

ICAO 9625 App

Simplifying the FCS (FSTD Capability Signature)





SIM OPS ICAO 9625 Calculator – User Guide

03/12/2020



Using the App

1. Login and main pages

Home Screen



1. On welcome page select Login







Login page



1. Either login with email and password if already registered

Or

2. Register a new account for first time use

Links are also available to reset password if forgotten and to change password





Main index – page features

SIM OPS SOLUTIONS

After login, the app will automatically default to the My Training/Training Setup page with all fields cleared.

- The tool bar at the bottom of every screen enables switching between the 5 main pages of the app...
- My Training
- My Simulator
- FSTD Summary
- Glossary
- About

rianing Setur Training Setur Setur FCS by Regulatory Basis and Training Type Use My Simulator Setur (Setur Differs from My Simulator) Please Tap to Select (Licensing/Training Type) Simulator Information Default FCS FSTD Type Training Tasks Based on Default FCS Build Unique FCS Select Training Tasks - Select Training Task - Select Task - Select Training Task - Select Ta	13:40 Tue 3 Nov	२ १९%
Setup FCS by Regulatory Basis and Training Type Use My Simulator Setup (Setup Differs from My Simulator) Please Tap to Select (Licensing/Training Type) Simulator Information Default FCS FSTD Type Training Tasks Based on Default FCS Build Unique FCS Solution	Training Setup	• 55/1
<text><text><text><text></text></text></text></text>	Setup FCS by Regulatory Basis and Training Type	
<text></text>	Use My Simulator Setup (Setup Diffe	rs from My Simulator)
Simulator Information Default FCS FSTD Type Training Tasks Based on Default FCS Build Unique FCS Select Training Tasks > Select Tasks	Please Tap to Select (Licensing/Training Type)	
<text><text><text><text><text><text></text></text></text></text></text></text>	Simulator Information	
FSTD Type Custom Training Tasks Based on Default FCS Siew Training Tasks > Build Unique FCS Select Training Tasks > Contraction of the select Training Tasks > Select Training Tasks > Contraction of the select Training Tasks >	Default FCS	N.N.R.N : N.N.N : N.N.N >
	FSTD Type	Custom
Build Onique FCS Select Haining Tasks > State of the provide FCS Select Haining Tasks > State of the provide FCS Select Haining Tasks > State of the provide FCS Select Haining Tasks > State of the provide FCS Select Haining Tasks > State of the provide FCS Select Haining Tasks > State of the provide FCS Select Haining Tasks > State of the provide FCS Select Haining Tasks > State of the provide FCS Select Haining Tasks > State of the provide FCS Select Haining Tasks > State of the provide FCS Select Haining Tasks > State of the provide FCS Select Haining Tasks >	Training Tasks Based on Default FCS	View Training Tasks >
My Training My Simulator FSTD Summary I Glossary (j) About	SIM	OBPS
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Using the App

2. Determine FCS Based on Training needs

My Training/Training Setup - page features



1. Enables selection of ...

- Licensing/Training Type
- Training(T) or Training to Proficiency(TP)
- 2. Simulator Information panel ...
 - displays *Default FCS* for training/license type selected
 - displays FSTD Type corresponding to the Default FCS
 - Types I to VII or Custom as applicable
 - displays option to view all *Training Tasks Based on Default FCS*
 - displays option to *Build Unique FCS* based on selecting only specific training tasks

13:40 Tue 3 Nov		२ 99% 🕖
	Training Setup	
Setup FCS by Regulatory Basis and Training Type		
Use My Simulator Se	tup (Setup Differs from My Simulator)	
Please Tap to Select		
(Licensing/Training Type)		
Simulator Information		
Default FCS		N.N.N.R.N : N.N.N : N.N.N.N >
FSTD Type		Custom
Iraining Tasks Based on Default FCS		View Training Tasks >
SOL	UTIONS	
	FSTD Summary	

My Training/Training Setup - Example MPL1(T)

- 1. Select the regulatory basis from the list 1 available:-
 - ALL
 - FAA
 - *ICAO*
 - MISC

2. EXAMPLE:

Let's select MPL1 (T)

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Note there is no TP for MPL1 as this is achieved in the aircraft usually

4:00 Tue 3 Nov			 * ຈ 100% 💽
< Training Setup	Licens	ing/Training Type Selection	
Select Regulatory Basis			FAA / ICAO / MISC >
ſ.			
MPL1 (T)			ICAO
Multi-crew Pilot License - Ph	ase 1, Core flying skills		Training only
MPL2 (T)			ICAO / MISC
Multi-crew Pilot License - Ph	ase 2, Basic		Training only
MPL2 (TP)	and O. Dania		ICAO / MISC
Multi-crew Pilot License - Ph	ase Z, Basic		Iraining to Proficiency
MPL3 (T)			
Multi-crew Pilot License - Ph	ase 3, Intermediate		Training only
MPL3 (TP)			ICAO
Multi-crew Pilot License - Ph	ase 3, Intermediate		Training to Proficiency
MDI 4 (T)			



My Training/Training Setup - *Example MPL1(T)*

1. MPL1 (T) is selected

- ICAO
- Training only

2. Simulator Information panel ...

- Shows *Default FCS* required for MPL1(T)
 - R.R.R.R.R1: G.G.N: G.**S**.G.G
- Shows FSTD Type
 - Type I

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3. Select *View Training Tasks* to see all related training tasks based on the default FCS for ICAO/MPL1 (T)

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Training Setup	
Setup FCS by Regulatory Basis and Training Type	
Use My Simulator Setup (Setup Diffe	rs from My Simulator)
MPL1 (T)	
Multi-crew Pilot License - Phase 1, Core flying skills	Iraining only
Simulator Information	
Default FCS	R.R.R.R1: G.G.N: G.S.G.G >
FSTD Type	Туре І
Training Tasks Based on Default FCS	View Training Tasks > 🧹
Build Unique FCS	Select Training Tasks >
	Ō
SOLUTIO	
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My Training/Training Setup/Sim. Available Training - *Example MPL1(T)*

- 1. ICAO MPL1 (T) is selected and ...
 - Shows the rolled up *Default FCS* required for *MPL1(T*) for all training tasks
 - R.R.R.R.R1: G.G.N: G.<mark>S</mark>.G.G
 - Shows FSTD Type
 - Type I
- 2. All MPL1 (T) tasks shown (35 Tasks), as a scrollable list in black, with the individual FCS for each task indicated
- Now, select the ">" at the end of the *Default FCS* to view the FCS high level requirements

14:33 Mon 30 Nov	중 100%	
C Training Setup Sim. Available Training		
MPL1 (T)	ICAO	
Multi-crew Pilot License - Phase 1, Core flying skills	Training only	
Default FCS	R.R.R.R.R1:G.G.N:G. <mark>S</mark> .G.G>	m
FSTD Type	Туре І	
2 35 Tasks		
ICAO - 2 Perform Aircraft Ground and Pre-Flight Operations		
2.3 Perform pre-flight checks and cockpit preparation	R.R.R.R.R1 : G.G.N : G.N.G.G	
2.4 Perform engine start	R.R.R.R.R1 : G.G.N : G.N.G.G	
2.5 Perform taxi out	R.R.R.R.R1 : G.G.N : G.N.G.G	
2.6 Manage abnormal and emergency situations	R.R.R.R.R1 : G.G.N : G.N.G.G	
ICAO - 3 Perform Take-off		
3.1 Perform pre-take-off and pre-departure preparation	R.R.R.R.R1 : G.G.N : G.N.G.G	
3.2 Perform take-off roll	R.R.R.R.R1 : G.G.N : G.N.G.G	
3.3 Perform transition to instrument flight rules	R.R.R.R.R1 : G.G.N : G.N.G.G	
3.4 Perform initial climb to flap retraction altitude	R.R.N.R.R1 : G.G.N : G.N.G.G	
My Simulator FSTD Summary Glossar	y (j) About	

SIM

My Training/Training Setup/Simulator FCS Description - *Example MPL1(T)*

- 1. Shows the "rolled up" *Default FCS* required for MPL1(T) for all training tasks
 - R.R.R.R.R1: G.G.N: G.S.G.G

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- 2. Shows the FCS high level requirements for each of the 12 FSTD features and associated fidelity level as per the Default FCS displayed at top of page.
 - As per ICAO 9625 Part III Appendix A
 - Swipe down the page to see all features

4:45 Mon 30 Nov				奈 100% 🗲)·
〈 Sim. Available Training	Sir	mulator FCS Description			
	R.R.R.	R.R1 : G.G.N : G. <mark>S</mark> .G.C	3		
Flight Deck Layout and Struct	ure			Representative	
An enclosed or perceived to be enclose aeroplane derived from, and appropriat	ed flight deck, exclu e to class, to supp	uding distraction, which will n ort the approved use.	epresent that of the		
Flight Model (Aero and Engine	e)			Representative	
Aerodynamic, engine and ground react support the approved use.	ion modelling, aerc	pplane-like, derived from and	appropriate to class to		
Flight dynamics model that accounts for corresponding to actual flight condition drag, altitude, temperature.	or various combinat ns, including the eff	tions of drag and thrust norm fect of change in aeroplane a	ally encountered in flight ttitude, sideslip, thrust,		e
Ground Handling				Representative	
Represents ground reaction and handlin	ng, aeroplane-like,	derived from and appropriate	e to class.		
Aeroplane Systems				Representative	
Aeroplane systems should be replicated approved use.	d with sufficient fu	nctionality for flight crew ope	ration to support the		
System functionality should enable suff procedures to be accomplished.	ficient normal and	appropriate abnormal and em	nergency operating		
Flight Controls and Forces				Representative-1	
Aeroplane-like, derived from class, app	ropriate to aeropla	ne mass to support the appro	oved use.		
My Training	My Simulator	FSTD Summary	Glossary	(j) About	





Using the App

3. Determine Training Capabilities Based upon FCS

My Simulator/ My Simulator Features - Page Features

This page enables you to enter a unique FCS and find the applicable Training Tasks.

This can be done in 3 different ways, either:-

- 1. Select Use My Training Set Up
 - Copies FCS from My Training page
- 2. Select *Custom*
 - Displays License/Training Type list
- 3. Input unique FCS directly...
 - Select each FSTD feature in turn in the list below
 - Select the level of fidelity for the feature that the FSTD has or will have
- Training Tasks applicable to the FCS can then be viewed by selecting View Lists>

My Simulator Features	· · · · · · · · · · · · · · · · · · ·
Setup FCS by Regulatory Basis and Training Type	
Use My Training Setup (Setup Differs f	rom My Training)
Custom (Tap to Select)	
Simulator Information	
FCS	N.N.N.R.N : N.N.N : N.N.N.>
FSTD Type	Custom
Training Tasks	View Lists >
Flight Deck Layout and Structure	None
Flight Model (Aero and Engine)	None
Ground Handling	None
Aeroplane Systems	Representative
Flight Controls and Forces	None
Sound Cues	None
Visual Cues	None



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My Simulator/ My Simulator Features - *Example Type VII*

<u>Example –</u>

- 1. Input FCS for Type VII device ...
- S.S.S.S.S : R.S.R : S.S.R.R
- *FSTD Type* is now *VII* as FCS corresponds to defined ICAO FSTD type.

2. Now select "*View Lists*" in Simulator Information pane.

My Simulator Features Setup FCS by Regulatory Basis and Training Type Use My Training Setup (Setup Differs from My Training) MPL4 (T) Multi-crew Pilot License - Phase 4, Advanced Simulator Information	
Setup FCS by Regulatory Basis and Training Type Use My Training Setup (Setup Differs from My Training) MPL4 (T) Multi-crew Pilot License - Phase 4, Advanced Simulator Information	
Use My Training Setup (Setup Differs from My Training) MPL4 (T) Multi-crew Pilot License - Phase 4, Advanced Simulator Information	
MPL4 (T) Multi-crew Pilot License - Phase 4, Advanced Simulator Information	
Multi-crew Pilot License - Phase 4, Advanced Training c	
Simulator Information	only
Simulator Information	
FCS S.S.S.S.S R.S.R : S.S.	R.R >
FSTD Type Typ	be VII
Training Tasks View Li	sts >
Flight Deck Layout and Structure Specific	
Flight Model (Aero and Engine) Specific	
Ground Handling Specific	
Aeroplane Systems Specific	
Flight Controls and Forces Specific	
Sound Cues Representati	ve
Visual Cues Specific	
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SIM



My Simulator/ My Simulator Features/Simulator Task View - *Example Type VII*

The *Simulator Task View* pane appears showing:

- 1. FSTD (Type VII) and the relevant FCS
 - S.S.S.S.S : R.S.R : S.S.R.R
- 2. A scrollable list of all the training tasks that can be achieved with this FCS
 - As per ICAO 9625 Vol 1 Part I

Now let's see what happens if we don't have a standard FSTD Type but instead have a custom FCS instead....

09:18 Sun 29 Nov				? 98% 🗩
K My Simulator Features		Simulator Task View		
FSTD (Type VII)			S.S.S	.S.S : R.S.R : S.S.R.R >
F AA				
IR-Training only				30 of 30 Tasks >
PPL-Training only				36 of 37 lasks >
CPL-Training only				4/ of 4/ lasks >
TR-Training only				114 OF 114 Tasks >
OD Training to Proficiency				
CR-Training only				31 of 31 Tasks >
RL-Training only				
RL-Training to Proficiency				
RO-Training only				106 of 106 Tacks >
CO Training to Proficiency				
				112 of 112 Tasks >
				106 of 106 Tasks >
ATPL-Training to Proficiency				114 of 114 Tasks >
ATPL-Training to Proficiency				106 of 106 Tasks >
MPL1-Training only				35 of 35 lasks >
MPL2-Training only				51 of 51 lasks >
MPL2-Training to Proficiency				51 of 51 lasks >
MPL3-Training only				50 of 50 Tasks >
MPL3-Training to Proticiency				50 OF 50 Tasks >
MPL4-Training only				51 01 51 185KS >
IR-Training only				32 of 32 Tasks >
		e		
My Training	My Simulator	FSTD Summary	Glossary	(İ) About



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My Simulator/ My Simulator Features - Example Custom Type

<u>Example –</u>

- Now change FSTD feature *Flight Controls* and Forces to "R" instead of "S" fidelity level...
 - S.S.S.S.R : R.S.R : S.S.R.R
 - FSTD Type is now Custom as FCS does not correspond to a defined ICAO FSTD type.
- 2. Now select "*View Lists*" in Simulator Information pane.

I3:13 TUE T DEC		Simulator Features		≈ 81% (≠).
Setup FCS by Regulatory Basis and	d Training Type			
	Use My Training Setu	ıp (Setup Differs from N	/ly Training)	
Custom (Tap to Select)				
Simulator Information				
FCS			S.S.S	S.S.R : R.S.R : S.S.R.R >
FSTD Type				Custom
Training Tasks				View Lists >
Flight Deck Layout and Structure				Specific
Flight Model (Aero and Engine)				Specific
Ground Handling				Specific
Aeroplane Systems				Specific
Flight Controls and Forces				Representative
Sound Cues				Representative
				Specific
Visual Cues				



My Simulator/ My Simulator Features/ Sim. Available Training - Example Custom Type

The *Simulator Task View* pane appears showing:

- 1. FSTD (Custom) and the relevant FCS
 - S.S.S.S.R : R.S.R : S.S.R.R
- 2. A scrollable list of all the training tasks for the various license types that can be achieved with this custom FCS
 - As per ICAO 9625 Vol 1 Part I
- 3. Look at *TR Training only*
 - With this Custom FCS only 3 of 114 tasks are possible
- 4. Select "*3 of 114 Tasks>*"

16:25 Tue 1 Dec			중 100%
✓ My Simulator Features	Simulator Task View		
FSTD (Custom)		S.S.S	.S.R : R.S.R : S.S.R.R >
FAA			
			20 of 20 Tacks >
PPL-Training only			30 01 30 Tasks >
			47 of 47 Tasks >
			3 of 11/1 Tasks >
TR-Training to Proficiency			1 of 106 Tasks >
CR-Training only			31 of 31 Tasks >
RI -Training only			3 of 114 Tasks >
RI -Training to Proficiency			1 of 106 Tasks >
RO-Training only			3 of 114 Tasks >
RO-Training to Proficiency			1 of 106 Tasks >
CQ-Training to Proficiency			1 of 106 Tasks >
IO-Training only			3 of 113 Tasks >
IO-Training to Proficiency			1 of 106 Tasks >
ATPL-Training only			3 of 114 Tasks >
ATPL-Training to Proficiency			1 of 106 Tasks >
ICAO			
MPL1-Training only			35 of 35 Tasks >
MPL2-Training only			51 of 51 Tasks >
MPL2-Training to Proficiency			51 of 51 Tasks >
MPL3-Training only			50 of 50 Tasks >
MPL3-Training to Proficiency			50 of 50 Tasks >
MPL4-Training only			2 of 51 Tasks >
MPL4-Training to Proficiency			2 of 51 Tasks >
IR-Training only			32 of 32 Tasks >
My Training			(i) About



My Simulator/ My Simulator Features/ Sim. Available Training - Example Custom Type

The *Sim. Available Training* pane appears showing:

- 1. Training type is TR(T) FAA Training only
- 2. Default FCS and FSTD Type still shown
 - S.S.S.S.R : R.S.R : S.S.R.R
 - FSTD Type is now Custom as FCS does not correspond to a defined ICAO FSTD type.
- 3. Only "3 of 114 Tasks" are possible
- 4. All tasks are shown in scrollable list
- Tasks in red cannot be achieved with this custom FCS
 - As flight controls fidelity is R and not S
- Only tasks in black can be achieved with this custom FCS

16:28 Tue 1 Dec				奈 100% 🛃
✔ Simulator Task View		Sim. Available Training		
TR (T) Type Rating				FAA Training only
Default FCS FSTD Type				S.S.S.S.R : R.S.R : S.S.R.R > Custom
FAA - 2.0 Preflight Procedures	3	3 / 114 Tasks		
2.2 Flight deck inspection				S.N.R.S.S : R.N.N : N.S.G.N
2.5 Navigation system setup				S.N.R.S.S : R.N.N : N.S.G.N
FAA - 3.0 Ground Operations				
3.1.1 Engine start - Normal				S.S.R.S.S : R.N.N : G.S.R.N
3.1.2 Engine start - Non-normal				S.S.R.S.S : R.N.N : G.S.R.N
3.2 Pushback or powerback				S.S.S.S.S : R.R.N : G.S.R.R
3.3 Taxi				S.S.S.S.S : R.R.N : G.S.R.R
3.4 Pre-takeoff procedures				S.S.S.S.S : R.R.N : G.S.R.R
3.5 After Landing				S.S.S.S.S : R.R.N : G.S.R.R
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Using the App

4. Other pages

FSTD Summary Page



This page is a static scroll down page and shows...

- The FSTD summary matrix from ICAO 9625 Ed4
- Applicable notes and comments for special cases regarding:
 - Type I
 - CPL and PPL VFR requirements
 - Type VI
 - Motion requirements
 - Environment ATC
 - applicability

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					FS	TD Su	nmary	/							
		ng Only (T) or ng to Proficiency (TP)	Flight Deck Layout and Structure	Flight Model (Aero and Engine)	Ground Handling	Aeroplane System	Flight Controls and Force	Sound Cue	Visual Cue	Motion Cue	Environment - ATC	Environment - Navigation	Environment - Atmosphere and Weather	Environment - Aerodromes and Terrain	
Device Type	Licence or Type of Training	Trainir Trainir	Device Features												
	MPL4 - Advanced	T+TF	> S	S	S	S	S	R	S	R	S	S	R	R	
Type VII	TR/ATPL	TP	S	S	S	S	S	R	S	R	S	S	R	R	
Type vii	Re	Т	S	S	S	S	S	R	S	R	Ν	S	R	R	
	RL/RO/IO/CQ	TP	S	S	S	S	S	R	S	R	S	S	R	R	
Type VI	MPL3 - Intermediate	T+TF	R	R	R	R	R	R	S	R1	S	S	R	R	
Type V	TR/ATPL/RL/RO/IO	т	S	S	S	S	S	R	R	Ν	G	S	R	R	
Type IV	MPL2 - Basic	T+TF	P R	G	G	R	G	R	G	Ν	G	S	G	R	
Type III	CR	Т	R	R	R	R	R	G	R	Ν	R	S	G	G	
Type II	IR	Т	G	G	G	R	G	G	G	Ν	G	S	G	G	
	CPL	Т	R	R	R	R	R	G	R	Ν	R	S	G	G(S)	
	۲ My Training														

Glossary Page

SIM OPS SOLUTIONS

Abbreviations and definitions.

This page is scrollable

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		Glossary
ATPL	-	Airline Transport Pilot Licence or Certificate
CPL	-	Commercial Pilot Licence
CQ	-	Continuing Qualification
CR	-	Class Rating
FAA	-	Federal Aviation Administration
FCS	-	(F)STD (C)apability (S)ignature is defined as the levels of fidelity of the applicable FSTD simulation features required to support the training tasks associated with the intended pilot licensing, qualification, rating or training types as defined in the
FSTD	-	Flight Simulation Training Device
ICAO	-	International Civil Aviation Organisation
ю	-	Initial Operator
IR	-	Initial Instrument Rating
MPL1	-	Multi-crew Pilot License - Phase 1, Core flying skills
MPL2	-	Multi-crew Pilot License - Phase 2, Basic
MPL3	-	Multi-crew Pilot License - Phase 3, Intermediate
MPL4	-	Multi-crew Pilot License - Phase 4, Advanced
PPL	-	Private Pilot License
Re	-	Recency (Take-off and Landing)
		My Training I My Simulator FSTD Summary Glossary (j) About

About Page



This is a static page containing...

- Version description information
- Link to access SIM OPS website
- *Logout* button.
 - Selecting this will log out the user and clear all selections

13.40 Tue 3 Nov				중 100%
		About		
	SI		S	
SIM OPS ICAO 9625 (Edition 4) Sim Version 1.10 (Build 136) For all your flight simulation operat	ulator FCS Calcula	tor YOUR NEEDS		
	visit SIM O	PS online (www.sim-ops.cor	m)	
		Logout		
App Built by Flanker Technologies c2020				



iPhone screenshots



Functionality is same on iPhone but the app is more easily viewed on iPad size display.



Additional features are planned for 2021

- 9625 Vol II (Rotary wing)
- Objective tests
- EASA CS FSTD A issue 3

But in the meantime....

If you need support or have any questions or feedback to share then please email them to..

app@sim-ops.com





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