



Twenty Eighth Meeting of the Communications/Navigation and Surveillance Sub-group (CNS SG/28) of APANPIRG

WP/25

Guidance Document for Achieving High Resilience in Sustaining Operations of Critical Aeronautical Infrastructure

Presented by Hong Kong, China

Introduction

- **WP/17 presented in CNS SG/27**
 - Share experience and best practices in the planning, design, implementation and maintenance of Critical Aeronautical Infrastructure (CAI) for achieving high resilience
- **Develop a guidance document**



Critical Aeronautical Infrastructure (CAI)

Critical Aeronautical Infrastructure (CAI) needs uninterrupted operations for sustaining round-the-clock provision of air navigation services for flight safety purpose.



Failure of CAI may lead to major disruption or even airspace closure . . .



TRANSPORT / US & WORLD / AVIATION

The EU's air traffic control system failed, and up to 15,000 flights may be grounded



/ Eurocontrol's flight management system failed, affecting as many as 15,000 flights

By Nick Statt

Apr 4, 2018, 2:45 AM GMT+8 | 0 Comments



Photo by Sean Gallup/Getty Images

ECONOMY

Geneva and Zürich airports paralyzed by computer failure, Swiss airspace "closed until further notice"

Flooding at Dubai International Airport, arriving flights diverted due to storm

11:17 am on 17 April 2018

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French air traffic control failure causes major flight delays

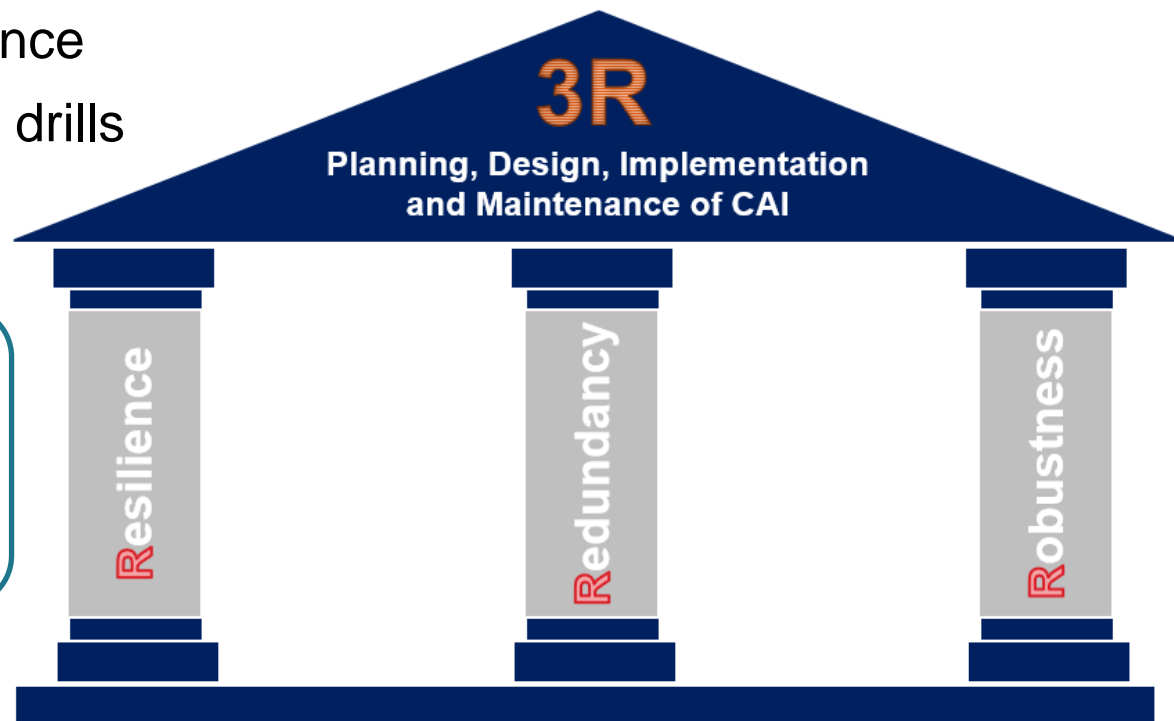
September 03, 2019

An IT system outage at French air navigation service provider DSNA on Sept. 1 caused major delays at airports in France and neighboring countries. The computer crash caused delays of 30 min. to an hour-and-a-half at French airports. The failure, deemed "exceptional" by French civil aviation...

Core Elements for Guidance Document

- ANS Systems Architecture and Design
- Location and Route Diversity
- Power Source and Genset
- Uninterruptible Power Supply
- Air Conditioning
- Comprehensive Maintenance
- Competence, training and drills

Additional elements may be identified and included to ensure comprehensive coverage and address specific needs or considerations.



Development of Guidance Document

States/Administrations and international organizations

share relevant experience,
best practices and
recommendations

ICAO APAC Regional Office

organize a workshop and
invite relevant experts from
States/Administrations and
international organizations to
participate



The outcomes of the workshop to form a basis for further consolidating
into an initial draft of the guidance document for the region.

Action by The Meeting

The meeting is invited to:

- encourage CAAs/ANSPs and international organizations to share their relevant experience, best practices and recommendations in ensuring high resilience in CAI for supporting continuous safe and efficient air navigation services;
- request the ICAO APAC Office to organize a workshop to serve as a platform for facilitating (a) and work with volunteered States/Administrations in consolidating outcomes of the workshop into an initial draft of the guidance document for the region; and
- discuss any relevant matter as appropriate.



Thank you

