



SITU & CPDLC Guide

Revision 1.0

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1. SITU Interface and Tools

[VATCAN Situ](#) is a EuroScope plugin to simulate tools from NAVCAN Suite

1.1. Data Tags

Tag formats

Tag format	Displayed fields
Alpha Tags	Line 1: [Medevac Indicator][ACID][Weight Category][Voice Capabilities][SFI] Line 2: [Mode C Alt][VMI][VMR][Cleared Alt][Filed Alt][Ground Speed][Assigned Speed/Mach] Line 3: [Aircraft Type][Destination] Line 4: [Controller Remarks]
Bravo Tags	Line 1: [Mode C Alt][VMI][VMR]
Uncorrelated	Line 1: [Current 3/A Code] Line 2: [Mode C Alt][VMI][VMR]

Field reference

Field	Meaning
Medevac Indicator	Enabled if the flight plan remarks contain [STS/MEDEVAC]. Displays red [+] in front of the ACID.
ACID	Aircraft identification/callsign.
Weight Category	As defined by the aircraft's flight plan. Displays [-] for light, [+] for heavy, and [\$] for super.
Voice Capabilities	Default VATSIM/EuroScope voice rules. Displays [/t] for text only, and [/r] for receive only.
SFI	Special Function Indicator An alphanumeric field used to pass information for coordination. Set via the SFI Key [F4] or Target Popup List.
Mode C Altitude	Current altitude readout expressed in 100 foot units.
VMI	Vertical Movement Indicator Up or down arrow that appears when the aircraft is climbing or descending.
VMR	Vertical Movement Rate Represents the rate of movement when the aircraft is climbing or descending.

Cleared Altitude	Shown in orange and prefixed by [C]. Will be suppressed if the current altitude is within 200 feet of the cleared altitude, unless Extended Alt is selected and toggled on for the data tag. If no cleared altitude is set, [clr] will be displayed only if Extended Alt is selected and toggled on for the data tag.
Filed Altitude	Shown in orange and prefixed by [F]. Will only be shown if Extended Alt is selected and toggled on for the data tag [left click Mode C Alt].
Aircraft Type	As defined by the aircraft's flight plan.
Destination	As defined by the aircraft's flight plan.
Controller Remarks	As entered in the scratchpad.

1.2. Radar Position Symbol (RPS)/Present Position Symbol (PPS)

Radar Position Symbol

- Clicking on the RPS will select the aircraft and toggle between Alpha/Bravo Tags.
- Aircraft under your jurisdictional control cannot be reverted to a Bravo Tag.

Primary radar symbols

RPS Symbology Legend	Radar Source	ADS-B Source
Uncorrelated		
Correlated		
VFR		
RVSM		

Alert and selection states

Emergency		Extrapolated		Block Select	
Emergency		Extrapolated		Block Select	

1.3. Quick Action Bar (QAB)

The QAB is a multifunction toolbar shown at the top of all radar screens. Not all buttons are functional. Functionality of operational buttons is described below.



Core QAB controls

QAB control	Function
Destination Highlight	Operated by the [Dest Airport] button. When activated, the destination field of the data tag will be forced on and displayed in white. A white circle will also be drawn around the target RPS.
Altitude Filter	Operated by the [Alt Filter] button and toggled on/off by the selected altitude [000-000] button. When activated, the radar screen will only show aircraft within a selected altitude range. Aircraft that are under your jurisdictional control will still be shown regardless of the altitude filter setting. Set in increments of 100 feet.
Halo Tool	Operated by the [Halo] button. Clicking will open the Halo Tool submenu. Halos can be activated for individual targets by clicking on their RPS. Halo cursor can also be toggled which draws a constant halo around your mouse cursor - disable the cursor before clicking on any other menus.
PTL (Predicted Track Line) Tool	Operated by the [PTL] button. Clicking will open the PTL Tool submenu. PTL's can be activated for individual targets by clicking on their RPS or for all aircraft with the [PTL All] button. [PTL All] can also be toggled with the PTL Key [F3].
Current CJS (Controller Jurisdiction Symbol)	Displays your current CJS in a green highlighted button.

Display and filter controls

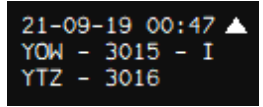
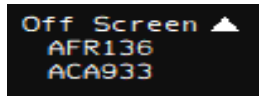
QAB control	Function
Quick Look Function	Operated by the [Qck Look] button. Clicking will open a submenu where nearby CJS can be toggled. Forces tags owned by the selected CJS to display in the same format as your own targets.
Display All Function	Operated by the [ALL] button. Forces all tags to an Alpha Tag. Can also be toggled with the [F9] key.

Extended Altitude Line	Operated by the [Ext] button. When activated, extends Line 2 of the data tag to show cleared and filed altitudes for a target. Once the [Ext] button is selected in the QAB, click the target's current altitude readout to expand or collapse the extended altitude line.
Extrapolated Tags	Toggles flight plan track estimates on/off by clicking the airplane symbol.
Weather Radar	Weather radar can be toggled by using the [High] or [All] buttons to show high intensity weather or all weather respectively. Weather radar latitude/longitude must be set prior in the settings.json in the situWx folder.

1.4. Lists

The plugin adds two additional lists to aid controller situational awareness. When the list contains any item(s), they can be expanded or collapsed by clicking the header.

Situational-awareness lists

List	Purpose	Example
Altimeter Station & ATIS List	Displays a list of airports that have an active runway selected with their altimeter setting and current ATIS, if online.	 21-09-19 00:47 ▲ YOW - 3015 - I YTZ - 3016
Off Screen List	Displays a list of aircraft under your jurisdictional control that are not within range of your current radar view.	 Off Screen ▲ AFR136 ACA933

1.5. Function Keys

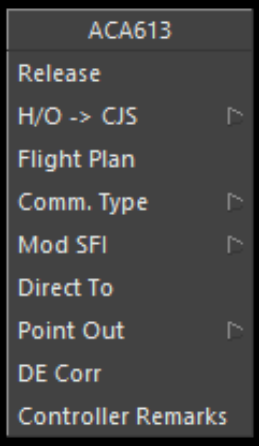
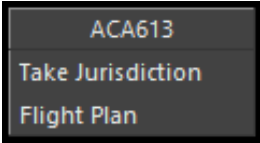
Function key abilities are operated by pressing the respective key to access the CAATS designated command; to access default EuroScope commands, hold down the respective function key.

Function-key reference

Key	Function
F1 - H/O	Cycle through all targets under your jurisdictional control. A white box will be drawn around the RPS/PPS, with the text [H/O] below and the target CJS displayed above the box.
F3 - PTL	Toggle on or off Predicted Track Lines for all aircraft.
F4 - SFI	Cycle through all targets under your jurisdictional control. A white box will be drawn around the RPS/PPS, the target ACID will be displayed in white and the text [SFI] will appear below the box. The SFI can then be modified by pressing any keyboard alpha key.
F9 - ALL	Toggle on or off the Display All function.

1.6. Target Popup Menu

The target popup menu allows the controller to perform various tasks. It is operated by right clicking (MB3) the ACID of the desired target's datatag.

	
Target popup menu	Jurisdiction menu

Primary target actions

Action	Function
Assume/Release Jurisdiction	Will assume or release jurisdiction of the aircraft.
Handoff	Will initiate a handoff to the selected CJS. If the next sector is defined, an option to directly handoff to that sector will be available. A manual handoff can also be initiated from the drop down menu. If the target CJS is not defined, the [EXP] option can be selected and the CJS manually typed in.
Flight Plan	Opens the flight plan dialogue for the aircraft.
Communication Type	Opens a dropdown menu to set the aircraft's voice capability.
Modify SFI	Opens a dropdown menu to modify the SFI for the aircraft. By default the list will show the first few letters of the alphabet, however it can also be modified in the settings.json or .asr files.

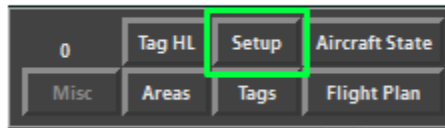
Routing and target tools

Action	Function
Direct To	Opens a popup window which allows the controller to select a direct-to point along the aircraft's route of flight. Once the fix is selected, a white dashed line will be drawn from the target's RPS/PPS to the fix, and the aircraft's present position will be added to the flight plan route.
Point Out	Opens a popup window to operate the point out function. A white box will be drawn around the RPS, with the text [P/Out], the selected CJS, and the point out message. A private chat will also be sent to the controller for compatibility with users not using the plugin.
Decorrelate	Will decorrelate the selected target.
Controller Remarks	Opens a popup window which allows the controller to add remarks to the datatag. Remarks can be preset in the settings.json file or manually typed in the text field.

2. Connecting to the Hoppie Network

Before opening EuroScope, confirm that a valid Hoppie code is present in your settings.json file!

- 1 **Open SITU Setup:** In EuroScope, select SITU > Setup.
- 2 **Enter the logon ID:** Use the station ID for the service you are providing.
- 3 **Log on:** Select Logon, confirm the button remains depressed, then close the dialog.



If the 'Logon' button remains active you are successfully connected

VERIFICATION Confirm the station is shown online at [Hoppie ACARS Online](https://www.hoppie.ca/ACARSOnline)

2.1. Station IDs and Controller Information

Service	Logon ID	Use
PDC	CYVR / CYYJ / CYXX / CYLW	Use the station issuing the PDC
CPDLC	CZVR	Use for Vancouver Centre CPDLC

Controller Information examples

PDC

Station issuing PDCs

"VANCOUVER GROUND" | PDC CODE CYVR

CPDLC

Vancouver Centre

"VANCOUVER CENTRE" | CPDLC CZVR

Advertise the correct PDC or CPDLC logon in your controller information

3. PDC

PDC requests do not require a CPDLC logon. Do not accept a logon request from an aircraft while processing a PDC.

3.1. Recognizing the Request

- A new PDC request appears as an unfilled green box under the “C” column in the departure list.
- Before issuing the clearance, ensure the departure list or strip is completed correctly in accordance with the applicable SOPs.

3.2. Sending the Clearance

1	Open the request: Select the unfilled green box in the departure list.
2	Select the downlink: Choose the D/L entry that contains the PDC request.
3	Open the PDC editor: Select PDC. Use the middle mouse button to move SITU dialog boxes when required.
4	Verify the clearance: Check the route, runway, altitude, frequency, and remarks before sending.
5	Send or decline: Select Send when correct. Select Unable when the clearance cannot be issued by PDC.

Result: *The PDC FPUI (Flight Plan Unique Identifier) is automatically copied to the aircraft's scratchpad*

3.3. PDC Decision Check

Check	Action
Can the clearance be issued as prepared?	Select Send.
Does it require voice coordination or cannot be issued by PDC?	Select Unable and use the appropriate alternate method.
Did a logon request appear with the PDC?	Ignore it for PDC or Select Unable; no logon is required.
REMINDER	UPLINK means a message sent by a controller. DOWNLINK means a message sent by a pilot.

4. CPDLC

LIMIT

CPDLC may be used only above FL290. A controller may accept the logon earlier, but data-link service begins above FL290.

4.1. Availability and Aircraft Status

Use the same Hoppie connection steps described in Section 2, and advertise the CZVR CPDLC logon code in your controller information.

Hollow green box

Logon request pending



Solid green box

Connected or message available



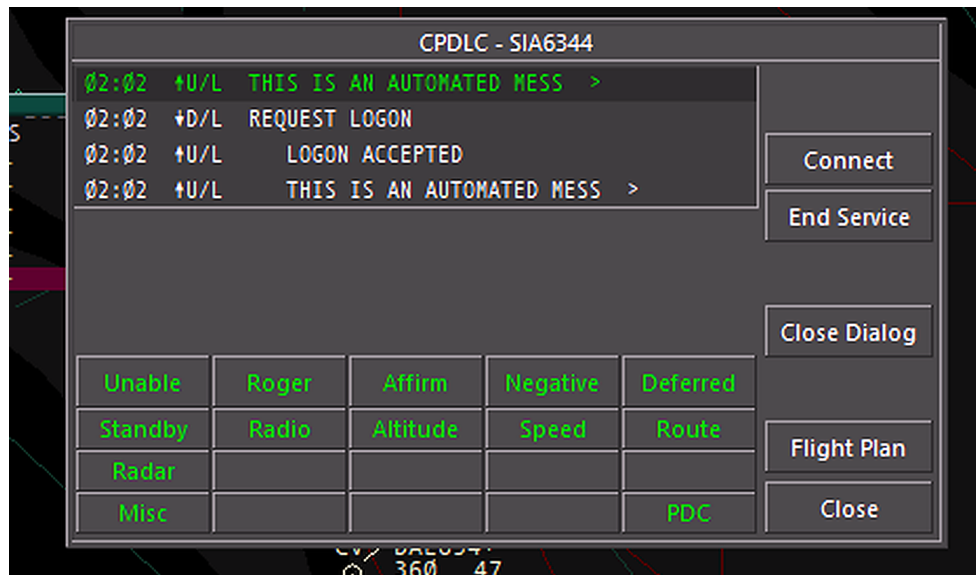
New downlink messages appear above the aircraft tag in blue. Right clicking the blue messages will clear them from above the aircraft's tag. Select either the tag indicator or the sector exit list indicator to open the CPDLC menu.

VOICE

CPDLC does not replace the required voice check-in or continuous monitoring of the assigned frequency.

4.2. Accept a Logon

- 1 **Open the CPDLC menu:** Select the hollow green indicator on the aircraft tag or sector exit list.
- 2 **Select the request:** Choose the relevant REQUEST LOGON downlink.
- 3 **Connect:** Select Connect. SITU sends an automated message confirming the successful logon.
- 4 **Confirm the status:** The hollow indicator becomes solid green and new messages appear above the tag in blue.



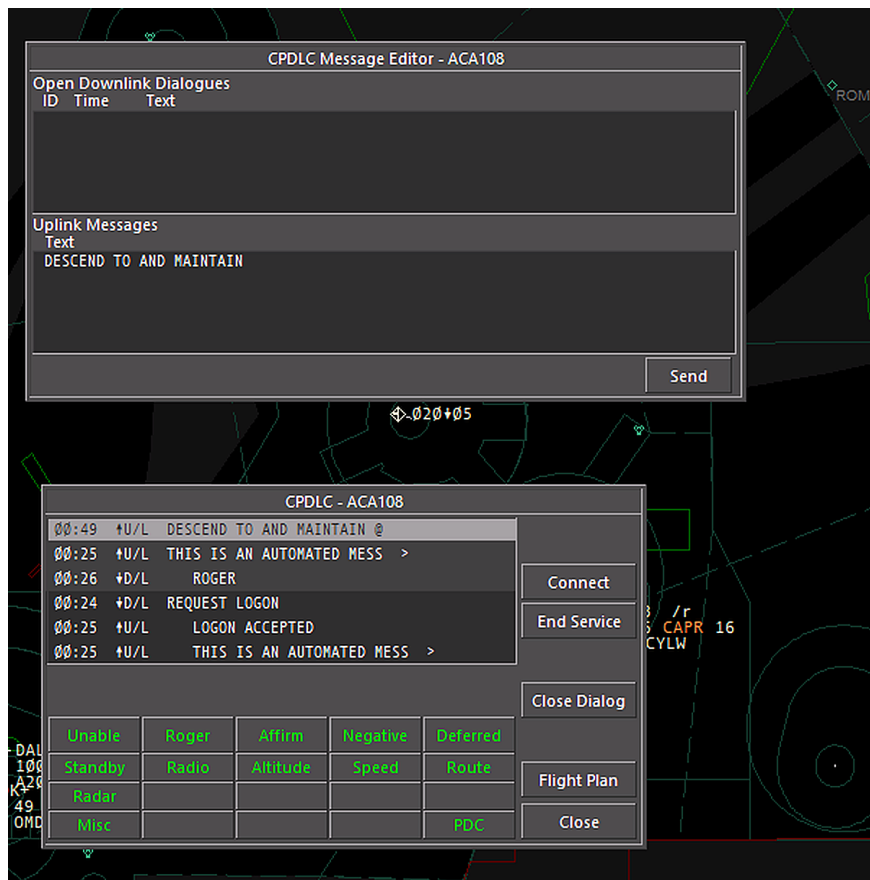
5. Messaging and Transfer of Service

5.1. Respond to a Downlink

- 1 **Select the downlink:** Open the CPDLC menu and choose the message requiring a response.
- 2 **Build the uplink:** Use the message buttons to compile the response in the CPDLC Message Editor.
- 3 **Review and send:** Confirm the assembled text, then select Send.

5.2. Send a New Message

- Select the solid green indicator on the aircraft tag or sector exit list.
- Choose the appropriate message category and message, review the editor, and send.



LIMIT

Free-text uplinks are not currently supported. Use the available structured message set.

5.3. Transfer Communications

- | | |
|----|---|
| 1 | Select the instruction: Choose Radio, then the appropriate contact or monitor message. |
| 2a | No CPDLC at the next station: Send an End Service uplink, including when the next station is UNICOM. |
| 2b | Next controller supports CPDLC: Send Radio > Next Data Authority. |
| 3 | Verify the frequency: The next frequency is populated automatically; confirm it before sending. UNICOM is supported as a next frequency. |
| 4 | Confirm the handoff: After the transfer or termination, the green indicator should become hollow again. |

No CPDLC or UNICOM: *Send an End Service uplink after issuing the contact or monitor instruction.*

CPDLC-supported next station: *Send Radio > Next Data Authority, then verify the automated frequency before sending.*

CHECK

The next frequency is populated automatically. Always confirm that it is correct before sending the uplink!

6. Notes, Known Issues, and References

6.1. Operational Notes

- CPDLC still requires a voice check-in, and aircraft must continue monitoring the assigned frequency.
- Data-link communications have a noticeable delay. Use voice for urgent or time-critical instructions.

6.2. Known Issues

Issue	Workaround / impact
Descent restriction	CPDLC descent instructions currently work only for descents to FL180 or above.
REPORT BUGS	Please report any issues you encounter so the service and supported message set can continue to improve.

7. Revision History

Version	Subject	Authorized	Date
1.0	Initial	Alessio Orlando	July 25, 2026