The New **C295**

Trade Media Briefing

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HO Marketing
The new C295

• Introduction: The market reference

• New Avionics
• Improved ISR operation
• Optimized cabin operation
• Improved performance
• RCAF FWSAR
C295: The reliable and versatile workhorse

- One single platform for multiple types of missions
- Lowest Life Cycle Cost of its class
- The leader of its segment

Always available when needed
One company for aircraft and mission system

- Covering all ISR missions
- Maritime – MSA / MPA
- Overland – Ground Surveillance
- Air – AEW&C
- Electronic – SIGINT

- State-of-the-art Mission System (FITS and sensors)
The preferred medium transport and surveillance aircraft

- The C295 is the preferred medium transport and mission aircraft in its segment

209 aircraft contracted
31 operators (14 with repeat orders)
28 countries
420 000+ FH accumulated
Fleet leader: More than 6000 FH
The C295 incorporates a set of new features that enhance the mission capability of the aircraft, strengthening its position as the market leader in its category.

**IMPROVED PERFORMANCE**
- Winglets
- Higher cruise speeds

**OPTIMISED CABIN OPERATION**
- Wireless intercommunication system
- Relocation of cargo cabin elements

**NEW AVIONICS**
- Improved cockpit HMI
- Compliance with future navigation and ATC

**IMPROVED ISR CAPABILITIES**
- Next generation FITS with the most modern sensors
- Escape hatch and updated ditching procedure
- New generators with 50% additional power
- Gravel deflector for operations in austere and unpaved airfields
The new C295

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- **New Avionics**
  - Improved ISR operation
  - Optimized cabin operation
  - Improved performance
  - RCAF FWSAR
With the Collins Aerospace Pro Line Fusion®, the C295 improves its already good tactical capabilities. This allows operators to fulfil their mission with maximum effectiveness.

A New Standard in Avionics

- New and modern avionics: intuitive Human Machine Interface with touchscreen controls
- Easier operation, reduced pilot workload
- Enhanced tactical operations, thanks to an enhanced situational awareness
- Compliant with current and forthcoming Civil and Military requirements
Intuitive HMI allowing pilots to interact with what they see

- Four high-resolution 14.1” tactile displays
- Touch screen simplicity
- Graphical flight-planning capability (waypoints creation just by touching the screen)
- Night Vision Goggle compatible

Bigger Screens

The new high resolution screens offer double the screen area:
Pilots will benefit from an unsurpassed set of features that optimize and reduce the cabin workload, enabling them to focus on their mission.

Ease of operation

- Reconfigurable screens
- Alerting System & Electronic Charts
- Electronic Checklists
- System Status Reports
The systems and technology incorporated give the pilot the optimum awareness that is key for tactical flying:

- Synthetic Vision System (SVS)
- Overlaid Weather Radar
- Terrain Awareness and Warning Systems (TAWS)
- FITS Tactical Situation Window and EO/IR video displayed in the cockpit (ISR versions)
The combination of the Head-Up Display (HUD) with the Enhanced Vision System (EVS) provides a modern solution that greatly enhances pilots’ situational and terrain awareness, especially in tactical operations and low-visibility landings and low-level flights.
The C295 with its New Avionics is compliant with current and forthcoming civil and military requirements.
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With a tactile interface for intuitive operation, provides new features such as the graphical creation and editing of search patterns.

Faster and more powerful processors, resulting in shorter start-up and booting sequences, reduced mission data up/download times, and higher reliability rates.

The new dual-screen consoles provide two large 24" high-definition displays, which greatly enhance situational awareness, providing an independent tactical picture on each display and sensor window.
Gravel Deflector

- Prevents any debris or gravel lifted by the nose landing gear tyres to reach any impact-sensitive area of the aircraft belly, in particular the radar dome and the antenna
- Installed in the nose landing gear strut

Enables the operation of SAR aircraft in unpaved or polluted airstrips near the area of operation
Compliance with FAR 25 Paragraph 25.801:

- Local reinforcement of the rear lower fuselage structure
- Installation of a hatch in the forward upper area of the main cabin
- Ditching emergency procedure updated in Aircraft Flight Manual

Hatch dimensions: 0.50m x 0.93m
This enhancement is targeted to more power demanding versions such as ISR ones.

+50% more electrical power
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With the optimization of the cargo cabin layout, and the use of new systems such as the Wireless Intercommunication System, the use and operation of the C295 cargo cabin is enhanced.
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The C295 is now fitted with winglets, that provide significant improvements in performance. Higher cruise speeds as a result of new engine mode selection options and fuselage aerodynamic enhancements.
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• RCAF FWSAR
Airbus will deliver 16 CC295 FWSAR that will perform for decades in the most extreme environmental conditions over an expansive SAR Area of Responsibility.
• **18 million sq km** SAR Area

• **37 million** Canadians

• **85%** population within 100 miles of the U.S. border

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But this is not just requiring delivery of 16 aircraft...
What exactly is FWSAR?

FWSAR is a capability replacement programme: Canada has requested 8525 FH/yr of SAR missions by a performance based Contract...

16 CC295 Aircraft
First Collins Avionics Customer
26 Specific Design Changes

4 Main Operating Bases
Adaptation of current infrastructures to host C295 Aircraft

1 MRO Center
Operated by PAL and giving service to all FWSAR fleet and MOBs.

1 Training Center (TC)
Development and construction of one new TC, giving Service to all FWSAR Crews and hosting all Training Devices

Full In Service Support (FISS)
Full In Service Support (FISS fleet) including Maintenance, Spares, GSE and consumables

7 Training Devices
1. Full Flight Simulator
2. Cockpit Procedures Trainer
3. Sensor Station Simulator
4. Mission Procedures Trainer
5. Cockpit systems Part Task Trainer
6. Aircraft Maintenance Trainer
7. Virtual Maintenance Trainer

1 Central Warehouse
Giving Service to all 16 aircraft deployed at the 4 MOB, with high availability requirements

Elec. Inf. Environment (EIE)
Collaborative space, Tech Pubs Viewer, Engineering Services, Logistic Systems management...

100% Offset obligations
As part of the Industry Tech. Benefits (ITB) and Value Proposition (VP) requirements

AirPro
A subsidiary has been created in Canada as the In Service Support Integrator (51% Airbus – 49% PAL Aerospace)
C295 FWSAR’s new capabilities will transform RCAF ability to perform SAR and surveillance over the sea, ground or hilly terrain.
Thank you