

Using the Geo-Driven Case-Based Wizard

Software Setup

It is assumed that the MissionLab toolkit has already been installed. If it has not, please refer to the installation documentation before continuing.

In order to utilize the geo-driven case-based wizard the following software is required: cbrserver, CfgEdit, iptserver, the *cim*, and the *OI*.

Steps:

Starting the cim

- 1) Change to the root directory of the *cim* software package.
- 2) Execute the *cim* software
Using: 'java -jar lib/cim.jar'

Starting the OI

- 3) Change to the root directory of the OI software package
- 4) Execute the OI software.
Using: './run/run.oι.bash'
- 5) Press enter when prompted for a username
- 6) Enter in a mission name and any other necessary information concerning the mission theatre and then press ok

Starting the cbrserver

- 7) In another window, change to the MissionLab working directory.
Use: '*mlabhome*/demos/minos-demos' if unsure. '*mlabhome*' is the directory in which MissionLab was installed.
Note: The working directory should contain the overlay appropriate for the mission area where the mission will take place. In addition, if using a previously created case library, the library should also be in the working directory
- 2) Start the case-based mission server 'cbrserver' by executing either:
 - a) 'cbrserver' to start a new case library
 - b) or 'cbrserver -l mylibraryname.cbl' to use an existing case library

Starting iptserver

- 2.5) In another window, start iptserver by typing 'iptserver'

Starting CfgEdit

- 3) In another window, start CfgEdit, the graphical mission editor, by executing
 - a) 'cfgedit'

Using the Geo-Driven Interface

- 1) When presented with the startup screen click on: **New Robot**
- 2) When presented with the resulting options menu, click on the box for: **Menu Driven Mission Specification Wizard** and then press the button labeled: **Launch**
- 3) A menu for configuring the connection to the *cim* and MPPC should appear.
- 4) If the *cim* is running on the same computer as CfgEdit, the values under: **SGIG Host Name** and **SGIG Port Number** do not need to change.
- 5) If the *cim* is running on a different computer, enter in the IP address and port number used by the computer the *cim* is running on.
- 6) Click on the button labeled: **Connect**
- 7) Click on the button labeled: **Subscribe**
- 8) If properly configured, a message concerning the subscription should appear in the text box above the **Subscribe** button
- 9) Click the button labeled: **Done**
- 10) Click the button labeled: **Next** at the resulting welcome screen.
- 11) A message concerning the mission environment should appear in the resulting screen. Press the button labeled: **Next**
- 12) An overlay selection dialog should appear. Highlight the desired overlay by clicking on it, then click the button labeled: **OK**
- 13) Click the button labeled: **OK** to remove the instructions dialog
- 14) Click the button labeled: **Apply** on the resulting dialog
- 15) Adjust the number of robots using the slider bar in the top right of the screen
- 16) If desired add any weather, no-fly, or no-comm zones by clicking the appropriate buttons on the top right of the screen and then placing them on the overlay.
- 17) Press the button labeled: **Finish** to continue
- 18) A listing of the relevant cases retrieved by *cbrserver* is shown
- 19) Cases can be sorted by different criteria by clicking the appropriate headings
- 20) Case can be searched for comments by typing the desired phrase in the text box to the left of the **Filter** box and then clicking the **Filter** button

Case Details

- 21) The details of a particular case can be viewed by clicking the **Detail** button to the right of the case.
- 22) The dialog that results from the **Detail** button contains comments concerning the selected case as well as an overview of the objectives contained within
- 23) To select this particular case press the button labeled: **Choose**
- 24) To view the FSA based mission plan for the case press the button labeled: **Assemblage**
- 25) When viewing the **Assemblage**, click the button in the bottom right labeled: **Return to UAV Wizard** to return from the assemblage view.

Rehearsing a Mission

- 26) To rehearse a mission, click the rehearse button to the right of the desired case
- 27) When done viewing the rehearsal, go the **File** menu in the top left corner of the screen and select: **Quit**

Sending a Mission to the *cim*

- 28) If no rehearsal is required, a mission can be sent to the *cim* by clicking the **Send** button to the right of the desired case
- 29) If rehearsal has taken place, click **Next** on the comments screen to send the mission to the *cim*

Rating and Commenting a Mission

- 30) Upon rehearsal or sending a mission, a dialog appears where the user can add comments concerning the mission
- 31) If the user wants to add comments about the mission click the button labeled: **Rate and Comment**
- 32) Enter the appropriate comments and ratings and click on the button labeled: **Save**
- 33) If you want to select a different case click the button marked: **Back**

Importing objectives into the OI

- 34) To import the sent objectives within the OI return to the OI software and go to the **Objectives** menu at the top of the OI menu and select **Import Objectives** from the menu
- 35) Click the **OK** button in the resulting dialog