

# CSCE 740 - MEAT Scripting Interface

In the original project description, the customer requested the ability to upload a script of commands to the MEAT system in order to facilitate automated meeting management.

Scripts can be executed through the command line by providing them as an argument to MEAT. For example:

```
java - jar MEAT.jar scriptfile.json
```

The scripting format shall be a JSON-formatted file, containing one or more **commands**. Each command shall have a **name** and zero or more **arguments**. Each argument has a **name** and **value**. In the abstract, this is formatted as:

```
[{
  "commands": [
    {
      "name": <command name>,
      "arguments": [
        {
          "name": <argument name>,
          "value": <argument value>
        }
      ]
    }
  ]
}]
```

The following commands are supported (these correspond to the major functionality of the system):

Command Name	Expected Arguments	
add-meeting	This command is used to add a meeting to the calendar.	
	<b>Name</b>	<b>Value Format</b>
	date	String, formatted as MMDDYYYY
	start-time	String, formatted as "HH:MM". 24-hour clock will be used for scripts.
	end-time	String, formatted as "HH:MM". 24-hour

		clock will be used for scripts.
	room-id	String, should correspond to an entry in the room database.
	attendee	String, argument may be used multiple times. Indicates one attendee each time. Can correspond to either a name (for external attendees) or an employee ID.
	description	String
edit-meeting-details	This command is used to edit all non-attendee details of a meeting. Arguments are used to overwrite existing values. Missing arguments should retain their original values.	
	<b>Name</b>	<b>Value Format</b>
	meeting-id	String
	date	Integer, formatted as MMDDYYYY
	start-time	String, formatted as “HH:MM”. 24-hour clock will be used for scripts.
	end-time	String, formatted as “HH:MM”. 24-hour clock will be used for scripts.
	room	String
	description	String
edit-meeting-add-attendees	This command is used to add attendees to an existing meeting.	
	<b>Name</b>	<b>Value Format</b>
	meeting-id	String
	attendee	String, argument may be used multiple times. Indicates one attendee each time. Can correspond to either a name (for external attendees) or an employee ID.

edit-meeting-remove-attendees	<p>This command is used to remove attendees from an existing meeting.</p> <table border="1" data-bbox="662 317 1422 657"> <thead> <tr> <th>Name</th><th>Value Format</th></tr> </thead> <tbody> <tr> <td>meeting-id</td><td>String</td></tr> <tr> <td>attendee</td><td>String, argument may be used multiple times. Indicates one attendee each time. Can correspond to either a name (for external attendees) or an employee ID.</td></tr> </tbody> </table>	Name	Value Format	meeting-id	String	attendee	String, argument may be used multiple times. Indicates one attendee each time. Can correspond to either a name (for external attendees) or an employee ID.				
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delete-meeting	<p>This command is used to delete a meeting, vacation time, or a holiday from the calendar.</p> <table border="1" data-bbox="662 831 1422 961"> <thead> <tr> <th>Name</th><th>Value Format</th></tr> </thead> <tbody> <tr> <td>meeting-id</td><td>String</td></tr> </tbody> </table>	Name	Value Format	meeting-id	String						
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add-vacation	<p>This command is used to schedule vacation time.</p> <table border="1" data-bbox="662 1102 1422 1465"> <thead> <tr> <th>Name</th><th>Value Format</th></tr> </thead> <tbody> <tr> <td>employee-id</td><td>String, should correspond to an entry in the employee database.</td></tr> <tr> <td>start-date</td><td>String, formatted as MMDDYYYY</td></tr> <tr> <td>end-date</td><td>String, formatted as MMDDYYYY</td></tr> <tr> <td>description</td><td>String</td></tr> </tbody> </table>	Name	Value Format	employee-id	String, should correspond to an entry in the employee database.	start-date	String, formatted as MMDDYYYY	end-date	String, formatted as MMDDYYYY	description	String
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add-holiday	<p>This command is used to schedule a company-wide holiday.</p> <table border="1" data-bbox="662 1640 1422 1835"> <thead> <tr> <th>Name</th><th>Value Format</th></tr> </thead> <tbody> <tr> <td>start-date</td><td>String, formatted as MMDDYYYY</td></tr> <tr> <td>end-date</td><td>String, formatted as MMDDYYYY</td></tr> </tbody> </table>	Name	Value Format	start-date	String, formatted as MMDDYYYY	end-date	String, formatted as MMDDYYYY				
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print-schedule-all	<p>This command is used to print a company-wide schedule to a log file.</p> <table> <tr> <th>Name</th><th>Value Format</th></tr> <tr> <td>start-date</td><td>String, formatted as MMDDYYYY</td></tr> <tr> <td>end-date</td><td>String, formatted as MMDDYYYY</td></tr> <tr> <td>output-file</td><td>String, name of output file</td></tr> </table>	Name	Value Format	start-date	String, formatted as MMDDYYYY	end-date	String, formatted as MMDDYYYY	output-file	String, name of output file		
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print-schedule-employee	<p>This command is used to print a employee-specific schedule to a log file.</p> <table> <tr> <th>Name</th><th>Value Format</th></tr> <tr> <td>employee-id</td><td>String, should correspond to an entry in the employee database.</td></tr> <tr> <td>start-date</td><td>String, formatted as MMDDYYYY</td></tr> <tr> <td>end-date</td><td>String, formatted as MMDDYYYY</td></tr> <tr> <td>output-file</td><td>String, name of output file</td></tr> </table>	Name	Value Format	employee-id	String, should correspond to an entry in the employee database.	start-date	String, formatted as MMDDYYYY	end-date	String, formatted as MMDDYYYY	output-file	String, name of output file
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print-schedule-room	<p>This command is used to print a room-specific schedule to a log file.</p> <table> <tr> <th>Name</th><th>Value Format</th></tr> <tr> <td>room-id</td><td>String, should correspond to an entry in the room database.</td></tr> <tr> <td>start-date</td><td>String, formatted as MMDDYYYY</td></tr> <tr> <td>end-date</td><td>String, formatted as MMDDYYYY</td></tr> <tr> <td>output-file</td><td>String, name of output file</td></tr> </table>	Name	Value Format	room-id	String, should correspond to an entry in the room database.	start-date	String, formatted as MMDDYYYY	end-date	String, formatted as MMDDYYYY	output-file	String, name of output file
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Names must be formatted as they appear above. Argument names and values must also be formatted as above. Failure to maintain compatibility will result in a loss of points.

The output of any of the schedule commands should also be a JSON-formatted file, in the following abstract format:

```
[{
  "events": [
    {
      "meeting-id": <ID>,
      "date": <Date>,
      "start-time": <Time>,
      "end-time": <Time>,
      "room-id": <Room>,
      "description": <Description>,
      "attendees": [
        {
          "name": <Name or employee ID>
        }
      ]
    }
  ]
}]
```

If you spot any mistakes or inconsistencies, or have any questions, please let us know.