

# MILITARY SIMULATOR CENSUS 2019

in association with





## A data-driven training system to provide real-time insights and standardized evaluations for continuous military pilot training improvement.

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CAE Rise provides the ability to deliver standardized training and objectively assess pilot competencies using live data during training sessions. CAE Rise fosters student-centric learning, reduces subjectivity in pilot assessment, and helps instructors focus on teaching and instructing. CAE Rise is an integral part of the CAE TRAX Academy, a self-paced training continuum that guides student pilots as they learn how to fly. The CAE TRAX Academy uses CAE Rise to deliver status and progress reports while providing the data analytics and predictive analysis necessary for continuous improvement and closed-loop training.

As a globally recognized training systems integrator, we are proud to support the preparation and training of military pilots around the world.

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\*Since 1 January 2016, the Helicopter Division of Leonardo absorbed the activities of AgustaWestland.

\*\*Formerly Eurocopter Group, Airbus Helicopters is the helicopter manufacturing division of Airbus Group. In line with the company's new identity, Airbus Helicopters has renamed its product range, replacing the former "EC" designation with an "H" (for example: EC145 is labelled H145M)

# ACRONYMS

## DEVICES

<b>ACE</b>	Air Combat Emulators	<b>FDS</b>	Flight Dynamics Simulator	<b>MST</b>	Mission System
<b>ACES</b>	Aerial Combat Engagement Simulator	<b>FFMS</b>	Full Flight Mission Simulator	<b>MTT</b>	Military Training Technology
<b>AMT</b>	Avionics Maintenance Trainer	<b>FFS</b>	Full Flight Simulator	<b>OFS</b>	Operational Flight Simulators
<b>APT</b>	Advanced Pilot Training	<b>FMFS</b>	Full Mission Flight Simulator	<b>OF/NT</b>	Operational Flight/Navigational Trainer
<b>ATD</b>	Aviation Training Device	<b>FMFT</b>	Full Mission Flight Trainer	<b>OFT</b>	Operational Flight Trainer
<b>ASTA</b>	Aircrew Synthetic Training Aids	<b>FMS</b>	Full Mission Simulator	<b>OTT</b>	Operational Tactics
<b>AVCATT</b>	Aviation Combined Arms Tactical Trainer	<b>FMST</b>	Flight Management System Trainer	<b>OMS</b>	Operational Mission Simulator
<b>BATD</b>	Basic Aviation Training Device	<b>FMT</b>	Full Mission Trainer	<b>PCT</b>	Procedures Crew Trainer
<b>BaTS</b>	Battle Staff Training Simulator	<b>FNPT</b>	Flight & Navigation Procedures Trainer	<b>PMATS</b>	Predator Mission Aircrew Training System
<b>BOT</b>	Boom Operator Trainer	<b>FPT</b>	Flat Panel Trainer	<b>PTC</b>	Rear Crew
<b>CAPT</b>	Cockpit Avionics Part Task Trainer	<b>FS</b>	Flight Simulator	<b>PTT</b>	Part Task Trainer
<b>CATS</b>	Complete Aircrew Training System	<b>FTD</b>	Flight Training Device	<b>RCPT</b>	Reconfigurable Cockpit Procedures Trainer
<b>CDS</b>	Cockpit Dynamic Simulator	<b>FTS</b>	Flight Training Services	<b>RCT</b>	Rear Crew Trainer
<b>CFTD</b>	Containerized Flight Training Device	<b>FuT</b>	Fuselage Trainer	<b>R&amp;D</b>	Simulator Complexity Test Bed
<b>CMS</b>	Combat Mission Simulator	<b>GT</b>	Integrated Gunnery Trainer	<b>RTT</b>	Reconfigurable Tactics Trainer
<b>CMT</b>	Composite Maintenance Trainer	<b>HAWST</b>	Helicopter Aircrew Weapon Systems Trainer	<b>SIL</b>	System Integration lab
<b>CPT</b>	Cockpit Procedure Trainer	<b>ICMS</b>	Integrated Crew Member Simulator	<b>TBOS</b>	Transportable Blackhawk Operations Simulator
<b>CT/IPS</b>	Cockpit Trainers/Interactive Pilot Stations	<b>ICST</b>	Integrated Cockpit Systems Trainer	<b>TFPS</b>	Transportable Flight Proficiency Simulator
<b>DMRT</b>	Deployable Mission Rehearsal Trainers	<b>ICT</b>	Integrated Cockpit Trainer	<b>TFTD</b>	Tactical Flight Training Device
<b>DMS</b>	Dynamic Mission Simulator	<b>IFS</b>	Integrated Flight Simulation/Initial Flight Training	<b>TOFT</b>	Tactical Operational Flight Trainer
<b>DMT</b>	Distributed Mission Trainer	<b>IFT</b>	Instrument Flight Trainer	<b>TPT</b>	Troop Proficiency Trainer
<b>DTFTD</b>	Deployable Tactical Flight Training Device	<b>IPT</b>	Integrated Procedures Trainer	<b>ULT</b>	Unit Level Trainer
<b>DTT</b>	Desk Top Trainer	<b>LCT</b>	Longbow Crew Trainer	<b>UMT</b>	Unmanned Mission Trainer
<b>ESTD</b>	Ejection Seat	<b>LMPTT</b>	Loadmaster part-task trainers	<b>UTD</b>	Unit Training Device
<b>EPT</b>	Egress Procedures	<b>MPDT</b>	Multi-Purpose	<b>VDGT</b>	Virtual Door Gunner Trainer
<b>EST</b>	Ejection Seat Trainer	<b>MPT</b>	Mission Procedure Trainer	<b>VMT</b>	Virtual Maintenance Trainer
<b>ETD</b>	Egress Training	<b>MTD</b>	Maintenance Training Device	<b>VST</b>	Virtual Sensor Trainer
<b>FBS</b>	Fixed-Base Simulator	<b>MS</b>	Military Simulator	<b>WST</b>	Weapon Systems Trainer
<b>FDD</b>	Flight Desk Device	<b>MSDT</b>	Mission Systems Desktop Trainer	<b>WTT</b>	Weapon Tactics Trainer

## TRAINING LOCATIONS

<b>AFB</b>	Air Force Base
<b>ANGB</b>	Air National Guard Base
<b>MCAS</b>	Marine Corps Air Station
<b>MCB</b>	Marine Cops Base
<b>NAS</b>	Naval Air Station

Please note that different militaries around the world use various names for a full-mission simulator. Some of these include operational flight trainer (OFT), dynamic mission simulator (DMS), combat mission simulator (CMS), weapon systems trainer (WST), or full-flight and mission simulator (FFMS). For example, the US Air Force refers to all of their full-mission simulators as "WSTs" regardless if the aircraft platform carries weapons or not, while the US Army uses the term CMS, and the Australian Defence Forces use the term FFMS.

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# ANALYSIS

FlightGlobal's recent data update shows that CAE is responsible for the largest share of military simulation devices currently in service around the world, with one-fifth of the total deployment. The company is also the leading provider in commercial simulation.

The newly created L3Harris has the second-biggest presence in military aircraft simulation, at just three percentage points behind CAE in market share.

The company was formed in June through a merger of Harris Corporation and L3 Technologies. The other three large manufacturers in military simulation are Boeing, FlightSafety International (FSI) and Thales. They account for 11%, 10% and 9% of the market, respectively.

Devices designed for military aircraft simulation currently total close to 2,800 units. Data shows that 13 new military simulators have been delivered so far in 2019. CAE provided six of those, including five Lockheed Martin C-130J devices to the US Air Force (USAF) and a single Boeing P-8A Poseidon simulator to the UK's Royal Air Force (RAF). FSI has delivered four new devices so far in 2019; for the whole of 2018 it delivered 13.

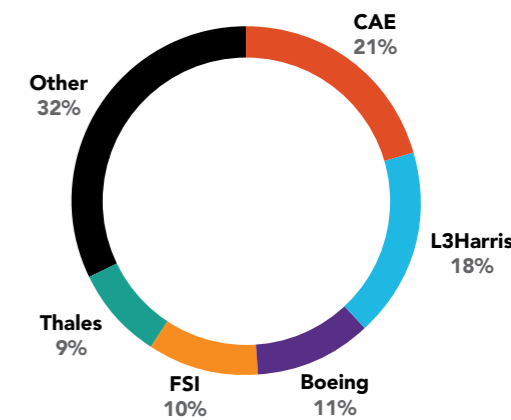
One device was relocated. CAE-Leonardo Helicopters joint venture Rotorsim moved an NH Industries NH90 full-mission simulator from its Sesto Calende centre in Italy to a new site at Maritime Air Base de Kooy in Den Helder, the Netherlands, where training began in October. Rotorsim had trained Dutch NH90 NFH crews in Italy since 2011.

The USA accounts for 55% of the world's military simulators fleet, with just over 1,500 units in service. Nearly half of these devices are operated by the USAF.

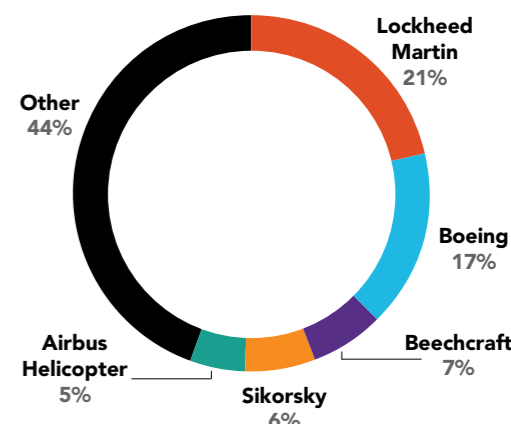
In October 2018, the pre-merger L3 Technologies opened its expanded training centre in Arlington, Texas. The facility provides simulation and classroom instruction for both military and commercial pilots. The centre expansion added approximately 3,720sq m (40,000sq ft), more than doubling its size.

The following month, L3 introduced the Blue Boxer Extended Reality, its latest deployable training system. The portable Blue Boxer emulates aircraft flight characteristics and operational flight programmes by blending virtual reality, high-precision hand tracking and the tactile feel of a physical instrument panel.

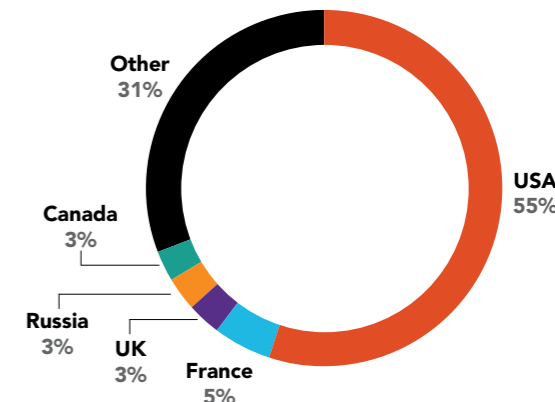
Market share by military simulator manufacturer



Military simulator share by aircraft manufacturer



Military simulator share by country



Designed for austere environments such as expeditionary airfields or ready rooms aboard aircraft carriers, the system unifies the functionality of physical and virtual mission equipment and training to rehearse for combat in the simulated environment.

In November 2018, the Royal Canadian Air Force (RCAF) Boeing CH-147F Chinook, Bell CH-146 Griffon and CC-130J Hercules aircrews that were supporting the UN Task Force Mali mission initially experienced the West African country virtually before embarking on the actual operational mission. CAE created high-fidelity virtual databases of Mali so that RCAF aircrews could complete pre-deployment training and mission rehearsal exercises before operations began.

In February this year, CAE's General Atomics Aeronautical Systems Predator Mission Trainer was accepted as ready for training at the Italian air force's base in Amendola, Italy. The equipment had hosted Predator A variant training during 2018.

In May, Germany announced that it would significantly enhance the capability of its simulator-based training for the Panavia Tornado, as it looks to continue operations with the strike and reconnaissance type until at least 2030. CAE is working towards modernising the simulators currently in use, which have fallen behind the operational standard of Germany's interdiction strike-standard combat aircraft and electronic combat reconnaissance models. The upgrade involves adopting a new programming language and software updates, as well as replacing 1990s-era hardware.

Lastly, the USAF and UK Ministry of Defence held a ground-breaking ceremony in July on new Lockheed F-35 Lightning II infrastructure at RAF Lakenheath in England. The Suffolk installation should be ready to receive the first USAF F-35A in late 2021. The \$196 million project will include a flight simulator facility, a maintenance unit, new hangars and storage facilities to accommodate two new squadrons.



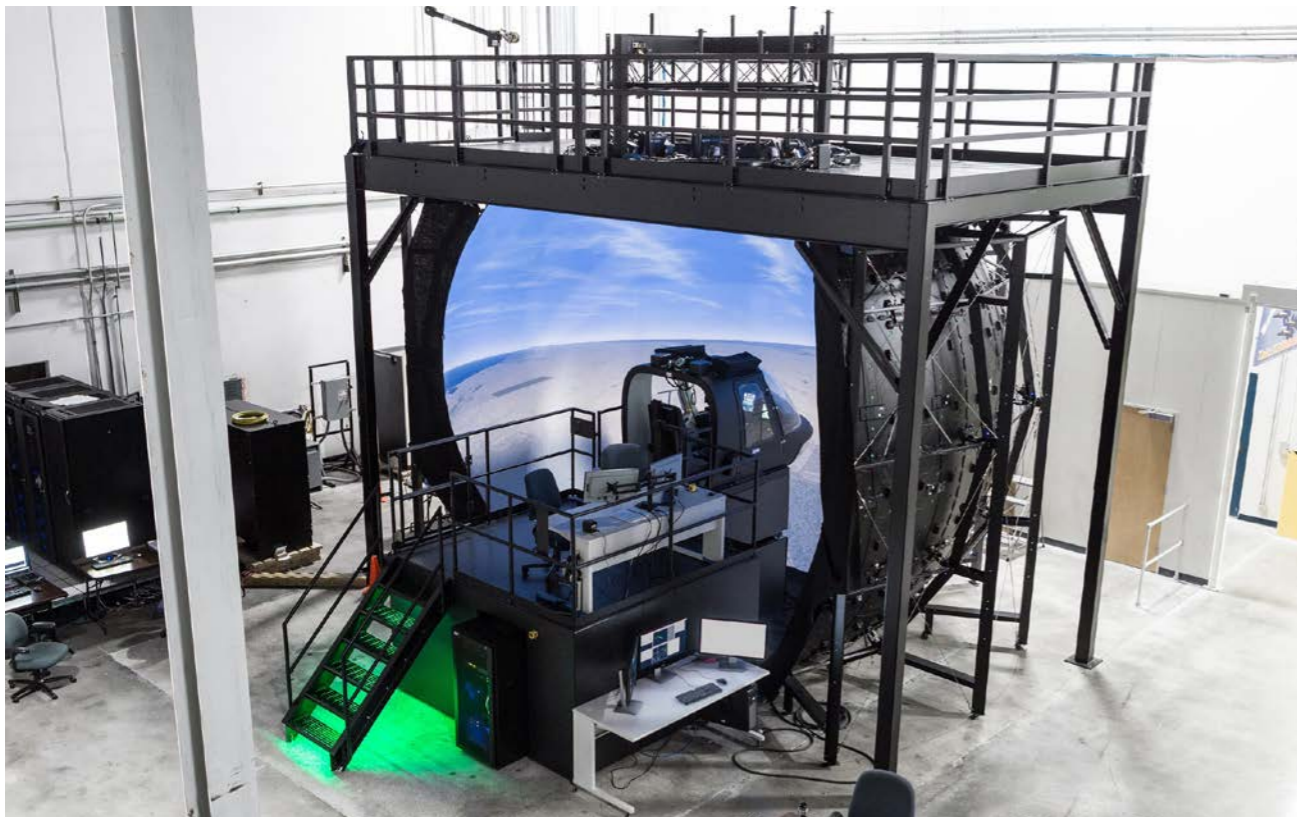
CAE operates a total of eight C-12 Huron simulators at the company's Dothan Training Center to support Army, Air Force and Navy training

# CENSUS BY AIRCRAFT TYPE

OPERATOR	TRAINING LOCATION	SIM MANUFACTURER	QTY	SIM TYPE	DEVICE	VISUAL DISPLAY	ENTRY
<b>AERO VODOCHODY L-159 ALCA</b>							
Aero Vodochody	Odolena Voda	E-COM	1	L-159B	FMS	220° x 150°	
<b>AERO VODOCHODY L-39 ALBATROS</b>							
Aero Vodochody	Odolena Voda	E-COM	1			60° x 120°	
National Air Force of Angola	Menongue AB	VRM	1	SGI	FS		2008
Nigerian Air Force	Letov LV		1	L-39ZA	FFS	PC IG	
Russian Air Force	Krasnodar	CSTS Dinamika	4	L-39	FMS	Raduga CD	2006
Russian Air Force	Krasnodar	CSTS Dinamika	5	L-39	FMS	Raduga CD	2007
Russian Air Force	Various bases	CSTS Dinamika	3	L-39	FMS	Raduga CD	2017
Slovak Air Force	Sliac	VRM	1	L-39-CZA	FTD	IMMAX	2008
<b>AERO VODOCHODY L-59 SUPER ALBATROS</b>							
Egyptian Air Force	Bilbays	Letov LV	1	L-59E	FMS	PC IG	
Tunisian Air Force	Gafsa AB	Letov LV	1	L-59T	FMS	PC IG	
<b>AEROSPATIALE AS332 SUPER PUMA</b>							
French Air Force		Thales	2	SA330	FFS	ThalesView	2002
NATO-NSPA	Bonn-Handelgar	Frasca International	1	AS332 Super Puma		TruVision Global	2014
<b>AEROSPATIALE SA330 PUMA</b>							
Romanian Air Force	București - Otopeni	Elbit Systems	1	SA330 Puma	FFS	PC IG	
Royal Air Force		CAE	1	SA330	DMS	Medallion 1	1989
<b>AEROSPATIALE SA341/342 GAZELLE</b>							
French Army	Etain	Thales	1	SA342 Gazelle Viviane	FNPT	ThalesView	2009
French Army	Le Luc en Provence	Thales	1	SA342 Gazelle Viviane	FNPT	ThalesView	2009
French Army	Pau	Thales	1	SA342 Gazelle Viviane	FNPT	ThalesView	2010
French Army	Phalsbourg	Thales	1	SA342 Gazelle Viviane	FNPT	ThalesView	2011
<b>AGUSTA AB205</b>							
Italian Air Force		CAE	2	UH-1	OFT	Vital IV/5W	1981
Italian Army		CAE	2	UH-1	FFS	Maxvue Enhanced A+ FP2	1981
Royal Moroccan Air Force		CAE	1	UH-1	OFT	Vital III-S	1981
<b>AIDC F-CK-1 CHING-KUO</b>							
Republic of China Air Force		AIDC	1	F-CK-1A/B	FMS	ESIG-3000/dome	
<b>AIRBUS HELICOPTERS AS332 SUPER PUMA</b>							
Republic of Singapore Air Force		CAE	1	AS332	FMS	Medallion-6000/240 x 90	2010
Saudi Arabian Navy		Thales	1	Super Puma	FFS	SpaceMagic	
<b>AIRBUS HELICOPTERS AS350 ECUREUIL</b>							
Thales Training Academy		Thales	1	AS350 B3 plus	FFS/FTD	ThalesView	2014
<b>AIRBUS HELICOPTERS AS365 DAUPHIN</b>							
Eurocopter South East Asia	Singapore	Thales	1	Dauphin	FFS	ThalesView	2012
French Navy	Hyeres Naval AB	Sogitec	2	AS365 Dauphin		Apogée 6	
HATSOFF		CAE	1	AS365	FMS	Medallion	2009
HeliUnion Training Center	Angoulême	Thales	1	Dauphin	FFS	ThalesView	2012
United States Coast Guard	Mobile, AL	Aero Simulation	1			PC IG	2009
<b>AIRBUS HELICOPTERS AS532 COUGAR</b>							
French Air Force	Villacoublay	Sogitec	1	AS532 & SA330		Apogée 3	
Republic of Singapore Air Force		CAE	1	AS332	CDS	Medallion-6000/240 x 90	2007
Spanish Army	Colmenar	Indra Sistemas	1	HU-21L	FMS	INVIS2/8ch	2003
Swiss Air Force	Emmen	Thales	1	AS532Mk1	FFS	ThalesView	2012
<b>AIRBUS HELICOPTERS AS550/AS555 FENNEC</b>							
French Air Force	Orange	Thales	2	AS550 Fennec	FNPT	Space Magic	2003
French Air Force	Villacoublay	Thales	1	AS550 Fennec	FNPT	Space Magic	2003
French Army	Le Luc en Provence	Thales	1	AS550 Fennec	FNPT	Space Magic	2003
Republic of Singapore Air Force		ST Electronics	1	AS550A2/C2	CPT	Soko CGI	
<b>AIRBUS HELICOPTERS AS565 PANTHER</b>							
Helisim		Thales	1	AS565	FFS/FTD	ThalesView	2002
Saudi Arabian Navy		Thales	1	Dauphin 2	FFS	SpaceMagic	1995
<b>AIRBUS HELICOPTERS H120</b>							
French Army	Dax	Thales	6	EC120 B	FNPT	ThalesView	2005
Gading Kasturi	Alor Setar	Thales	1	EC120	FNPT	X-Plane	2016
Republic of Singapore Air Force	Seletar	Frasca International	1	EC120	FTD	TruVision	2007
Spanish Air Force	Granada	Indra Sistemas	1	EC-120	FBS	INVIS2/6ch	2003
<b>AIRBUS HELICOPTERS H135M</b>							
Airbus Helicopters		CAE	1	EC-635	FTD		2011
German Army		CAE	8	EC135	FFS	Medallion-6000	2005
German Army		CAE	2	H135M	FTD	Medallion	2008
Haite		Thales	1	EC135	FFS	ThalesView	2016
NATO-NSPA	Bonn-Handelgar	Frasca International	1	EC135		TruVision Global	2009
Polish Armed Forces		CAE	1	EC-135	FTD		2009
Royal Australian Navy	Nowra	Thales	3	EC135	FMS		2016
SAF Training Center	Albertville	Thales	1	EC135	FFS	ThalesView	2012
Spanish Navy	Colmenar	Indra Sistemas	1	H-135	FMS	INVIS3/15ch	2016
Swiss Air Force	Emmen	Thales	2	EC635	FFS	ThalesView	2012
UK Military Flying Training System		CAE	1	H135M	CTT		2016
UK Military Flying Training System		CAE	7	H135M	FTD		2016
<b>AIRBUS HELICOPTERS H145M</b>							



OPERATOR	TRAINING LOCATION	SIM MANUFACTURER	QTY	SIM TYPE	DEVICE	VISUAL DISPLAY	ENTRY
<b>BEECHCRAFT T-34 MENTOR</b>							
Argentine Air Force	Cordoba	Frasca International	4	T-34 Mentor		TruVision Global	1995
United States Navy (USN)		Rockwell Collins	25	Beech T-34C		PC IG	
<b>BEECHCRAFT T-44C PEGASUS</b>							
United States Navy (USN)	NAS Corpus Christi, Texas	CAE	6	T-44C	FTD		2014
<b>BEECHCRAFT T-6 TEXAN II</b>							
Hellenic Air Force	Kalamata Air Base	FSI	1	JPATS	FTD	Vital X	2002
Hellenic Air Force	Kalamata Air Base	FSI	1	JPATS	FTD	Vital X	2002
Iraqi Air Force	Tikrit AFB	FSI	1	JPATS	FTD	Vital X	2011
Israeli Air Force	Hatzerim AB	FSI	2	JPATS	FTD	Vital X	2009
Macedonian Air Force		CAE	2	T-6 Texan II	OFT		2014
NATO Flying Training in Canada (NFTC)		CAE	2	T-6	FTD	Maxvue Enhanced B FP2/300/8 Channels	2000
NATO Flying Training in Canada (NFTC)		CAE	1	T-6	FTD	Maxvue Enhanced B FP2/180/4 Channels	2001
Royal Moroccan Air Force	RMAF, Ben Guerir AB, Marrakech	FSI	2	JPATS	OFT	Vital X	2011
Royal New Zealand Air Force		CAE	3	T-6	DTT	Medallion	2014
Royal New Zealand Air Force		CAE	2	T-6	OFT	Medallion	2014
Royal New Zealand Air Force		CAE	1	T-6	UTD	Medallion	2014
United States Air Force (USAF)	Colorado Springs	Frasca International	12	T-6A	FTD	FVS-200TX/3ch	
United States Air Force (USAF)	Columbus AFB, MS	FSI	2	JPATS	IFT	Vital X	2006
United States Air Force (USAF)	Columbus AFB, MS	FSI	2	JPATS	OFT	Vital X	2006
United States Air Force (USAF)	Columbus AFB, MS	FSI	2	JPATS	UTD		2006
United States Air Force (USAF)	Columbus AFB, MS	FSI	4	JPATS	IFT	Vital X	2007
United States Air Force (USAF)	Columbus AFB, MS	FSI	2	JPATS	OFT	Vital X	2007
United States Air Force (USAF)	Columbus AFB, MS	FSI	2	JPATS	UTD		2007
United States Air Force (USAF)	Laughlin AFB, TX	FSI	2	JPATS	IFT	Vital X	2002
United States Air Force (USAF)	Laughlin AFB, TX	FSI	2	JPATS	OFT	Vital X	2002
United States Air Force (USAF)	Laughlin AFB, TX	FSI	2	JPATS	UTD		2002
United States Air Force (USAF)	Laughlin AFB, TX	FSI	1	JPATS	IFT	Vital X	2003
United States Air Force (USAF)	Laughlin AFB, TX	FSI	1	JPATS	OFT	Vital X	2003
United States Air Force (USAF)	Laughlin AFB, TX	FSI	2	JPATS	UTD		2003
United States Air Force (USAF)	Laughlin AFB, TX	FSI	3	JPATS	IFT	Vital X	2004
United States Air Force (USAF)	Laughlin AFB, TX	FSI	2	JPATS	OFT	Vital X	2004
United States Air Force (USAF)	Laughlin AFB, TX	FSI	3	JPATS	IFT	Vital X	2001
United States Air Force (USAF)	Moody AFB, Georgia	FSI	3	JPATS	OFT	Vital X	2001
United States Air Force (USAF)	Moody AFB, Georgia	FSI	3	JPATS	OFT	Vital X	2001
United States Air Force (USAF)	Moody AFB, Georgia	FSI	3	JPATS	UTD		2001
United States Air Force (USAF)	Randolph AFB, TX	FSI	1	JPATS	IFT	Vital X	2000
United States Air Force (USAF)	Randolph AFB, TX	FSI	1	JPATS	OFT	Vital X	2000



This CAE-built Northstar Aviation 407MRH simulator will be used by the UAE Joint Aviation Command

OPERATOR	TRAINING LOCATION	SIM MANUFACTURER	QTY	SIM TYPE	DEVICE	VISUAL DISPLAY	ENTRY
United States Air Force (USAF)	Randolph AFB, TX	FSI	1	JPATS	UTD		2000
United States Air Force (USAF)	Randolph AFB, TX	FSI	1	JPATS	IFT	Vital X	2002
United States Air Force (USAF)	Randolph AFB, TX	FSI	1	JPATS	OFT	Vital X	2002
United States Air Force (USAF)	Randolph AFB, TX	FSI	1	JPATS	UTD		2002
United States Air Force (USAF)	Randolph AFB, TX	FSI	1	JPATS	IFT	Vital X	2003
United States Air Force (USAF)	Randolph AFB, TX	FSI	1	JPATS	OFT	Vital X	2003
United States Air Force (USAF)	Sheppard AFB, Texas	FSI	1	JPATS	IFT	Vital X	2007
United States Air Force (USAF)	Sheppard AFB, Texas	FSI	1	JPATS	OFT	Vital X	2007
United States Air Force (USAF)	Sheppard AFB, Texas	FSI	3	JPATS	IFT	Vital X	2008
United States Air Force (USAF)	Sheppard AFB, Texas	FSI	1	JPATS	OFT	Vital X	2008
United States Air Force (USAF)	Sheppard AFB, Texas	FSI	3	JPATS	UTD		2008
United States Air Force (USAF)	Vance AFB, OK	FSI	3	JPATS	IFT	Vital X	2005
United States Air Force (USAF)	Vance AFB, OK	FSI	3	JPATS	OFT	Vital X	2005
United States Air Force (USAF)	Vance AFB, OK	FSI	3	JPATS	UTD		2005
United States Air Force (USAF)	Vance AFB, OK	FSI	3	JPATS	IFT	Vital X	2006
United States Air Force (USAF)	Vance AFB, OK	FSI	2	JPATS	OFT	Vital X	2006
United States Air Force (USAF)	Vance AFB, OK	FSI	1	JPATS	UTD		2006
United States Navy (USN)	FS Services, Pensacola FL	FSI	1	JPATS	OFT	Vital X	2010
United States Navy (USN)	NAS Corpus Christi, Texas	FSI	3	JPATS	OFT	Vital X	2011
United States Navy (USN)	NAS Corpus Christi, Texas	FSI	2	JPATS	UTD		2011
United States Navy (USN)	NAS Corpus Christi, Texas	FSI	4	JPATS	OFT	Vital X	2013
United States Navy (USN)	NAS Corpus Christi, Texas	FSI	2	JPATS	UTD		2013
United States Navy (USN)	NAS Pensacola, Florida	FSI	2	JPATS	UTD		2002
United States Navy (USN)	NAS Pensacola, Florida	FSI	1	JPATS	UTD		2003
United States Navy (USN)	NAS Pensacola, Florida	FSI	2	JPATS	UTD		2004
United States Navy (USN)	NAS Pensacola, Florida	FSI	2	JPATS	OFT	Vital X	2005
United States Navy (USN)	NAS Pensacola, Florida	FSI	2	JPATS	OFT	Vital X	2010
United States Navy (USN)	NAS Whiting Field, Florida	FSI	1	JPATS	OFT	Vital X	2005
United States Navy (USN)	NAS Whiting Field, Florida	FSI	2	JPATS	OFT	Vital X	2009
United States Navy (USN)	NAS Whiting Field, Florida	FSI	3	JPATS	UTD		2009
United States Navy (USN)	NAS Whiting Field, Florida	FSI	4	JPATS	OFT	Vital X	2010
United States Navy (USN)	NAS Whiting Field, Florida	FSI	3	JPATS	UTD		2010
United States Navy (USN)	NAS Whiting Field, Florida	FSI	1	JPATS T-6B	FTD	Vital X	2010
United States Navy (USN)	NAS Whiting Field, Florida	FSI	2	JPATS T-6B	FTD	Vital X	2010
United States Navy (USN)	NAS Whiting Field, Florida	FSI	1	JPATS	FTD	Vital X	2012
<b>BELL BOEING V-22 OSPREY</b>							
Royal Air Force	Mildenhall, AFB	FSI	1	CV-22	FTD	Vital X	2013
United States Air Force (USAF)	Cannon AFB, NM	FSI	1	CV-22	FTD	Vital X	2009
United States Air Force (USAF)	Hurlburt Field, FL	FSI	1	CV-22	FTD	Vital X	2004
United States Air Force (USAF)	Hurlburt Field, FL	FSI	1	CV-22	FTD	Vital X	2014
United States Air Force (USAF)	Kirtland AFB, NM	FSI	1	CV-22	FFS	Vital X	2002
United States Air Force (USAF)	Kirtland AFB, NM	FSI	1	CV-22	FTD	Vital X	2002
United States Air Force (USAF)	Kirtland AFB, NM	FSI	1	CV-22	FFS	Vital X	2006
United States Air Force (USAF)	Kirtland AFB, NM	FSI	1	CV-22	FTD	Vital X	2010
United States Marine Corps (USMC)	MCAS Camp Pendleton	Veraxx	2	Aechelon	FTD		2015
United States Marine Corps (USMC)	MCAS Futenma	Veraxx	2	Aechelon	FTD		2012
United States Marine Corps (USMC)	MCAS Miramar	Veraxx	4	Aechelon	FTD		2009
United States Marine Corps (USMC)	MCAS New River, Jacksonville, NC	FSI	1	MV-22	FFS		2000
United States Marine Corps (USMC)	MCAS New River, Jacksonville, NC	FSI	1	MV-22	FTD		2000
United States Marine Corps (USMC)	MCAS New River, Jacksonville, NC	FSI	1	MV-22	FFS		2002
United States Marine Corps (USMC)	MCAS New River, Jacksonville, NC	FSI	1	MV-22	FFS		2004
United States Marine Corps (USMC)	MCAS New River, Jacksonville, NC	Veraxx	2	Aechelon	FTD		2007
United States Marine Corps (USMC)	MCAS Quantico	Veraxx	2	Aechelon	FTD		2014
United States Marine Corps (USMC)	MCB Hawaii	Veraxx	2	Aechelon	FTD		2014
United States Marine Corps (USMC)	NAS Norfolk	Veraxx	2	Aechelon	FTD		2014
United States Navy (USN)		Boeing	6	CV-22	CFTD	Apogee 6	2015
<b>BELL HELICOPTER 206 JETRANGER</b>							
Brazilian Navy	São Pedro da Aldeia Naval AB	Thales	1	Jet ranger III	FTD	PXC IG	
Iraqi Air Force		Frasca International	2	206 JetRanger		TruVision	2011
Japan Coast Guard	Miyagi Prefecture	Frasca International	1	206 JetRanger		TruVision Global	2012
<b>BELL HELICOPTER AH-1 COBRA</b>							
Japan Ground Self-Defense Force	Camp Kisarazu	Mitsubishi	1	AH-1S		ESIG-4000	
Japan Ground Self-Defense Force	Camp Kisarazu	Mitsubishi	2	AH-1S	FMS	DiaScene IG-1000	1980
Republic of Korea Army		CAE	1	AH-1	FMS	ESIG-4350/210° x 60°	1999
<b>BELL HELICOPTER AH-1W SUPERCOBRA</b>							
United States Marine Corps (USMC)	Camp Pendleton, CA	Aero Simulation	1		WST	pC-Nova	2015
United States Marine Corps (USMC)	MCAS Camp Pendleton, CA	FSI	1	AH-1Z	FTD	Vital	2007
United States Marine Corps (USMC)	MCAS Camp Pendleton, CA	FSI	1	AH-1Z	FFS	Vital	2009
United States Marine Corps (USMC)	MCAS New River & Camp Pendleton	L3 Link	2	AH-1W	WST	Vital IX	2005
United States Marine Corps (USMC)	New River, NC	Aero Simulation	1		WST	pC-Nova	2016
<b>BELL HELICOPTER AH-1Z VIPER</b>							
United States Marine Corps (USMC)	MCAS Camp Pendleton, CA	FSI	1	AH-1Z	FTD	Vital XI	2016
United States Navy (USN)	Broken Arrow, Oklahoma	JF Taylor	2	AH-1W	FTD	ESIG-4530	2002
<b>BELL HELICOPTER BELL 212 TWIN HUEY</b>							
Iraqi Air Force		Frasca International	2	Bell 212 Twin Huey		TruVision	2011
Mexican Air Force	Santa Lucia AB	Frasca International	1	Bell 212 Twin Huey		TruVision Global	2015
Mexican Air Force	Santa Lucia AB	Frasca International	1	Bell 212 Twin Huey		TruVision Global	2016
Royal Saudi Air Force		CAE	2	Bell 212	FFS	Vital IV	1982













OPERATOR	TRAINING LOCATION	SIM MANUFACTURER	QTY	SIM TYPE	DEVICE	VISUAL DISPLAY	ENTRY
United States Navy (USN)	Atsugi	Aero Simulation	1		EPX		2011
United States Navy (USN)	Norfolk, VA	Aero Simulation	1		PC IG		2002
United States Navy (USN)	Norfolk, VA	Aero Simulation	1		EPX		2011
United States Navy (USN)	Norfolk, VA	Aero Simulation	1		APT	EPX	2012
United States Navy (USN)	Norfolk, VA	Aero Simulation	1		OFT	EPX	2012
United States Navy (USN)	Norfolk, VA	Aero Simulation	1		OFT	EPX	2013
United States Navy (USN)	Norfolk, VA	Aero Simulation	1		APT	EPX	2014
United States Navy (USN)	Point Mugu, CA	Aero Simulation	1		OFT	EPX	2012
United States Navy (USN)	Pt. Mugu, CA	Aero Simulation	1		OFT	EPX	2012
United States Navy (USN)	Pt. Mugu, CA	Aero Simulation	1		APT	EPX	2015
USN/USMC		CAE	2	E-2	OFT	Maxvue/180 x 45	2006
<b>NORTHROP GRUMMAN E-8 JOINT STARS</b>							
United States Air Force (USAF)	Warner Robins AFB	Rockwell Collins	1	E-8C JSTARS	FTD		
United States Air Force (USAF)	Warner Robins AFB	Rockwell Collins	2	E-8C JSTARS	WST	EPX-5530	1997
<b>NORTHROP GRUMMAN EA-6B PROWLER</b>							
United States Marine Corps (USMC)	MCAS Cherry Point	Lockheed Martin	1	EA-6B ICAP3 Prowler		pC-Nova	
USN/USMC		CAE	3	EA-6B	OF/NT	SPX500	1992
<b>NORTHROP GRUMMAN F-5 TIGER II</b>							
Brazilian Air Force	Canoas AFB	Elbit Systems	2	F-5BR	FMS	PC IG	
Brazilian Air Force	Manaus AFB	Lockheed Martin	1	F-5E	OFT	ESIG HD	1982
Indonesian Air Force		ETC	1	F-5E	Opdis		
Republic of Singapore Air Force	Paya Lebar AB	ST Electronics	4	F-5E	OFT/FMT	Onyx2	
Royal Thai Air Force	Ubon AFB	Elbit Systems	1	F-5E		PC IG	2005
Spanish Air Force	Talavera	Indra Sistemas	1	F-5M	FMS	INVIS2/5ch	2012
<b>NORTHROP GRUMMAN T-38 TALON</b>							
United States Air Force (USAF)		Boeing	14	T-38C AUP	OFT	Boeing VIDS II/1ch 40	
United States Air Force (USAF)		Boeing	14	T-38C AUP	UTD	Boeing VIDS II/1ch 40°	
United States Air Force (USAF)		Boeing	8	T-38C AUP	WST	Boeing VIDS II/360°	
<b>PANAVIA TORNADO</b>							
Royal Air Force	Lossiemouth	Thales	1	Tornado	NAST	Harmony	
<b>PANAVIA TORNADO ADV</b>							
Royal Air Force		Thales	1	Tornado	CPT	Harmony	
<b>PANAVIA TORNADO ATD</b>							
South African Air Force		Thales	2	Tornado	FMS		
<b>PANAVIA TORNADO ECR</b>							
German Air Force		CAE	1	Tornado	FMS	Medallion-6000	1992
<b>PANAVIA TORNADO IDS</b>							
German Air Force		CAE	1	Tornado	FMS	MaxVue 3 ch	1985
German Air Force		CAE	3	Tornado	FMS	Medallion-S Dome display	1991
German Air Force		CAE	2	Tornado	CPT	Medallion	2002
Italian Air Force		CAE/Galileo	2	Tornado	FMS	Dome	1978
Royal Air Force		Thales	3	Tornado	FMS	Harmony	2003
<b>PANAVIA TORNADO TSP</b>							



The French Air Force operates a total of five CAE devices designed to simulate the Pilatus PC-21

OPERATOR	TRAINING LOCATION	SIM MANUFACTURER	QTY	SIM TYPE	DEVICE	VISUAL DISPLAY	ENTRY
Royal Saudi Air Force	Dharan	Thales	2	Tornado	ATD2 FMS		
<b>PILATUS PC-21</b>							
French Air Force		CAE	2	PC-21	FFS		
French Air Force		CAE	3	PC-21	PTT		
Republic of Singapore Air Force	Sembawang AB	Lockheed Martin	1	PC-21	FMS	ESIG-3000	2008
<b>PILATUS PC-7 TURBO TRAINER</b>							
CAE Brunei Multi Purpose Training Centre		CAE	1	PC-7	FMS		2014
Indian Air Force	Dundigal	Pilatus	1			PC IG	2015
Mexican Air Force	Cozumel AB	Frasca International	2	PC-7		SGI	1987
Royal Netherlands Air Force	Wonsdrecht	AMST	1	PC-7	FTD	PC IG	
South African Air Force		Thales	4	PC-7 Astra	PTT	PCIG	
United Arab Emirates Air Force		CAE	2	PC-7	FTD	Maxvue	2002
Uruguayan Air Force	Durazno	Frasca International	1	PC-7		FVS	
<b>PILATUS PC-9 TURBO TRAINER</b>							
Croatian Air Force and Air Defence	Zadar AB	Frasca International	1	PC-9	FTD	TruVision	
Romanian Air Force	Bucharest	ETC	1	PC-9		PC IG	
Royal Air Force of Oman	Masirah AB	Frasca International	2	PC-9		TruVision	
Royal Thai Air Force		ETC-PZL	3	PC-9	OFT	PC IG	
United Arab Emirates Air Force	Al Minhad AB	Frasca International	2	PC-9		TruVision	
<b>PZL I-22 IRYDA</b>							
Polish Air Force		ETC-PZL	1	I-22	FFS	SGI/150° 3ch	
<b>PZL M-28 BRYZA</b>							
Polish Air Force		Letov LV	1	M-28 Bryza 1R	FFS	PC IG	
Polish Air Force		ETC-PZL	1	M-28		PC IG	2013
<b>PZL PZL-130 ORLIK</b>							
Polish Air Force		ETC-PZL	2	PZL-130TC1	ULT	PC IG	
<b>PZL SW-4</b>							
Polish Air Force		CAE	1	SW-4	FFS		2017
Polish Air Force		CAE	1	SW-4	FFS	Medallion-6000	2018
<b>PZL TS-11 ISKRA</b>							
Polish Air Force		ETC-PZL	1	TS-11	FBS	PC/3ch	
<b>PZL W-3 SOKOL</b>							
Polish Air Force		ETC-PZL	1	W-3 Sokol	FMS	SGI/200° x 60°/5ch	
<b>RAYTHEON T-1 JAYHAWK</b>							
Japan Air Self-Defense Force	Miho AB	Lockheed Martin	1	Beech 400A		SGI	
Royal Air Force	Waddington	Rockwell Collins	1	Sentinel R1 (ASTOR)		ESIG	
United States Air Force (USAF)	5 bases	Frasca International	16	T-1 Jayhawk		Raster	
United States Air Force (USAF)	Columbus, Laughlin & Vance AFB	Lockheed Martin	14	Beech 400A		EPX	
United States Air Force (USAF)	Various	L3 Link	16	T-1A		Raster XT	
<b>SAAB GRIPEN</b>							
Hungarian Air Force		Saab	1	JAS 39C	FMS	8ch/240 dome	2006
South African Air Force	Makhado AFB	Saab	2	JAS 39	FMS	Grape	2008
Swedish Air Force	Kallax AB	Saab	4	JAS 39 Gripen		Vega	1998
Swedish Air Force	Kallax AB	Saab	1	JAS 39 Gripen C/D		Grape	2007
Swedish Air Force	Kallinge AB	Lockheed Martin	2	JAS39A	FMS	ESIG-3000	1996
Swedish Air Force	Kallinge AB	Saab	4	JAS 39 Gripen		Vega	1998
Swedish Air Force	Kallinge AB	Saab	1	JAS 39 Gripen C/D		Grape	2009
Swedish Air Force	Kallinge AB	Saab	1	JAS 39 Gripen C/D		Grape	2011
Swedish Air Force	Linköping	Wyle Labs	1	JAS 39 Gripen		PC IG	
Swedish Air Force	Linköping	Saab	1	JAS 39 Gripen C/D		Grape	2005
Swedish Air Force	Sätenäs AB	Lockheed Martin	5	JAS39A	MMT	ESIG-4520	1996
Swedish Air Force	Sätenäs AB	Saab	2	JAS 39 Gripen C/D		Grape	2010
<b>SEPECAT JAGUAR</b>							
Indian Air Force		CAE/Macmet	3	Jaguar	FMS	Vital IV/6w	1982
Indian Air Force		Thales	2	Jaguar I	OFT	Visa 4	1984
<b>SIKORSKI CH-148 CYCLONE</b>							
Royal Canadian Air Force		CAE	6			MPT	
Royal Canadian Air Force	Shearwater	Rockwell Collins	2	CH148 Cyclone		EPX-5000	
<b>SIKORSKY CH-53 SEA STALLION</b>							
German Army		CAE	2	CH-53	FMS	Harmony 1/240° x 90°	2002
Israeli Air Force		CAE	1	CH-53	HAWST	240° x 90°	2004
United States Marine Corps (USMC)	MCB Hawaii	L3 Link	1	CH-53D Sea Stallion	WST	ESIG-5530	2005
<b>SIKORSKY CH-53E SUPER STALLION</b>							
Japan Maritime Self-Defense Force	Tateyama AB	Mitsubishi	1	MH-53E		PT-2000SJ	
United States Marine Corps (USMC)	Fort Dix, NJ	Aero Simulation	1		FTD	pC-Nova	2016
United States Marine Corps (USMC)	MCAS Futenma	USN Pax River MFS	2	CH-53E	CFTD	Alenia	
United States Marine Corps (USMC)	MCAS Futenma	Aero Simulation	1			pC-Nova	2009
United States Marine Corps (USMC)	MCAS New River	Veraxx	2	CH-53E	ATD	pC-Nova	2016
United States Marine Corps (USMC)	MCAS New River & Miramar	L3 Link	2	CH-53E	WST	pC-Nova	2008
<b>SIKORSKY HH-60G PAVE HAWK</b>							
United States Air Force (USAF)	Kirtland AFB, New Mexico	FSI	1	HH-60G AGSS	FFS	Vital X	2011
United States Coast Guard	Mobile, AL	Aero Simulation	1			PC IG	2009
<b>SIKORSKY MH-53 PAVE LOW</b>							
United States Air Force (USAF)	Hurlburt AFB	Lockheed Martin	2	MH-53J Stallion		ESIG	
United States Air Force (USAF)	Hurlburt AFB	Lockheed Martin	1	MH-53M Stallion		ESIG	
United States Navy (USN)	NAS Norfolk	Indra Sistemas	1	MH-53	FMS	pC-Nova/5ch	2007
USN/USMC		Lockheed Martin	2	MH-53E	APT	ESIG-5530	
<b>SIKORSKY MH-60 JAYHAWK</b>							
United States Coast Guard	Mobile, AL	Aero Simulation	1		OFT	pC-Nova	2012





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## CENSUS BY OPERATOR COUNTRY

OPERATOR	AIRCRAFT MANUFACTURER	AIRCRAFT TYPE	SIM MANUFACTURER	QTY	DEVICE	VISUAL DISPLAY	ENTRY
<b>AFGHANISTAN</b>							
Afghan Air Force	Cessna	182 Skylane	Frasca International	4		TruVision Global	2011
Afghan Air Force	Cessna	208 Caravan	Frasca International	2		TruVision Global	2011
<b>ALGERIA</b>							
Algerian Air Force	Lockheed Martin	C-130 Hercules	CAE	1	FMS	Vital IV/4w	1985
<b>ANGOLA</b>							
National Air Force of Angola	Aero Vodochody	L-39 Albatros	VRM	1	FS		2008
National Air Force of Angola	Mikoyan	MiG-17	VRM	1	AFS		
National Air Force of Angola	Moravan	Zlin Z143	VRM	1	FNPT		
<b>ARGENTINA</b>							
Argentine Air Force	Beechcraft	T-34 Mentor	Frasca International	4		TruVision Global	1995
Argentine Air Force	Bell Helicopter	UH-1 Iroquois	Frasca International	1		TruVision	2012
Argentine Air Force	Bombardier	Learjet 35	Frasca International	1		TruVision	
Argentine Air Force	Dassault-Breguet	Super Etendard	Thales	1	OFT	Apogee	
Argentine Air Force	Douglas	A-4 Skyhawk	Camber	1	FTD	SGI	1995
Argentine Army	Bell Helicopter	UH-1 Iroquois	Frasca International	1		TruVision	2012
<b>AUSTRALIA</b>							
Australian Army	Airbus Helicopters	Tiger	Thales	2	FMS	ThalesView	2007
Australian Army	Airbus Helicopters	Tiger	Thales	1	CPT	ThalesView	2008
Australian Army	Airbus Helicopters	Tiger	Thales	1	CPT	ThalesView	2009
Australian Army	NH Industries	NH90	CAE	2	FMFS	Medallion-6000	2002
Australian Army	NH Industries	NH90	CAE/Thales/RDE (HTMI)	2	FFMS	Medallion-S	2012
Australian Army	Sikorsky	SH-60 Seahawk	CAE	1	PTT		
Australian Army	Sikorsky	UH-60 Black Hawk	CAE	1	PTT		
Australian Army	Sikorsky	UH-60 Black Hawk	CAE	1	VMT		
Australian Army	Sikorsky	UH-60 Black Hawk	CAE	2	FMFS	Medallion-6000	2012
Careflight	Leonardo Helicopters	AW139	Thales	1	FFS	ThalesView	2016
Royal Australian Air Force	Airbus Military	A330 MRTT	CAE	1	FMS	Medallion	2007
Royal Australian Air Force	Airbus Military	A330 MRTT	CAE	1	PTT		2007
Royal Australian Air Force	BAE Systems	Hawk	CAE	3	WST		2018
Royal Australian Air Force	Beechcraft	Super King Air 350	CAE	1	FFS	Medallion-6000	2014
Royal Australian Air Force	Boeing	737 AEW&C	Thales	1	OFT	ThalesView	2004
Royal Australian Air Force	Boeing	737 AEW&C	Thales	1	OFT	ThalesView	2010
Royal Australian Air Force	Boeing	C-17 Globemaster III	FSI	1	WST	Vital X	2009
Royal Australian Air Force	Boeing	F/A-18 Hornet	L3 Link	5		SimuView HD	2016



CAE provided in 2015 a FMFS device for the Kaman SH-2G to the Royal New Zealand Air Force in Auckland

OPERATOR	AIRCRAFT MANUFACTURER	AIRCRAFT TYPE	SIM MANUFACTURER	QTY	DEVICE	VISUAL DISPLAY	ENTRY
Royal Australian Air Force	Boeing	F/A-18 Hornet	L3 Link	1		SimuView HD	2017
Royal Australian Air Force	Boeing	F/A-18E/F Super Hornet	L3 Link	4		SimuView HD	2014
Royal Australian Air Force	Lockheed Martin	C-130J Super Hercules	CAE	1	FFS	Medallion-S	1998
Royal Australian Air Force	Lockheed Martin	C-130J Super Hercules	CAE	1	FTD		1999
Royal Australian Air Force	Lockheed Martin	C-130J Super Hercules	CAE	1	VMT		2015
Royal Australian Air Force	Lockheed Martin	F-35 Lightning II	Lockheed Martin	3	DMRT	EPX-5000	2016
Royal Australian Air Force	Lockheed Martin	P-3 Orion	CAE	1	OMS		
Royal Australian Air Force	Lockheed Martin	P-3 Orion	CAE	1	OTT		1998
Royal Australian Air Force	Lockheed Martin	P-3 Orion	Thales	1	FFS	ESIG-5530	1998
Royal Australian Air Force	NH Industries	NH90	Thales	1	FFMS	Medallion-S	2014
Royal Australian Air Force	Sikorsky	SH-60 Seahawk	CAE	2	PTT		2014
Royal Australian Navy	Airbus Helicopters	H135M	Thales	3	FMS		2016
Royal Australian Navy	Boeing	P-8A Poseidon	Boeing/CAE	2	OFT		2015
Royal Australian Navy	NH Industries	NH90	Thales/HTMI	2	FMS	Medallion-S	2013
Royal Australian Navy	Sikorsky	SH-60 Seahawk	CAE	1	VMT		2005
Royal Australian Navy	Sikorsky	SH-60 Seahawk	CAE	2	TOFT		2013
Royal Australian Navy	Sikorsky	SH-60 Seahawk	CAE	1	CMT		2017
Royal Australian Navy	Sikorsky	SH-60 Seahawk	CAE	1	RCT		2017
Royal Australian Navy	Westland	Sea King	Thales	1	OFT	Image II	
TOLL	Leonardo Helicopters	AW139	CAE	1	FFS		2016
Careflight	Leonardo Helicopters	AW139	Thales	1	FFS	ThalesView	2016
TOLL	Leonardo Helicopters	AW139	CAE	1	FFS		2016
<b>AUSTRIA</b>							
Austrian Air Force	Eurofighter	Typhoon	CAE/ESS	1	FMS	Medallion-S/360° dome	2004
<b>BAHRAIN</b>							
Bahrain Defence Force	Sikorsky	UH-60 Black Hawk	Rockwell Collins	1	TBOS	PC IG	2009
Royal Bahraini Air Force	BAE Systems	Hawk	Thales	2	OFT	ThalesView	2004
Royal Bahraini Air Force	Lockheed Martin	F-16 Fighting Falcon	L3 Link	1	UTD	SGI	
<b>BELGIUM</b>							
Belgian Air Component	Leonardo	SF-260	Frasca International	2		TruVision	2010
Belgian Air Component	Lockheed Martin	F-16 Fighting Falcon	Lockheed Martin	2	OFT	PC IG	1982
Belgian Air Component	Lockheed Martin	F-16 Fighting Falcon	Thales	2	WST	ESIG-3000	1997
Belgian Armed Forces	Leonardo Helicopters	AW109	CAE	1	OFT	PT2000/150°	1995
CAE Training Centre - Belgium	Lockheed Martin	C-130 Hercules	CAE	1	OFT	Vital IV	1988
<b>BRAZIL</b>							
Brazilian Air Force	Airbus Military	C295	CAE	1	FFS	Medallion	2009



CAE-built 700MR helicopter simulators are used at RAF Shawbury as part of the UK Military Flying Training System (MFTS) delivered by Ascent

OPERATOR	AIRCRAFT MANUFACTURER	AIRCRAFT TYPE	SIM MANUFACTURER	QTY	DEVICE	VISUAL DISPLAY	ENTRY
Brazilian Air Force	AMX International	AMX	Compro	3	TPT	SGI	
Brazilian Air Force	Embraer	EMB-312 Tucano	ABC	6		Opdis	1987
Brazilian Air Force	Embraer	EMB-314 Super Tucano	Elbit Systems	5	FMS	PC IG	
Brazilian Air Force	Embraer	EMB-314 Super Tucano	Embraer	2			2015
Brazilian Air Force	Northrop Grumman	F-5 Tiger II	Elbit Systems	2	FMS	PC IG	
Brazilian Air Force	Northrop Grumman	F-5 Tiger II	Lockheed Martin	1	OFT	ESIG HD	1982
Brazilian Navy	Bell Helicopter	206 JetRanger	Thales	1	FTD	PXC IG	
Helibras	Airbus Helicopters	H225M	Indra Sistemas	1	FFS	Apogee 6	2015
<b>BRUNEI</b>							
CAE Brunei Multi Purpose Training Centre	Pilatus	PC-7 Turbo Trainer	CAE	1	FMS		2014
CAE Brunei Multi Purpose Training Centre	Sikorsky	S-92	CAE	1	FMS		2014
CAE Brunei Multi Purpose Training Centre	Sikorsky	UH-60 Black Hawk	CAE	1	FMS		2015
<b>CANADA</b>							
Allied Wings	Beechcraft	King Air	FSI	1	FFS	Vital IX	2006
Allied Wings	Bell Helicopter	Bell 412	FSI	1	FFS	Vital IX	2007
Allied Wings	Bell Helicopter	Bell 412	FSI	1	FTD	Vital	2007
Bombardier Aerospace	Embraer	EMB-314 Super Tucano	CAE	2	CPT		1999
Canadian Coast Guard	Bell Helicopter	Bell 412	CAE	1	FFS		2018
Canadian Coast Guard	Bell Helicopter	Bell 429 GlobalRanger	CAE	1	FFS		2018
NATO Flying Training in Canada (NFTC)	BAE Systems	Hawk	CAE	2	FTD	Maxvue Enhanced B FP2	1999
NATO Flying Training in Canada (NFTC)	Beechcraft	T-6 Texan II	CAE	2	FTD	Maxvue Enhanced B FP2/300/8 Channels	2000
NATO Flying Training in Canada (NFTC)	Beechcraft	T-6 Texan II	CAE	1	FTD	Maxvue Enhanced B FP2/180/4 Channels	2001
Royal Canadian Air Force	Airbus Military	C295	CAE	1	CPT		
Royal Canadian Air Force	Airbus Military	C295	CAE	1	FFS		
Royal Canadian Air Force	Airbus Military	C295	CAE	8	MPT		
Royal Canadian Air Force	Airbus Military	C295	CAE	1	OMS		
Royal Canadian Air Force	Airbus Military	C295	CAE	1	PTT		
Royal Canadian Air Force	Airbus Military	C295	CAE	1	SSS		
Royal Canadian Air Force	Airbus Military	C295	CAE	1	VMT		
Royal Canadian Air Force	Bell Helicopter	Bell 412	CAE	1	FMS	Maxvue	1996
Royal Canadian Air Force	Boeing	CH-47 Chinook	CAE	1	DTFTD		2010
Royal Canadian Air Force	Boeing	CH-47 Chinook	CAE	1	GT		2010
Royal Canadian Air Force	Boeing	CH-47 Chinook	CAE	1	TFTD		2010
Royal Canadian Air Force	Boeing	CH-47 Chinook	CAE	1	WST		2010
Royal Canadian Air Force	Boeing	CH-47 Chinook	CAE	3	VMT		2013
Royal Canadian Air Force	Boeing	F/A-18 Hornet	L3 Link	10	PTT	SimuView HD	2014
Royal Canadian Air Force	Boeing	F/A-18 Hornet	L3 Link	6	TOFT	SimuView HD	2014
Royal Canadian Air Force	Leonardo Helicopters	AW101	Bluedrop Simulation Services	1	CPT	URS	2004
Royal Canadian Air Force	Lockheed	CP-140 Aurora	CAE	1	FMS	Vital IV	1978
Royal Canadian Air Force	Lockheed	CP-140 Aurora	CAE	1	OFT	Vital III	1978
Royal Canadian Air Force	Lockheed Martin	C-130 Hercules	CAE	1	FFS	MaxVue	1985
Royal Canadian Air Force	Lockheed Martin	C-130J Super Hercules	CAE	2	FMS		2012
Royal Canadian Air Force	Lockheed Martin	C-130J Super Hercules	CAE	3	IPT		2012
Royal Canadian Air Force	Lockheed Martin	C-130J Super Hercules	CAE/Atlantis	1	FTD		2012
Royal Canadian Air Force	Lockheed Martin	C-130J Super Hercules	CAE/Cascade	1	FuT		2012
Royal Canadian Air Force	Lockheed Martin	C-130J Super Hercules	CAE	2	FuT		2013
Royal Canadian Air Force	Lockheed Martin	C-130J Super Hercules	CAE	1	ICT		2013
Royal Canadian Air Force	Lockheed Martin	P-3 Orion	CAE	1	OMS		
Royal Canadian Air Force	Lockheed Martin	P-3 Orion	CAE/XWAVE	3	PTC		
Royal Canadian Air Force	Lockheed Martin	P-3 Orion	CAE	1	OMS		1996
Royal Canadian Air Force	Lockheed Martin	P-3 Orion	CAE	1	FFS	Medallion-6000	2006
Royal Canadian Air Force	Lockheed Martin	P-3 Orion	CAE	1	FTD		2006
Royal Canadian Air Force	Sikorsky	CH-148 Cyclone	CAE	6	MPT		
Royal Canadian Air Force	Sikorsky	CH-148 Cyclone	Rockwell Collins	2		EPX-5000	
<b>CHILE</b>							
Chilean Air Force	CASA	C-101 Aviojet	Indra Sistemas	1	FTS	INVIS/3ch	2002
Chilean Air Force	Dassault	Mirage III/5/50	Sogitec	1		PC IG	
<b>CHINA</b>							
Haite	Airbus Helicopters	H135M	Thales	1	FFS	ThalesView	2016
Republic of China Air Force	Sukhoi	Su-27 Flanker	Beijing BlueSky	1	FMS	CGI	1998
<b>COLOMBIA</b>							
Colombian Air Force	Beechcraft	King Air	Frasca International	1		FVS-200TX	2001
Colombian Air Force	Enstrom	F28F Falcon	Frasca International	1	FTD	TruVision	
<b>CROATIA</b>							
Croatian Air Force and Air Defence	Pilatus	PC-9 Turbo Trainer	Frasca International	1	FTD	TruVision	
<b>CZECH REPUBLIC</b>							
Aero Vodochody	Aero Vodochody	L-159 Alca	E-COM	1	FMS	220° x 150°	
Aero Vodochody	Aero Vodochody	L-39 Albatros	E-COM	1		60° x 120°	
<b>DENMARK</b>							
Royal Danish Air Force	Leonardo Helicopters	AW101	Bluedrop Simulation Services	1	CPT	Genesis	2009
Royal Danish Air Force	Lockheed Martin	F-16 Fighting Falcon	L3 Link	2		SimuView	2010
Royal Danish Air Force	Lockheed Martin	F-16 Fighting Falcon	L3 Link	2	PTT	SimuView	2010
Royal Danish Navy	Sikorsky	SH-60 Seahawk	CAE	1	OFT		2014
<b>ECUADOR</b>							
Ecuadorian Air Force	Dassault	Mirage F1	Thales	1		SP-3	
Ecuadorian Air Force	Israel Aerospace Industries	Kfir	Israel Aerospace Industries	1		Vital IV/3w	1992
<b>EGYPT</b>							
Egyptian Air Force	Aero Vodochody	L-59 Super Albatros	Letov LV	1	FMS	PC IG	
Egyptian Air Force	Boeing	AH-64 Apache Longbow	Boeing	1	LCT	180° x 60°	2009















OPERATOR	AIRCRAFT MANUFACTURER	AIRCRAFT TYPE	SIM MANUFACTURER	QTY	DEVICE	VISUAL DISPLAY	ENTRY
United States Navy (USN)	Boeing	E-6 Mercury	CAE	1	OFT	Medallion-6000/200, 3 channels	1985
United States Navy (USN)	Boeing	E-6 Mercury	CAE	2	FMS	Medallion-6000/200°	1986
United States Navy (USN)	Boeing	EA-18G Growler	L3Harris	6		SimuView	
United States Navy (USN)	Boeing	F/A-18 Hornet	L3Harris	1	TOFT	SimuView	
United States Navy (USN)	Boeing	F/A-18 Hornet	L3Harris	7	TOFT	SimuView	2012
United States Navy (USN)	Boeing	F/A-18 Hornet	L3Harris	17	TOFT	SimuView	2016
United States Navy (USN)	Boeing	F/A-18E/F Super Hornet	CAE	2	PTT	M-2000	
United States Navy (USN)	Boeing	F/A-18E/F Super Hornet	L3Harris	6	TOFT	SimuView	
United States Navy (USN)	Boeing	F/A-18E/F Super Hornet	Boeing/L3	6	LCT		2001
United States Navy (USN)	Boeing	F/A-18E/F Super Hornet	Boeing/L3	28	TOFT	HD 9	2009
United States Navy (USN)	Boeing	F/A-18E/F Super Hornet	L3Harris	4	TOFT	SimuView	2012
United States Navy (USN)	Boeing	F/A-18E/F Super Hornet	L3Harris	6	TOFT	SimuView	2016
United States Navy (USN)	Boeing	F/A-18E/F Super Hornet	L3Harris	4	TOFT	SimuView	2017
United States Navy (USN)	Boeing	P-8A Poseidon	CAE	1	EFM		2009
United States Navy (USN)	Boeing	P-8A Poseidon	Boeing/CAE	4	OFT	Medallion	2010
United States Navy (USN)	Boeing	P-8A Poseidon	Boeing/CAE	10	VMT		2013
United States Navy (USN)	Boeing	P-8A Poseidon	Boeing/CAE	6	OFT		2014
United States Navy (USN)	Boeing	P-8A Poseidon	Boeing/CAE	6	OFT		2014
United States Navy (USN)	Boeing	P-8A Poseidon	Boeing/CAE	2	OFT		2015
United States Navy (USN)	Boeing Vertol	CH-46 Sea Knight	CAE	1	OFT		1982
United States Navy (USN)	Boeing/BAE Systems	T-45 Goshawk	Boeing	6	OFT	PC-IG	1985
United States Navy (USN)	Lockheed Martin	F-35 Lightning II	Lockheed Martin	7		EPX-5000	2016
United States Navy (USN)	Lockheed Martin	F-35 Lightning II	Lockheed Martin	6	FMS	EPX-5000	2016
United States Navy (USN)	Lockheed Martin	P-3 Orion	CAE	6	OFT	MaxVue Dome	
United States Navy (USN)	Lockheed Martin	P-3 Orion	L3Harris	5	TORT	IDX	2010
United States Navy (USN)	Lockheed Martin	P-3 Orion	Aero Simulation	2		pC-Nova	2012
United States Navy (USN)	Northrop Grumman	E-2 Hawkeye	Contraves	2		AAAlchery	
United States Navy (USN)	Northrop Grumman	E-2 Hawkeye	Rockwell Collins	3		PC IG	
United States Navy (USN)	Northrop Grumman	E-2 Hawkeye	Aero Simulation	1		PC IG	2002
United States Navy (USN)	Northrop Grumman	E-2 Hawkeye	Aero Simulation	1		EPX	2011
United States Navy (USN)	Northrop Grumman	E-2 Hawkeye	Aero Simulation	1	APT	EPX	2012
United States Navy (USN)	Northrop Grumman	E-2 Hawkeye	Aero Simulation	3	OFT	EPX	2012
United States Navy (USN)	Northrop Grumman	E-2 Hawkeye	Aero Simulation	1	OFT	EPX	2013
United States Navy (USN)	Northrop Grumman	E-2 Hawkeye	Aero Simulation	1	APT	EPX	2014
United States Navy (USN)	Northrop Grumman	E-2 Hawkeye	Aero Simulation	1	APT	EPX	2015
United States Navy (USN)	Sikorsky	MH-53 Pave Low	Indra Sistemas	1	FMS	pC Nova/5ch	2007
United States Navy (USN)	Sikorsky	SH-3 Sea King	CAE	1	WST	Vital IV/4w	1990
United States Navy (USN)	Sikorsky	SH-60 Seahawk	CAE	7	OFT	Medallion	
United States Navy (USN)	Sikorsky	SH-60 Seahawk	CAE	1	WTT		
United States Navy (USN)	Sikorsky	SH-60 Seahawk	CAE	5	WTT	Medallion	
United States Navy (USN)	Sikorsky	SH-60 Seahawk	Lockheed Martin	4	TOFT	ESIG	
United States Navy (USN)	Sikorsky	SH-60 Seahawk	Lockheed Martin	2	TOFT	Harmony	
United States Navy (USN)	Sikorsky	SH-60 Seahawk	CAE	2	WST	Harmony 220 x 40	1992
United States Navy (USN)	Sikorsky	SH-60 Seahawk	CAE	2	WST	Harmony 220 x 40	1994
United States Navy (USN)	Sikorsky	SH-60 Seahawk	CAE	1	TOFT	PC-Nova	2002
United States Navy (USN)	Sikorsky	SH-60 Seahawk	CAE	5	OFT	Medallion	2008
United States Navy (USN)	Sikorsky	SH-60 Seahawk	CAE	2	AMT	Medallion	2009
United States Navy (USN)	Sikorsky	SH-60 Seahawk	CAE	1	TOFT	Medallion	2009
United States Navy (USN)	Sikorsky	SH-60 Seahawk	Indra Sistemas	3	FBS	pC Nova/5ch	2009
United States Navy (USN)	Sikorsky	SH-60 Seahawk	CAE	1	MTD	PC-Nova	2010
United States Navy (USN)	Sikorsky	SH-60 Seahawk	CAE	2	TOFT	Medallion	2013
United States Navy (USN)	Sikorsky	SH-60 Seahawk	CAE	1	OFT		2014
United States Navy (USN)	Sikorsky	SH-60 Seahawk	CAE	2	TOFT	Medallion	2014
United States Navy (USN)	Sikorsky	UH-60 Black Hawk	L3Harris	1		SimuView	2016
United States Navy (USN)	Sikorsky	UH-60 Black Hawk	L3Harris	1		SimuView	2017
USN/USMC	Alenia Aermacchi	C-27J Spartan	CAE	1	FTD		2002
USN/USMC	Boeing	F/A-18 Hornet	CAE	3	PTT		
USN/USMC	Boeing Vertol	CH-46 Sea Knight	CAE	2	WST	ESIG-5000/5w	1982
USN/USMC	Lockheed Martin	C-130 Hercules	CAE	1	FTD	ComputScene VI	2001
USN/USMC	Lockheed Martin	C-130 Hercules	CAE	1	CAPTT		2003
USN/USMC	Northrop Grumman	E-2 Hawkeye	CAE	2	OFT	Maxvue/180 x 45	2006
USN/USMC	Northrop Grumman	EA-6B Prowler	CAE	3	OF/NT	SPX500	1992
USN/USMC	Sikorsky	MH-53 Pave Low	Lockheed Martin	2	APT	ESIG-5530	



CAE is a global leader in training for the defence, civil aviation, and healthcare markets. Backed by a record of more than 70 years of industry firsts, CAE continues to help define global training standards with its innovative virtual-to-live training solutions to make flying safer, maintain defence force readiness and enhance patient safety. CAE has the broadest global presence in the industry, with over 10,000 employees, 160 sites and training locations in over 35 countries. Each year, CAE trains more than 220,000 civil and defence crewmembers, including more than 135,000 pilots, and thousands of healthcare professionals worldwide.

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As a training systems integrator, CAE offers governments, defence forces and original equipment manufacturers (OEMs) a comprehensive range of innovative training solutions designed to cost-effectively meet specific training and readiness requirements. CAE is flexible and has a wealth of experience operating and delivering training services across different business models, including government-owned, government-

operated (GOGO); government-owned, contractor-operated (GOCO); or contractor-owned, contractor-operated (COCO) training facilities. CAE's offerings include training needs analysis; instructional systems design; learning management information systems; purpose-built facilities; state-of-the-art synthetic training equipment; curriculum and courseware development; classroom, simulator and live-flying instruction; maintenance and logistics support; in-service support; and financing alternatives.

CAE continues to offer the industry's most comprehensive range of simulation products and training services related to aircrew training. The company is a recognized leader in developing simulators and training systems for transports, tankers, maritime patrol aircraft, helicopters, remotely piloted aircraft, lead-in fighter trainers, and combat aircraft. The comprehensive CAE MR (Mission Reality) Series training equipment suite covers all phases of fixed-wing and rotary-wing training for military aircrews. The product suite ranges from digitally-enabled courseware and the CAE Sprint virtual reality (VR) trainer to fixed-based flight training devices and full-mission, full-motion simulators. Over the past year, CAE has introduced a range of new products, including the CAE 700MR Series flight training device for military helicopter flight and mission training; the CAE Medallion MR e-Series visual system for military fighter and fast-jet training; and the CAE TRAX Academy, which is a self-paced training continuum for military student pilots that includes the CAE Sprint VR trainer.

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