.
- **Role**: The user's role in the session is displayed with the following icons:
  - **Administration**
  - **Workflow design**
  - **View reports**
  - **Batch processing**, i.e. execution from the Integrator

> If a user has multiple roles, the most privileged one is shown.

- **Version**: The package version in semantic versioning format.
- **Created**: The date and time the package file or session was created. This value doesn't show for a draft package.
- **Saved**: The timestamp of the last save. This field is blank for draft packages.
- **Path**: The full path to the package in the file storage. This doesn't apply to draft packages.

All columns, except for **Sessions and packages**, can be hidden. For packages within the **Shared packages**, the number of sessions that reference this package, including the reference from the server itself, is displayed to the right of the package name.

# Toolbar buttons

- **Refresh**: Refreshes the list of sessions or packages. This may remove already closed sessions/packages from the list or add new ones. The list also updates automatically every 5 seconds. A shortcut for the action: `Alt>` + `F5`
- **Stop**: Available for currently running sessions and packages. Terminates the selected item. Stopping a session stops all its packages. Conversely, if you stop the last running package in a session, the session itself will close. Requires user confirmation.
- **Close**: Closes the selected session or package and removes it from the table. The action requires user confirmation. Hotkey for the action: `Delete`.
- **Search**: Opens the search menu for the Session Manager's table. Searching within each column is also available through the menu in the column header. Action shortcut: `Ctrl` + `F`.
- **Send message to all active users**: Opens a dialog box where you can write a message to all active users.
- **Enter server maintenance mode**: An option to enter the server maintenance mode. Clicking the button opens a confirmation dialog box. You can also set a notification text to be sent to users (default is *The server is in maintenance mode*). When the server is in maintenance mode, the button will be highlighted.

These actions are also available from the context menu (opens through a right-click). In addition to the above, the context menu includes the following commands:

- **Resolve names by IP**: When this option is enabled, the hostname is displayed for all sessions. By default, the host's IP address is displayed.
- **Clear package pool**: Removes all packages from the package pool.
- **Send message to user**: Opens a dialog box where you can write a message to a specific user. The action is unavailable if nothing is selected in the Session Manager table or if the selected row does not relate to any user session (**Shared packages**, **Package pool**, etc.).

# Maintenance mode

When the server enters maintenance mode:

- Login is prohibited for all users except administrators.
- The server processes requests from the client; active sessions continue to run to allow saving changes.
- When entering/exiting the mode, a message is sent to all users except the administrator.
- Requests from the [Integrator] are no longer processed, even if the session was opened before entering the mode.
- [Scheduler] stops running scheduled tasks. For tasks with the status **Not started**, log entries are added to the **Completed** tab in the log.
- Starting a task manually in the **Scheduler** results in an error. The attempt is not recorded in the log.
- The Administration button is highlighted in orange.

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