

**55th CONFERENCE OF
DIRECTORS GENERAL OF CIVIL AVIATION
ASIA AND PACIFIC REGION**

*Denarau Island, Nadi, Fiji
22 — 26 October 2018*

AGENDA ITEM 4: AIR NAVIGATION

DCL AND D-ATIS SERVICE IN CHINA

Presented by the People's Republic of China

INFORMATION PAPER

SUMMARY

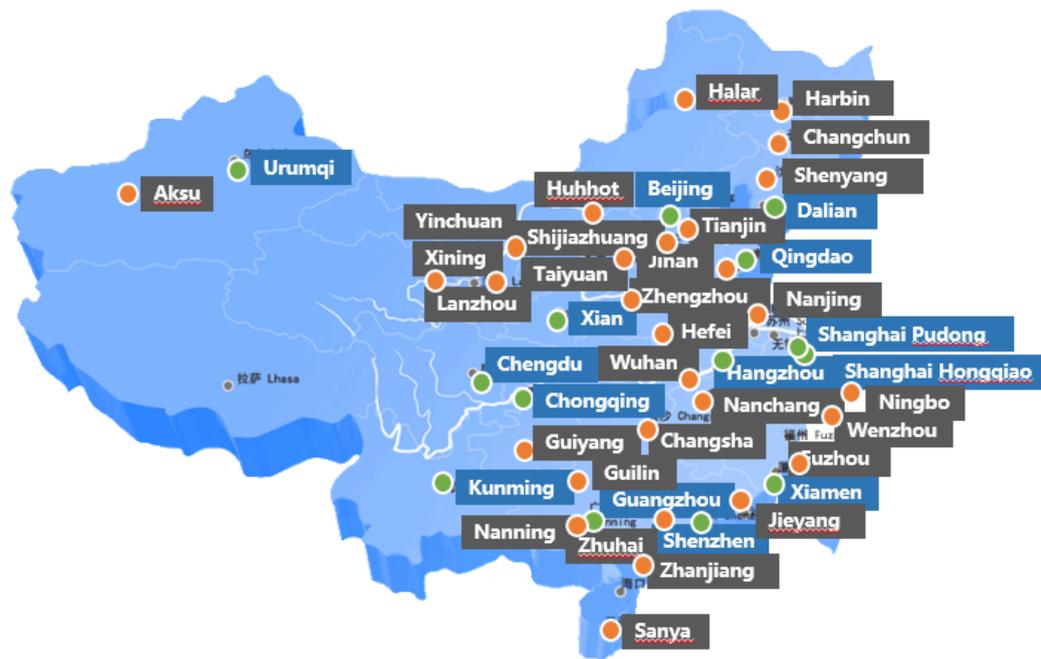
This paper presents that CAAC started to offer DCL and D-ATIS services at 15 airports in China in 2008 according to the standards of ARINC 623, EUROCAE ED-85A, and EUROCAE ED-89A, and will finish the implementation at another 29 airports by the end of 2015. Till then, altogether 44 airports in China provide the service of DCL and D-ATIS.

DCL AND D-ATIS SERVICE IN CHINA

1. INTRODUCTION

1.1 Data link Departure Clearance (DCL) service and Data link Automatic Terminal Information Service (D-ATIS) are most applications in Data link Flight Information Service (DFIS). Based on the successful trial and implementation of DFIS, and the efficiency & safety benefits which it brings, the Asia & Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG) has announced at the 14th meeting in Aug 2003, that the applications of DFIS will be the key and preferential project of CNS/ATM.

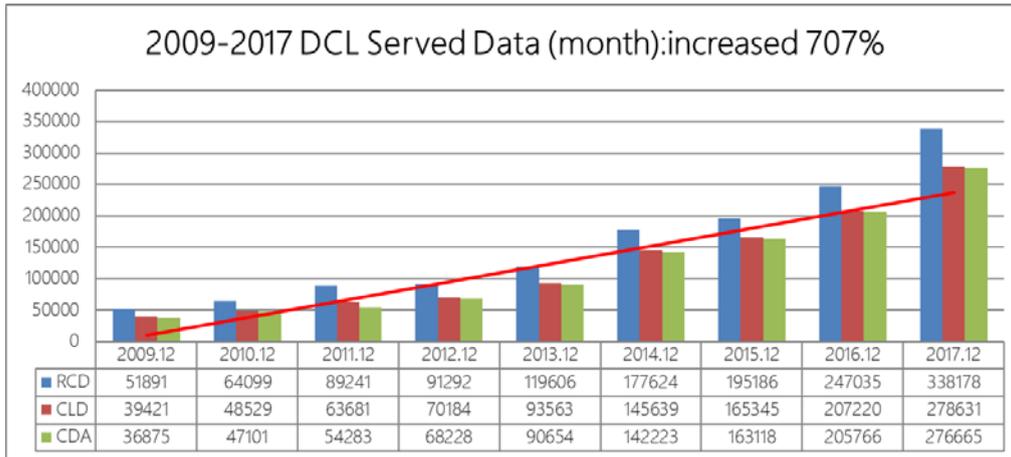
1.2 CAAC started to offer DCL and D-ATIS services at 15 airports in China in 2008 according to the standards of ARINC 623, EUROCAE ED-85A, and EUROCAE ED-89A, and finished the implementation at another 29 airports at the end of 2017. Today there are 44 airports in China which provide the service of DCL and D-ATIS.



Pic - Airports in China which will have DCL & D-ATIS in 2018

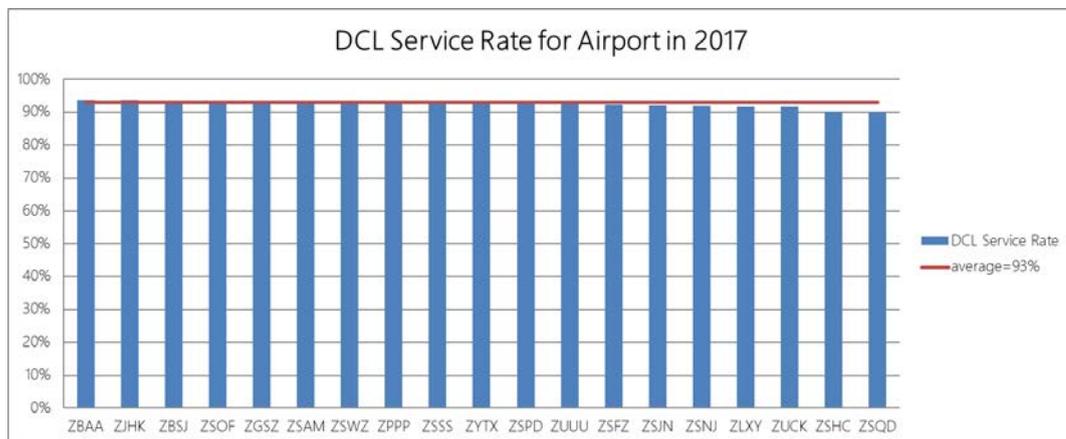
2. DISCUSSION

2.1 DCL had served 278,631 flights by Dec 2017, and had increased 707% from 32,904 flights by Jun 2009.



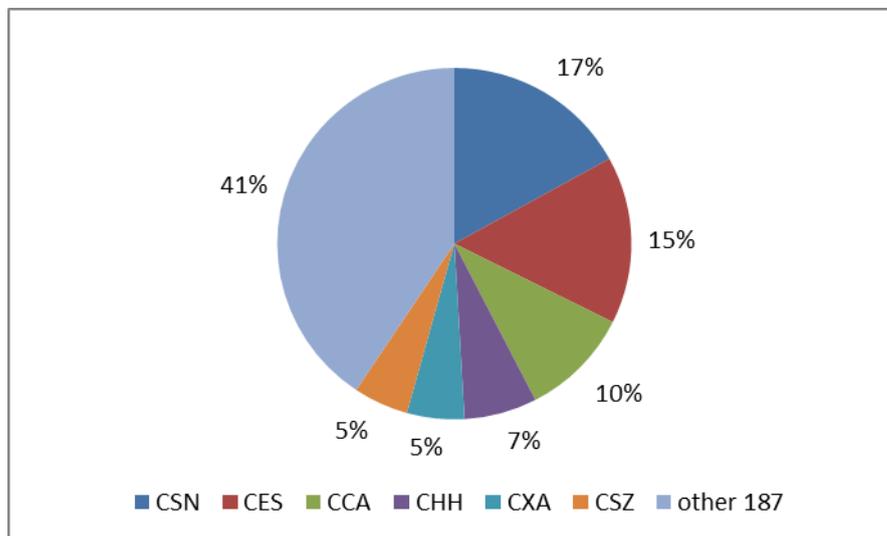
Pic Air-flights served by DCL from 2009 to 2017 in China

2.2 Until Dec of 2017, the average usage of DCL service at China's busiest airports is 92% (average replies of DCL per airport per day / average flights taking off per airport per day).



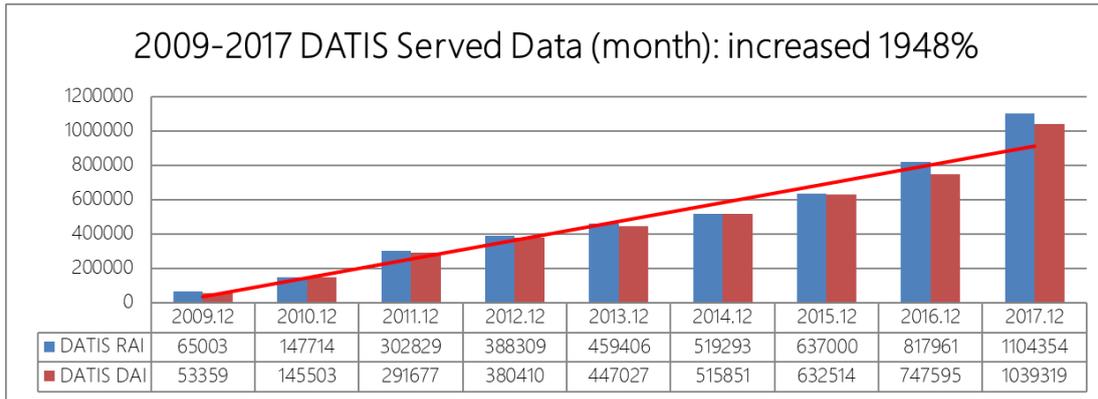
Pic - Average usage of DCL in 2017

2.3 From the aspect of airlines, 25 Chinese airlines and 168 international airlines had been using DCL service by CAAC until Dec 2017.



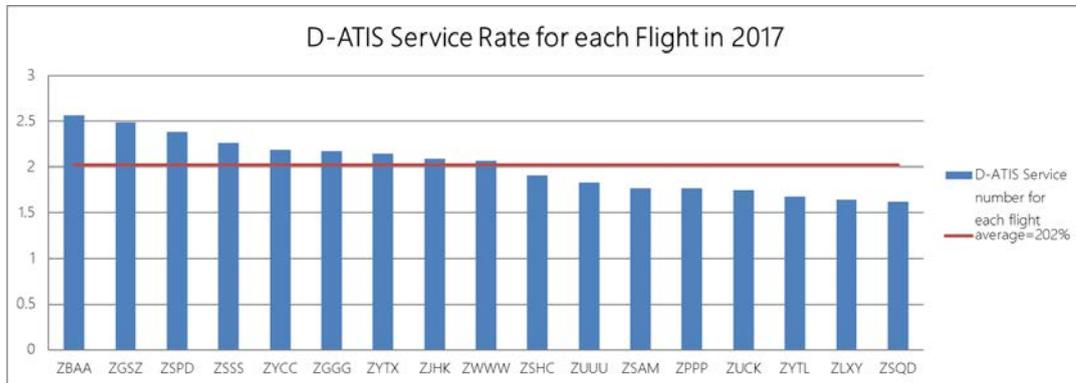
Pic - Statistic of main airlines served by DCL until Dec 2017

2.4 The replies of D-ATIS have been increased by 1948%, from 53,359 flights in Jun 2009 to 1,039,319 flights in Dec 2017.



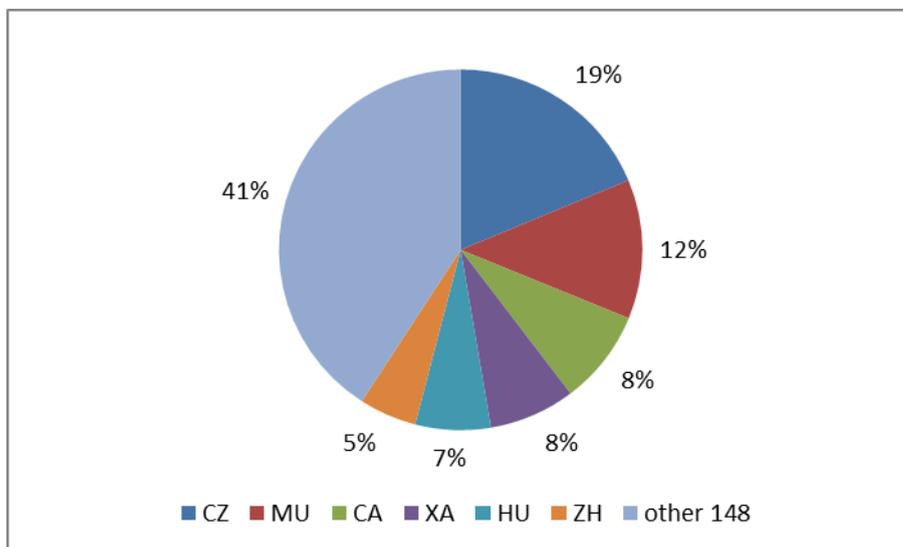
Pic - Statistic of D-ATIS from 2009 to 2017

2.5 Until Dec of 2017, within China's busiest airports which provides D-ATIS service, each crew used D-ATIS for 2.1 times in every flight (average replies of D-ATIS per airport per day / average air-flights per airport per day).



Pic - Average usage of D-ATIS for each flight in 2017

2.6 From the aspect of airlines, 25 Chinese airlines and 129 international airlines had been using D-ATIS service by CAAC until Dec 2017.



Pic - Statistic of main airlines served by D-ATIS until Dec 2017

2.7 With the effectiveness of DCL & D-ATIS growing apparently, DCL has become the first choice of both Chinese and international crews to obtain departure service. Taking the advantages of efficiency, safety, and simplicity comparing to the traditional voice service, D-ATIS is now the most important and necessary service for Chinese and international crews with its efficiency and large range coverage. Meanwhile, ATC controller & pilots' workload and pressure have decreased remarkably. D-ATIS decreases potential safety hazard caused by human mistakes and increase the efficiency and safety of ATC.

2.8 CAAC started to offer DCL and D-ATIS service at 44 airports at the end of 2017, and will launch its D-VOLEMT system covering all airports and airspace in China. It is expected to provide the D-VOLMET service in 2019. ATC of China has already come to the era of overall digital control.

3. ACTION BY THE CONFERENCE

3.1 The meeting is invited to:

- a) note the information contained in this paper: and
- b) discuss any relevant matters as appropriate.

— END —