

# Task History API

This article expands information needed to use the Task History SOAP API. Below you can find the valid values for

- Log Levels
- Log Message Source
- Task States
- Task Types

## Manipulating Task Log Messages

<code>com.r1soft.backup.server.api.group.Group</code>	Methods/properties for <code>Group</code> objects
<code>com.r1soft.backup.server.api.agent.GroupAgentPermission</code>	Methods/properties that a group has on an agent
<code>com.r1soft.backup.server.api.group.GroupService</code>	Methods for manipulating <code>Group(s)</code>
<code>com.r1soft.backup.server.api.taskhistory.LogMessage</code>	Methods/properties for manipulating a Task Log Message
<code>com.r1soft.backup.server.api.configuration.MemoryStatistics</code>	Methods/properties to get memory statistics
<code>com.r1soft.backup.server.api.OperationFailedFault</code>	API operation failed, an error occurred while performing the API operation
<code>com.r1soft.backup.server.api.policy.Policy</code>	Properties for manipulating policy data
<code>com.r1soft.backup.server.api.policy.PolicyService</code>	Methods for manipulating Data Protection Policies

The `com.r1soft.backup.server.api.taskhistory.LogMessage` class contains methods and properties for manipulating a Task Log Message. Some of the methods are:

- **`getMessageSource ()`** - Returns the Source of the Log Message.
- **`setMessageSource (LogMessageSource messageSource)`** - Sets the Source of the Log Message. Log Message Sources can be as follows:
  - **SERVER** - Indicates a message that originated on the CDP server.
  - **AGENT** - Indicates a message that originated on the CDP agent.
- **`getMessageLevel ()`** - Returns the Log Level of the Message.
- **`setMessageLevel (LogLevel messageLevel)`** - Sets the Log Level of the Message. Log Levels can be as follows:
  - **INFO** - Indicates a message that is informational in nature.
  - **WARNING** - Indicates a message that warns about an issue.
  - **SEVERE** - Indicates a message that describes an error condition.

See also [Viewing Log Messages](#).

## Manipulating Task History

<code>com.r1soft.backup.server.api.taskhistory.TaskExecutionContext</code>	Methods/properties for manipulating a <code>TaskExecutionContext</code>
<code>com.r1soft.backup.server.api.configuration.TaskExecutionPoolInformation</code>	Methods/properties to get task execution pool
<code>com.r1soft.backup.server.api.taskhistory.TaskHistoryService</code>	Methods for manipulating Task History
<code>com.r1soft.backup.server.api.configuration.TaskSchedulerStatistics</code>	Methods/properties to get task execution statistics
<code>com.r1soft.backup.server.api.UnknownObjectFault</code>	API operation failed, an object was not found on the server
<code>com.r1soft.backup.server.api.user.User</code>	Methods/properties for <code>User</code> objects

The `com.r1soft.backup.server.api.taskhistory.TaskHistoryService` class contains methods for manipulating Task History. Some of the methods are:

- **`getTaskExecutionContextIDsByLogLevels (@WebParam(name="logLevels") List< LogLevel > logLevels)`** throws **`AccessControlFault`**, **`OperationFailedFault`** - Gets a List(UUID) of Task Execution Context IDs filtered by Task State. Task States can be as follows:
  - **`FINISHED`** - Indicates that a task has completed successfully.
  - **`RUNNING`** - Indicates that a task is currently running.
  - **`QUEUED`** - Indicates that a task is queued, waiting to be run.
  - **`CANCELLED`** - Indicates that a task was cancelled.
  - **`ERROR`** - Indicates that the task has completed with errors.
  - **`DUPLICATE`** - Indicates that the task was a duplicate of a running task.
- **`getTaskExecutionContextIDsByTaskType ( @WebParam(name="taskTypes") List< TaskType >taskTypes )`** throws **`AccessControlFault`**, **`OperationFailedFault`** - Gets a List(UUID) of Task Execution Context IDs filtered by Task Type. Task Types can be as follows:
  - **`DATA_PROTECTION_POLICY`** - Indicates the task was a Data Protection Policy Task.
  - **`FILE_RESTORE_TASK`** - Indicates the task was a File Restore Task.
  - **`MERGE_RECOVERY_POINTS`** - Indicates the task was a Merge Recovery Points Task.
  - **`VACUUM`** - Indicates the task was a Vacuum Task.
  - **`DATABASE_RESTORE`** - Indicates the task was a Database Restore Task.
  - **`BARE_METAL_RESTORE`** - Indicates the task was a Bare Metal Restore Task.
  - **`EMAIL_REPORTING`** - Indicates the task was an Email Reporting Task.
  - **`ARCHIVE`** - Indicates the task was an Archive Task.
  - **`DELETE_ARCHIVE_POINTS`** - Indicates the task was a Delete Archive Points Task.
  - **`STREAM_CONTROL_PANEL_USERS_ARCHIVE`** - Indicates the task was a Stream Control Panel Users Task.
  - **`TASK_HISTORY_CLEAN_UP`** - Indicates the task was a Task History Clean-up Task.

See also [Accessing Task History](#). See more information about Task History in [Task History](#).