

V-LARA Airspace Reservation

Virtual LARA Airspace Reservation

Record of Amendments

Version	Issue Date	Reason for Change
0.1 d1	28 DEC 2024	Initial draft
0.1	23 JAN 2025	Open beta
1.0	16 JUL 2025	Introduction of multiple FIR support
1.1	12 AUG 2025	New GUI elements. Preparations for EGXX and EGXX clusters.

* showing only large updates

V-LARA Booking Client - Pilot Guide

[Link to LARA Web Booking Client](#)

<https://lara.lusep.fi/>

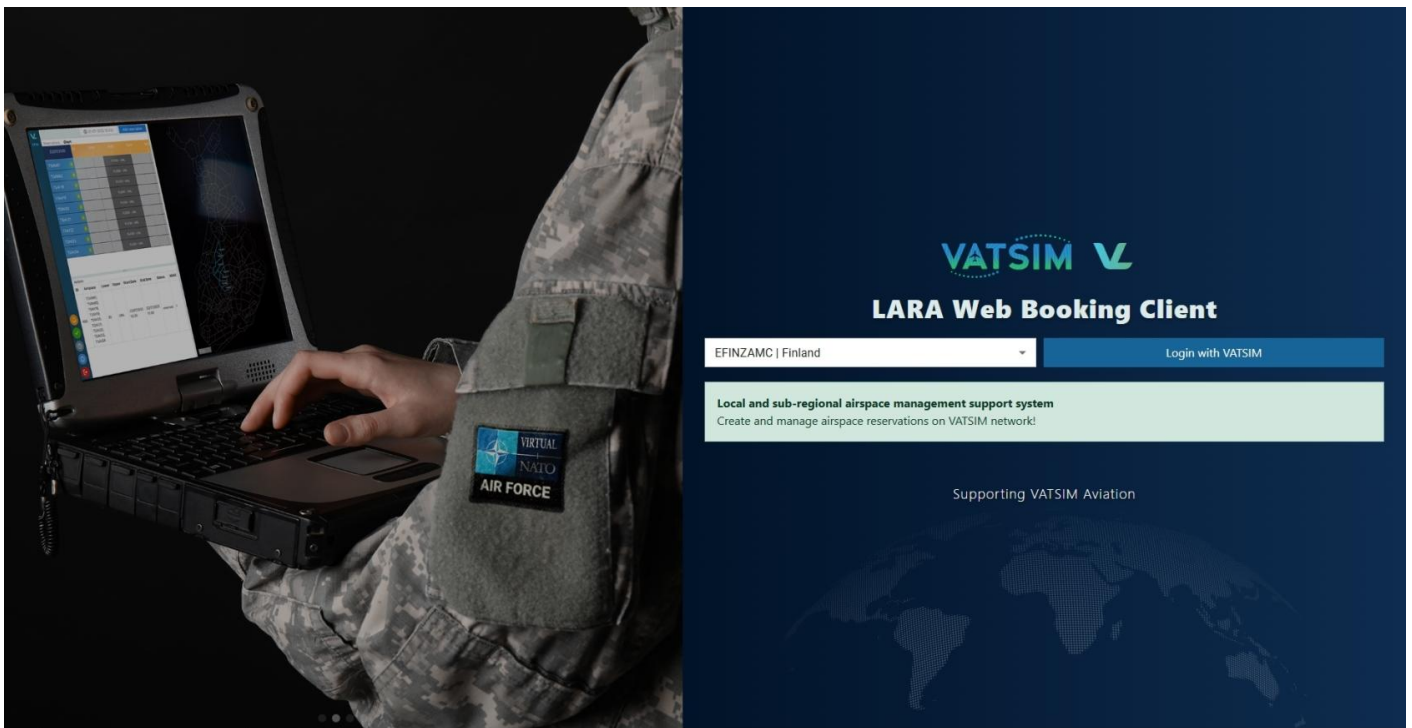
1. INTRODUCTION

The V-LARA Web Booking Client can be used to make airspace reservations in Finland on VATSIM network. Pilots or organizations can view all upcoming airspace reservations in Finland and add their own reservations.

It is currently possible to make reservations for all TSA, TRA and Local TRA areas in Finland either for Civil or Military operations. Pilots and organizations are kindly requested to familiarize themselves with the procedures for operations in Reserved Areas (including flight planning and phraseology).

Check the **Basic Use Case** and **Useful Links & Phraseology** at the end of this page!

2. LOGIN PAGE



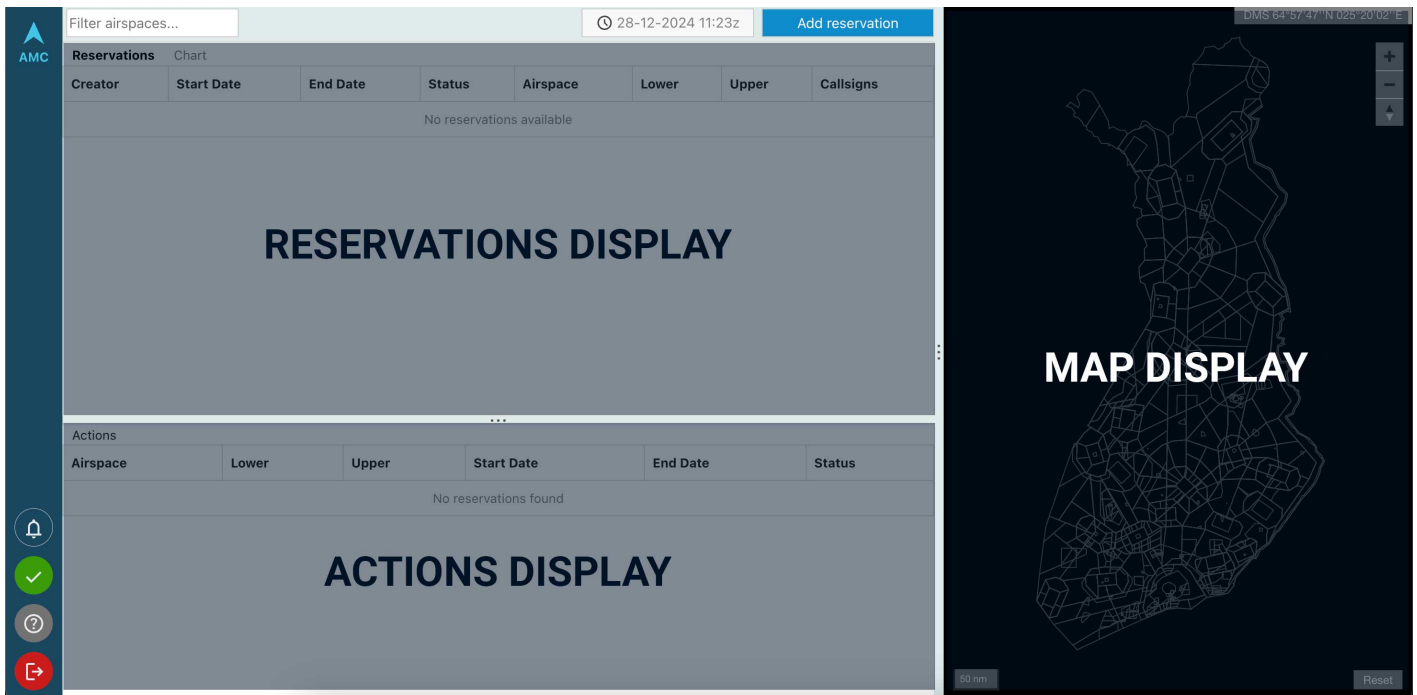
When the page loads, you will be automatically shown the login page. The V-LARA application uses VATSIM OAuth2 login for authenticating users. The `PilotView` will be opened automatically after successful authentication.

2.1 LOGIN ERRORS

If the login process fails, the error message will be displayed below the login button.

- **Login Failed. If problems persist, please contact your system administrator.**

3. MAIN PAGE



The main page is broken up into three main sections: the **Reservations Display**, the **Actions Display**, and the **Map Display**.

The navigator bar on the left has number of buttons for performing actions:

- **Notification Icon** - (currently only in use for AMC/ATC)
- **Status Icon** - displays the connectivity between the Web Client and the server
- **Help Button** - links to this user guide
- **Logout Button** - log the currently logged in user out of V-LARA

4. RESERVATION DISPLAY

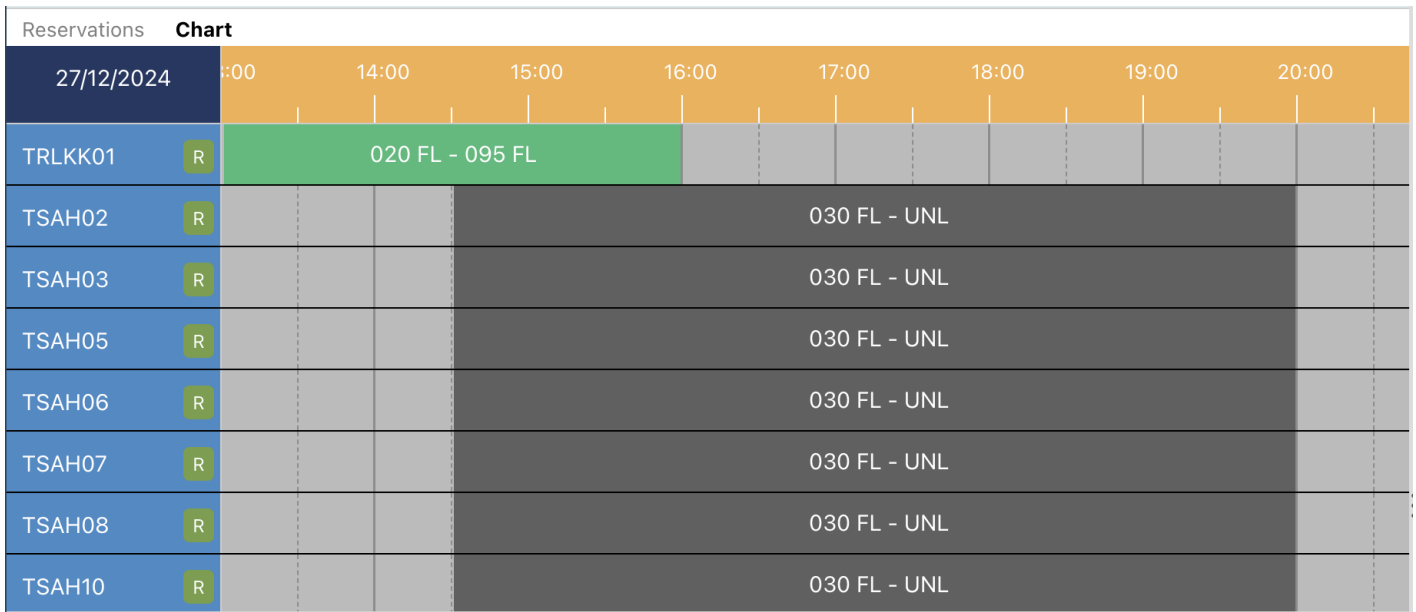
Creator	Start Date	End Date	Status	Airspace	Lower	Upper	Callsigns
10000003	28/12/2024 16:00	28/12/2024 19:00	reserved	TSAH02, TSAH03, TSAH05, TSAH06, TSAH07, TSAH08, TSAH10, TSAH12, TSAH13	30	UNL	TEST
10000003	28/12/2024 14:05	28/12/2024 17:00	active	TRLKT01	20	95	TEST2

The reservations are displayed in a simple table to the top left of the screen showing all airspace reservations in Finland. The table is automatically updated without the need for any page refreshes.

The background of the status field is automatically changed to match the reservation's current status:

- Status **RESERVED**
- Status **PENDING**
- Status **ACTIVE**
- Status **CANCELLED**

4.1 GANTT CHART



To open the **Gantt Chart**, click on the "Chart" title text on the top of the page.

The Gantt Chart is used for the visualisation of reservations in the LARA Web Client. Areas are represented by rows in the chart and reservations are placed on the chart as rectangular slots at the times they are for.

The time range visible in the chart is displayed on the timescale at the top of the chart.

5. ACTIONS DISPLAY

Airspace	Lower	Upper	Start Date	End Date	Status
TSAH02, TSAH03, TSAH05, TSAH06, TSAH07, TSAH08, TSAH10, TSAH12, TSAH13	30	UNL	28/12/2024 16:00	28/12/2024 19:00	reserved

The actions table displays all actions relevant to the user logged in and is updated automatically without the need for a page refresh. To perform an action, click on the

row in the table to open the **Reservation Editor** and then click on the button for that action at the bottom of the editor.

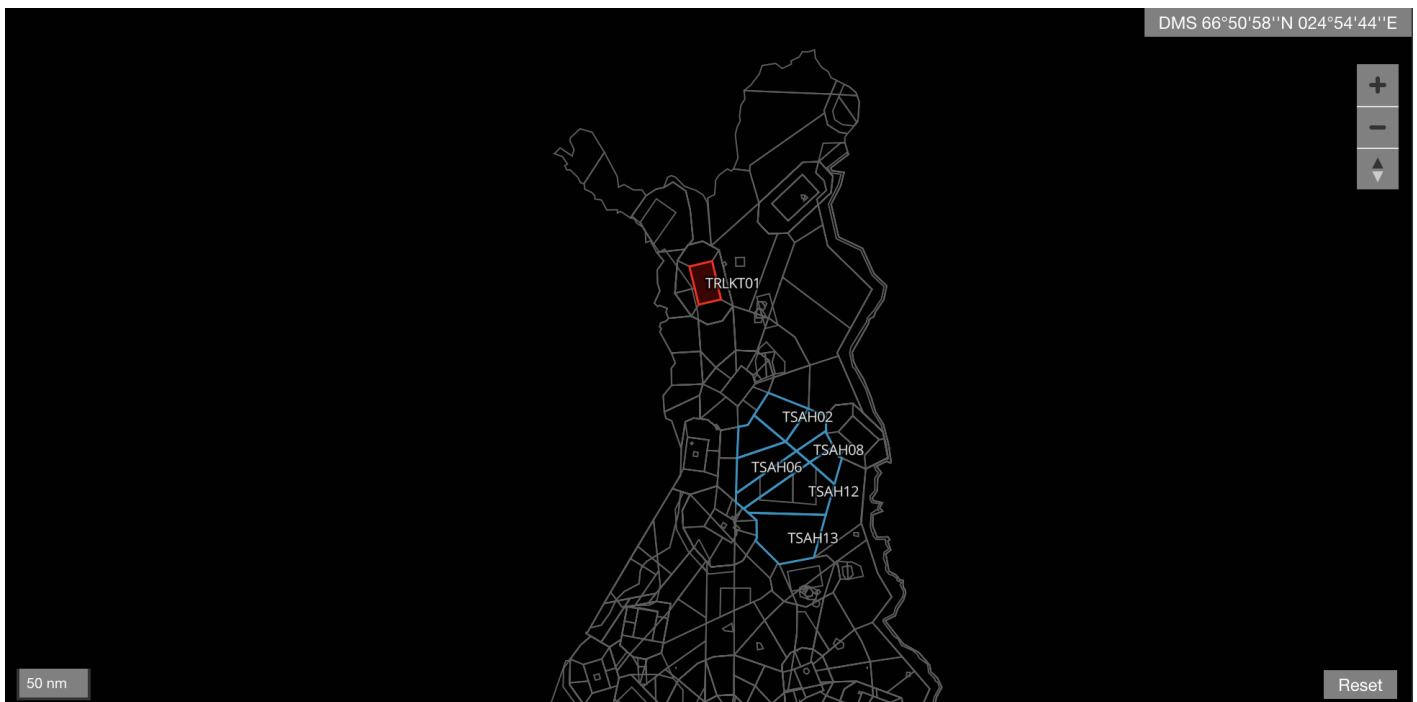
Pilots and organizations will only see their own reservations listed in the **Actions Display**. Pilots can edit their reservations up to 30 minutes prior start-time. After that the reservation will go to "Pending" state and only AMC/ATC can make modifications to the reservation.

The background of each row is automatically changed to match the reservation's current status:

- Status **RESERVED** (reservation can be edited by pilot)
- Status **PENDING** (from here on reservation can only be edited by AMC/ATC)
- Status **ACTIVE**
- Status **CANCELLED**

If the **ACTIVE** reservation is ending in less than 10 minutes, the **End Date** field will begin flashing red. If the activity is still ongoing in the reserved area, remember to contact ATC to extend the reservation time. Otherwise the reservation will be automatically **CANCELLED** once the **End Date** is reached.

6. MAP DISPLAY



The map displays boundaries for all reservable airspace blocks in Finland. Additionally the map displays the airspace reservations with the following color coding:

- Status **RESERVED** (blue outline)
- Status **PENDING** (orange outline)
- Status **ACTIVE** (red fill)
- Cancelled reservations are not shown on the map

The map works like any other browser-based map which can be navigated by clicking and dragging the map, and zooming in and out by double-clicking or using the mouse-wheel.

7. RESERVATION EDITOR

The **Reservation Editor** is a form which allows users to view, create, edit reservations as well as perform actions such as approving and cancelling reservations.


To open the Reservation Editor, click on a table row in **Actions Display**, or click on the **Add reservation** -button in the top-menu to start creating a new reservation.


Create only a reservation if intending to use the airspace. The reservations will be visible to ATC in real time.


Pilots can edit their reservations up to 30 minutes prior reservation start time.

7.1 BASIC SECTION

Basic

Creator 

POC 

 Your VATSIM CID will be shared with other VATSIM users

Callsigns

The basic section of the reservation editor contains fields for displaying and setting the creator, point of contact, and callsigns associated with the reservation editor.

The user creating the reservation is always in charge of the reservation and will be the Point of Contact for AMC/ATC if coordination or changes to the reservation needs to be made.

The callsign editor is a special form field with aids to help create and remove callsigns. To add a callsign, type the callsign and either click somewhere outside of the callsign field, if finished editing, or type a comma (,) to add a callsign and continue editing.

To remove a callsign, click on the x next to the callsign to remove.

7.2 ACTIVITY SECTION

Activity		
Booking Type	Responsible Agency	Permeability ?
Temporary Training Area	Military	Non Permeable
Activity Type	Priority	Number of Aircraft
Military Activity	99	8

The activity section allows for the configuration of booking type, responsible agency, permeability/segregation, activity type, priority, and number of aircraft. All form fields work as with forms outside of V-LARA. To quickly set the priority or number of aircraft, the value can also be typed into the field.

7.3 TIME SECTION

Time			
Start	Time UTC	End	Time UTC
24/07/2025	09:30	24/07/2025	12:00
Before Buffer	After Buffer		
00:00	00:00		

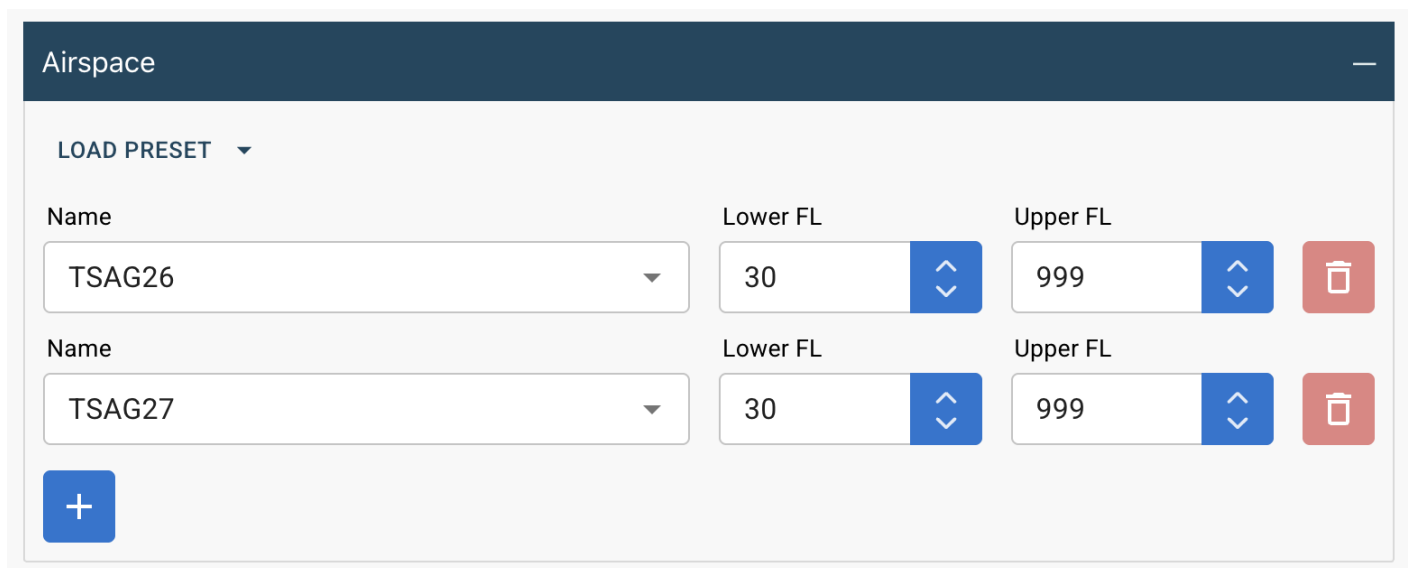
The time section of the form allows for the configuration of the start and end times of a reservation. To edit these fields, click the button next to the field and use the calendar or time pickers to choose the time. It is also possible to type the desired values directly into the text boxes, but they must use the same format as use to display the value.

The time values are in UTC timezone.

The following rules are checked automatically when validating the Start- and End Time by the system:

- No overlapping reservation times using the same airspace blocks
- Start time must be at least 30 minutes from now
- Minimum reservation endurance is 30 minutes
- Maximum reservation endurance is 8 hours
- Reservation cannot be made more than 7 days in advance

7.4 AIRSPACE SECTION



The screenshot shows a section titled "Airspace" with a "LOAD PRESET" dropdown menu. Below this, there are two rows of configuration fields. Each row has a "Name" dropdown menu, a "Lower FL" field with a blue up/down arrow button, and an "Upper FL" field with a blue up/down arrow button and a red trash icon. The first row has "TSAG26" in the Name field, "30" in the Lower FL field, and "999" in the Upper FL field. The second row has "TSAG27" in the Name field, "30" in the Lower FL field, and "999" in the Upper FL field. A blue plus button is located at the bottom left of the section.

The airspace section allows for the configuration of the areas in a reservation. To configure an area, select the name from the dropdown and configure the level values. The level value fields can also be typed directly in the field.

Always Flight Levels when adding a Lower or Upper value. Use in the Lower-field to indicate SFC (surface). Use in the Upper-field to indicate UNL (unlimited).

To add another area to the reservation, click the plus (+) button to add a new row and configure the same fields. To remove an added row, click the red button alongside the row.

Pilots shall check the area specifications from [Finland AIP](#) prior reservation. There might be listed important Remarks or Flight Level limitations. AMC/ATC has the possibility to modify the reservation if required (e.g. due other traffic).

- [ENR 5.2 MILITARY EXERCISE AND TRAINING AREAS](#)
- [ENR 6 ENROUTE AND INDEX CHARTS](#)
- [LOCAL TRA CHARTS](#)
- [AIRSPACE MANAGEMENT \(ASM\) OPERATIONS MANUAL](#)
 - Includes a map of Defence Forces priority areas and TRAs over international waters.

7.5 REMARKS SECTION



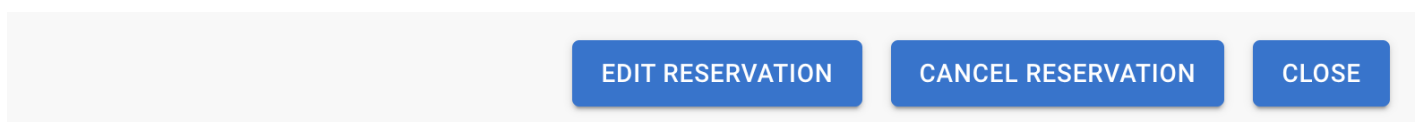
Remarks

Add Remark

SPECIAL EVENT

The remarks section contains the remarks for a reservation. To add a remark, type into the `Add remark` field. When submitting the reservation, the remark will be added to the reservation.

7.6 ACTION BUTTONS



EDIT RESERVATION CANCEL RESERVATION CLOSE

Depending on the user role and the status of the reservation, different `Action Buttons` may be shown.

- EDIT RESERVATION - this button will confirm the changes and publish the edited reservation
- CANCEL RESERVATION - this button will prompt the user to give a `Cancellation Reason`. The reason must be at least 3 characters long. After giving the reason, user can confirm the cancellation.
- CLOSE - this button will close the `Reservation Editor`. Changes will not be saved.

7.7 VALIDATION

The Reservation Editor checks for the following validations before allowing a reservation to be submitted:

1. All fields except Remarks are required.
2. Reservation must be made at least 30 minutes in advance.
3. Check end time. Minimum reservation length is 30 minutes.
4. Start time must be before end time.
5. Reservation length cannot be more than 8 hours.
6. Reservation can be booked earliest 7 days in advance.

Basic Use Case - Finland

<https://www.youtube.com/embed/DexCMQK1r7Q>

Review the Procedures

Familiarize yourself with the Local TRA, TRA and TSA areas and the flight procedures related to training area flights in Finland.

Add your reservation to V-LARA

Once you have chosen your training area including the upper and lower limits, go ahead and make a new reservation in V-LARA at least 30 minutes before your flight. Double check the content before submitting the reservation.

Make a Flight Plan

Generate a Flight Plan with the correct information in order for ATC to know what you are going to do. For local TRA flights, use the XXTA code in the route section (replace XX with the last two characters of the airport ICAO code). For TSA flights, please check Military Procedures (links are listed below)

Editing and Cancelling Reservations

Pilots can edit their reservation until 30 minutes before the reservation starts. After that, only ATC is able to make changes to your reservation.

Please cancel the reservation if you are not intending to use the airspace. ATC will normally cancel your reservation once the activity in your reserved area has ended.

Useful Links & Phraseology - Finland

A. LOCAL TRA AND TRA FLIGHTS

Flight Plan content

- The general IFR training area code XXTA is inserted to the Route for Local Training area flights
 - for example `JYTA` (the code for Jyväskylä training area)
- You may insert your Training Area request to the RMK field
 - for example `RMK/TRAJY04`

See Local TRA areas for each Aerodrome: <https://www.ais.fi/localtra/localtra.htm>

Phraseology

☐ ATC phrases:

O-BC, cleared training area 72 and 73, upper limit 8000 feet

O-BC, selvä harjoitusalue 72 ja 73, yläraja 8000 jalkaa

O-BC, maintain 3000 feet or below until training area

O-BC, säilytä 3000 jalkaa tai alapuolella kunnes harjoitusalueella

Example of clearance to TRA area:



Tower, T21, apron M request taxi and clearance to Training Area, information Mike
Torni, T21, asematasolla M, pyydän rullata ja selvitystä harjoitusalueelle, tiedotus Mike



T21, tower, cleared to training area G11, maintain 5000 feet or below until training area
T21, torni, selvä harjoitusalueelle G11, säilytä 5000 jalkaa tai alapuolella kunnes harjoitusalueella



Cleared to training area G11, maintain 5000 feet or below until training area, T21
Selvä harjoitusalueelle G11, säilytän 5000 jalkaa tai alapuolella kunnes harjoitusalueella, T21

- - - - -



T21, wind 300 degrees, 4 knots, runway 24 cleared for takeoff, right turn
T21, tuuli 300 astetta, 4 solmua, kiitotie 24 selvä lentoonlähtöön, oikea kaartto



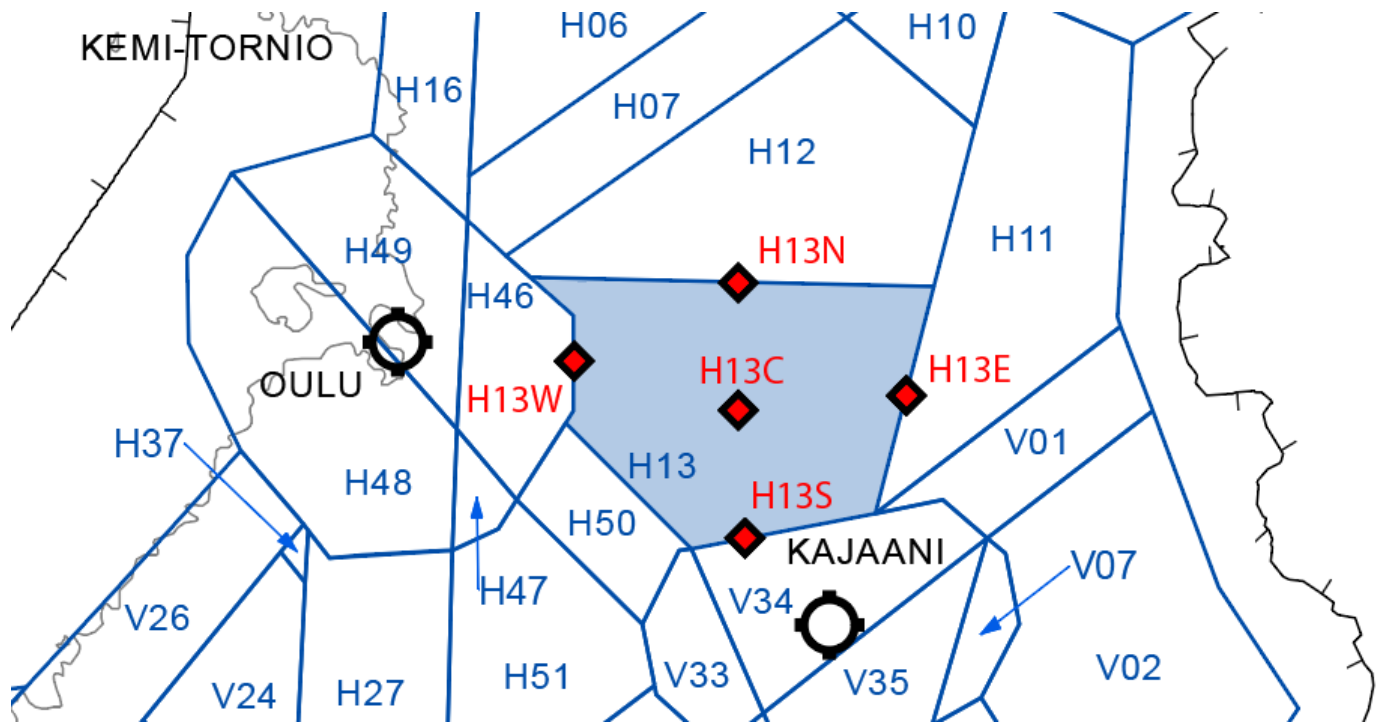
Cleared for takeoff, right turn, T21
Selvä lentoonlähtöön, oikea kaartto, T21

B. MILITARY FLIGHTS TO TSA AREAS

Flight Plan content

- Use tactical points instead of the area name in the Flight Plan route
 - for example `C/H13C/N0440F230F250` (area TSAH51, point is located in the center of the TSA area, requested flight level block 230-250)

Tactical points are not defined in the charts. The points are based on coordinates located on the respective TSA area.



- W = WEST
- N = NORTH
- S = SOUTH
- E = EAST
- C = CENTER

When choosing your TSA area, pilots are requested to use the Defense Force primary TSA areas. More information here:

- [ASM Operations Manual version 2.3](#) (map on page 16)
- [Principles governing the use of airspace by the Finnish defence forces](#)

Area groups **SAVU, RUKA, MERI, KIURU, KOLI, KIUKO, POKA, HAKA, KAIRA, KURU, SAIMA and PIPO** are available in V-LARA! Please check the remarks and area limitations in the links above.

Area groups **ITÄKAIRA, CENTRAL FINLAND and OSTROBOTHNIA** are not reservable in V-LARA.

- Block altitudes or flight levels are usually used in formation flights

- DO NOT include tactical or military Remarks in the ATC Flight Plan, as civil ATC is not responsible for military traffic within TSA areas. Aircraft registrations and other data not relevant for civil ATC may be omitted.
 - Add only necessary information such as `RMK/TSAH13 OK` or `FOR/MASTER1+MASTER2` for formation flights in the FPL remarks section.

3 MESSAGE TYPE	7 AIRCRAFT IDENTIFICATION	8 FLIGHT RULES	TYPE OF FLIGHT
<=(FPL	- R, O, O, K, I, E, 1	- I	- M <=
9 NUMBER	TYPE OF AIRCRAFT	WAKE TURBULENCE CAT.	10 EQUIPMENT
- 3	H, A, W, K	/ M	- SDFZ <=
13 DEPARTURE AERODROME	TIME		/ C
- E, F, O, U	1, 5, 3, 0		<=
15 CRUISING SPEED	LEVEL	ROUTE	
- N, 0, 4, 4, 0	A, 2, 3, 0	C/H51C/N0440A230A250	
16 DESTINATION AERODROME	TOTAL EET	ALTN AERODROME	2ND ALTN AERODROME
E, F, O, U	HR MIN 0, 2, 4, 0		<=
18 OTHER INFORMATION			
- NAV/RNAVX COM/EXM833 DOF/241229 RMK/TSAH51 OK OAT FOR ROOKIE1+ROOKIE2+ROOKIE3 DOF/241229			

Phraseology

Military aircraft may start-up and taxi without taxi instructions on military aprons. Departing aircraft will receive the Runway Holding Point from ATC. Arriving aircraft will be instructed to "taxi to apron".

SSR codes are given to every aircraft in formation.



Oulu tower, MASTER 1, two-ship, taxiing to holding point M, departure in standard formation, information A, QNH 1013

Oulun torni, MASTER 1, kahdella, rullaan odotukseen M, lähtö tiiviissä osastossa, tiedotus A, QNH 1013



MASTER 1, Oulu tower, cross runway from M to B, taxi to holding point A runway 12, clearance available

MASTER 1, Oulun torni, ylitä kiitotie M kautta, rullaa odotukseen A kiitotie 12, selvitys saatavilla



Cross runway from M to B, taxiing to holding point A, ready to copy, MASTER 1

Ylitän kiitotien M kautta ja rullaan odotukseen A, valmiina kopioimaan, MASTER1



MASTER 1, cleared to point H51C, climb to block 11 thousand to 12 thousand feet, QNH 1013, squawk 3411

MASTER 1, selvä pisteelle H51C, nouse korkeusalueelle 11 tuhatta, 12 tuhatta jalkaa, QNH 1013, koodaa 3411



Cleared to point H51C, climb to block 11 thousand to 12 thousand feet, QNH 1013, squawk 3411, MASTER 1

Selvä pisteelle H51C, nousen korkeusalueelle 11 tuhatta, 12 tuhatta jalkaa, QNH 1013, koodaan 3411, MASTER 1



MASTER 2, squawk 3412

MASTER 2, koodaa 3412



Squawk 3412, MASTER 2

Koodaan 3412, MASTER 2



MASTER 1, clearance correct

MASTER 1, selvitys oikein



MASTER 1

MASTER 1