

PROGRESS OF CRV IMPLEMENTATION IN PAKISTAN

**Presented by:
Pakistan Civil Aviation Authority**

INTRODUCTION

- 1.1 Pakistan being ICAO contracting state in APAC region, is committed for implementation of CRV for exchange of flight *information* with neighboring states. Accordingly, a contract between Pakistan Civil Aviation Authority and CRV Service Provider (PCCW Global) was signed in Dec 2022 on behalf of Pakistan.
- 1.2 PCCW Global installed its NID (Network Interface Device) at Jinnah Int'l Airport Karachi and established connectivity of Karachi –Pakistan with Mumbai-India and Beijing –China over CRV Network in Sep 2023.

2. FACTUAL POSITION:

- 2.1 Currently Pakistan have an ATS Message Handling System (AMHS) with Server installed at Karachi and associated terminals at major airports. Pakistan is connected with China, India, Oman, Iran, Kuwait and Afghanistan for exchange of **AFTN/AMHS/AIDC** data and voice. ATS coordination between Pakistan and neighboring FIRs is carried out from Karachi, Lahore and Islamabad ACC(s) through dedicated links or switched hotlines. The detail of existing voice and data circuits of Pakistan are indicated as Annex-A

- 2.2 Pakistan has initially subscribed to CRV package “D” with 1Mbps bandwidth for sharing AMHS data and voice
- 2.3 The connectivity with India over CRV network has been successfully established while test/trials with China are in progress. The AFTN/AMHS link between Karachi and Kabul will be shifted to CRV once agreed by Afghanistan.
- 2.4 The AFTN/AMHS data and voice connectivity over CRV network with states locating in CRV MID – region i.e. Iran, Oman and Kuwait will be established as soon as deemed suitable by respective states.

INTERNATIONAL LEASED CIRCUITS (DATA/SPEECH) OPERATING BETWEEN PAKISTAN & NEIGHBOURING STATES

Sr. No.	CONNECTING CITY	COUNTRY	TYPE OF SERVICE	TYPE OF CONNECTIVITY	Bandwidth
a	Beijing	China	AFTN	Dedicated circuit	64Kbps
b	Mumbai	India	AMHS data + VoIP	CRV	1M
c	Muscat	Oman	AFTN + VoIP	Dedicated circuit	64Kbps
d	Kuwait City	Kuwait	AMHS data	MPLS	128 Kbps
e	Tehran	Iran	AFTN + VoIP	VPN	1M
f	Kabul	Afghanistan	AFTN	VPN	1M
g	Delhi	India	Voice	Dedicated circuit	64Kbps

3. Current Challenges & Future Plans:

- 3.1 The existing non-redundant DXX (Digital Cross Connect) link between Karachi & Muscat needs urgent shifting on CRV due to technological obsolescence, discontinuation of support from local service provider and retiring of submarine cable in the year 2024
- 3.2 In future, Pakistan may consider upgrading of CRV subscription to higher package to meet anticipated requirement of enhanced Bandwidth and to increase level of redundancy and reliability of existing links operating on CRV network.

Thank You