

Tutorial Description

Hello and welcome to the Flight Tutorial.

This is the seventh in a series of tutorials designed to teach players the fundamentals of airplane operations in CMANO. In this tutorial, the following topics will be covered:

- Operation of Russian and Chinese modern missiles.
- Operation of stealth airplanes.
- Engaging enemy airborne HVT (High Value Targets).
- Engaging enemy airplanes armed with modern long-range missiles.

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Briefing

Welcome to the Russian and Chinese Weapons Tutorial.

In this scenario you will be guided through the following topics:

- Operation of Russian and Chinese modern missiles.
- Operation of stealth airplanes.
- Engaging enemy airborne HVT (High Value Targets).
- Engaging enemy airplanes armed with modern long-range missiles.

In this scenario pop-ups will appear with important messages. You can find them in the document that comes with the tutorial or you can open the message history in a second window by pressing Ctrl+Shift+M and scrolling to the appropriate message.

Note: To successfully complete this scenario, you will need to use the knowledge gained in the previous tutorials.

Message 1

Good morning!

Today you will impersonate the commander of the Ramat David Air Base in Northern Israel in an alternate timeline where Israel bought military airplanes from Russia and China!

This will be a good opportunity to try some Russian and Chinese weapons and learn more about them.

The following airplanes are under your command:

2 T-50 PAK-FA stealth fighters, 2 J-20 Mighty Dragon stealth fighters, 2 J-31 stealth fighter/attack planes, 2 MiG-31BM Foxhound interceptors, 2 MiG-35D Fulcrum F multirole fighters, 2 Su-27SM/SM3 Flanker B Fighters, 2 J-16 (Su-27 Copy) Flying Shark fighters, 2 A-50U Mainstay A AEW and 2 Il-78M Midas tankers.

On the various airplanes, you have loaded these Air-to-Air missiles:

Chinese

J-16 Flying Shark

PL-8C (Python 3) – All-Aspect mid-course plus Passive Infrared (IR) terminal guidance – 0,2-8nm

PL-12 – All-Aspect and Datalink (DL/INS) mid-course plus Active Radar Homing (ARH) terminal guidance – 2-50nm

J-20 Mighty Dragon and J-31

PL-10 – All-Aspect High Off-Boresight mid-course plus Passive Infrared (IR) terminal guidance – 0,2-10,8nm

PL-15 (still not in use) – All-Aspect and Datalink (DL/INS) mid-course plus Active Radar Homing (ARH) terminal guidance – 2-94nm

Russian

Su-27SM/SM3 Flanker B

AA-11 Archer [R-73M] – All-Aspect High Off-Boresight mid-course plus Passive Infrared (IR) terminal guidance – 0,2-10 nm

AA-10 Alamo A [R-27R] – SARH 2-45nm

AA-10 Alamo C [R-27RE] – SARH 2-70nm

AA-10 Alamo D [R-27TE] – All-Aspect mid-course plus Passive Infrared (IR) terminal guidance – 2-70nm

MiG-35D Fulcrum F

AA-11 Archer [R-73] – All-Aspect High Off-Boresight mid-course plus Passive Infrared (IR) terminal guidance – 0,2-10 nm

AA-12 Adder B [R-77-1] – All-Aspect and Datalink (DL/INS) mid-course plus Active Radar Homing (ARH) terminal guidance – 2-60nm

T-50 PAK-FA

AA-11 Archer [R-74M2] – All-Aspect High Off-Boresight mid-course plus Passive Infrared (IR) terminal guidance – 0,2-15 nm

AA-12 Adder C [R-77M] – All-Aspect and Datalink (DL/INS) mid-course plus Active Radar Homing (ARH) terminal guidance – 2-75nm

AA-13 Arrow [R-37M] (still not in use) – All-Aspect and Datalink (DL/INS) mid-course plus Active Radar Homing (ARH) terminal guidance – 4-160nm

MiG-31BM Foxhound

AA-11 Archer [R-73] – All-Aspect High Off-Boresight mid-course plus Passive Infrared (IR) terminal guidance – 0,2-10 nm

AA-9 Amos [R-33S] – Inertial (INS) mid-course plus Semi-Active Radar Homing (ARH) terminal guidance – 4-90nm

Message 2

We have good intelligence that the Syrians are planning to strike our base and we must stop their airplanes before they can hit us.

We expect the Syrians to use these planes:

MiG-23ML Flogger G, armed with:

AA-7 Apex C [R-24R] – SARH 2-24nm

AA-8 Aphid [R-60TM] – All-Aspect mid-course plus Passive Infrared (IR) terminal guidance 0,2-5nm

MiG-25P Foxbat A, armed with:

AA-6 Acrid A [R-40R] – SARH 4-30nm

AA-6 Acrid B [R-40T] – Rear-Aspect mid-course plus Passive Infrared (IR) terminal guidance 4-30nm

MiG-29M2 Fulcrum C, armed with:

AA-11 Archer [R-73] – All-Aspect High Off-Boresight mid-course plus Passive Infrared (IR) terminal guidance – 0,2-10 nm

AA-10 Alamo A [R-27R] – SARH 2-45nm

AA-12 Adder B [R-77-1] - All-Aspect and Datalink (DL/INS) mid-course plus Active Radar Homing (ARH) terminal guidance - 2-60nm

They also have a couple of H-6E Badger bombers armed with FAB-500M-54 GPB iron bombs and an A-50 Mainstay A AEW plane.

An AEW plane is an high-value asset and a force multiplier, as its potent radar can track enemy forces at long range and send targeting information to the fighters.

Therefore, it should be a top priority to target it.

Interceptors armed with very-long range missiles, like the MiG-31 or the J-20, can be useful for this task.

These missiles have a lower PoH (90% for the long-range PL-15 and 85% for the very-long range AA-9 Amos and AA-13 Arrow), that will further decrease at long range. Using them against an agile fighter will likely result in a miss, but against non-maneuverable HVTs (AEW airplanes, tankers, transports etc.) are a serious threat.

When you localize the enemy A-50, send a MiG-31, T-50 PAK-FA, J-31 or J-20 to destroy it.

But now, switch on a radar or, better, launch a A-50U Mainstay A. Then order some fighters to take off.

Message 3

You have just detected some airplanes.

Before engaging, make sure that it's an enemy plane.

There is a lot of civilian traffic in this part of the world, so you need to carefully identify those airplanes!

Message 4

We have found some Syrian military planes!

Destroy them before they can get to Israel!

Note 1: You have some stealth airplanes under your command.

These airplanes are harder to detect and to target, and thus can get closer to the enemy.

You can even try to use your stealth airplanes to get within the range of enemy missiles and engage the Syrian planes with short-range weapons, but be careful!

Note 2: The Syrian Fulcrums are armed with medium and long-range missiles and are more dangerous than the other planes. You can try to engage them with very-long range missiles, but this will probably result in a miss. Alternatively, you can use a stealth fighter to engage them at closer range.

Make sure to properly set the WRA for your forces in the Doctrine Window (CTRL + SHIFT + F9).

Message 5

Well done! You have successfully destroyed all the enemy airplanes.

I suggest you try again this scenario using different airplanes and weapons, to learn the various differences between them and the various possible tactics to employ them.

When you think to be ready, head over to the next tutorial.

Message Failure

You have sustained unacceptable losses!

Play again the scenario and try to destroy the enemy airplane without losses!

Message Civilian Killed

You have just destroyed a civilian airplane!

In real life, this is a war crime!

Play again the scenario and be more careful when you decide to shoot!