



*International Civil Aviation Organization*

**THIRD MEETING OF THE COMMON REGIONAL VIRTUAL PRIVATE NETWORK TASK FORCE (VPN) OF APANPIRG (CRV TF/3)**

Bangkok, Thailand, 09 – 12 December 2014

---

**Agenda Item 3: MSA progress of signing process, difficulties**

**CHINA JOIN IN STAGE 1 OF CRV PROJECT**

(Presented by China)

**SUMMARY**

This paper presents CAAC's intention to join in Stage 1 of CRV implementation project and share relevant experiences with the CRV Task Force.

**1. INTRODUCTION**

1.1 Considering the requirements of a safe, secure, robust and cost effective telecommunication transport service to all members in APAC region, the Common Regional VPN network based on Internet Protocol(IP) is recommended by ACSICG.

1.2 According to APANPIRG conclusions 25/31, 25/32, 25/33 and 25/34, states and administrations in APAC region be urged to become Pioneer Parties of CRV and sign the MSA with ICAO TCB.

**2. DISCUSSION**

2.1 Considering the importance of initiatives from stage 1 of CRV project, China would like to join CRV Pioneer States. The MSA has been approved by CAAC, the agreement is expected to be signed by the representative of Air Traffic Management Bureau of CAAC before 15 Dec, 2014.

2.2 CAAC current communication network based on Asynchronous Transfer Mode(ATM) technique has been operative for over 10 years, its insufficient bandwidth and low quality could not meet the increased ATS communication requirements. To enhance the data telecommunication network, China is planning the establishment of the new nationwide communication network providing critical data and voice communication services for ATS applications and other administrative applications. According to the implementation plan, the new network is going to connect over 700 ATS facilities in China and start operation by the end of 2016.

2.3 Considering the high quality and low latency communication requirements for ATS surveillance data and voice, the new network is going to provide both TDM(Time-Division Multiplexing) service and IP-based MPLS(Multi-Protocol Label Switching) service over a common infrastructure. To ensure the cyber security, the network infrastructure is being designed to based on the rental SDH links and CAAC managed network equipments, rather than using MPLS-VPN service from telecom service providers. China would like to share the experiences learn from the project with other states working on CRV implementation.

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to note the information contained in this paper.

-----