

International Civil Aviation Organization

ICAO

**THE FIFTEENTH MEETING OF THE COMMON  
AERONAUTICAL VIRTUAL PRIVATE  
NETWORK OPERATIONS GROUP (CRV OG/15)**

Mumbai, India, 15-19 June 2026

Agenda Item 10: MPLS/IP based inter-regional connection.

**CONNECTION OF RUSSIAN COM CENTRES TO CRV**

(Presented by the Russian Federation)

**SUMMARY**

This working paper contains a proposal to consider an option of using resources of a Russian telecommunication provider TTK to ensure connectivity of the Russian Federation communication centres to CRV.

**1. INTRODUCTION**

1.1. The process of transition from AFTN to AMHS protocol between Russian and ICAO APAC COM centres is nearing completion. Interaction between Khabarovsk – Beijing and Irkutsk – Ulaanbaatar COM centres is enabled using AMHS protocol, and AMHS testing between Moscow and Fukuoka is reaching its final stage. All Com centres are connected via dedicated L2 VPN lines. The transition to the use of CRV is under preparation.

1.2. This working paper contains a proposal to consider a viable option for Russian COM centres to be connected to CRV. It reflects the results of the work done and challenges encountered.

**2. DISCUSSION**

2.1. At the end of 2021, PCCW Global Limited completed the development of technical solutions to connect Moscow and Khabarovsk COM centres to CRV to ensure transition to AMHS exchange with the APAC region COM centres (Japan and China), and in December 2021 an official technical proposal was submitted to State ATM Corporation. The connection diagram for Russian COM centres presented by PCCW Global Limited (Fig.1), was approved by the Russian Federation and the parties began addressing the contract conclusion. However, the process was suspended due to restrictions on the use of Cisco equipment in COM centres of Moscow and Khabarovsk.

2.2. The search for alternative connection options was complicated by the fact that the use of equipment other than Cisco was deemed unacceptable for PCCW Global Limited. In 2025, the Russian telecommunications service provider TTK, which has experience in interacting with PCCW Global Limited, offered its assistance in providing the connectivity.

2.3. It is proposed to connect Russian COM centres to CRV as shown on the diagram in Figure 2. In this case, PCCW Global will be able to configure the network equipment installed in Russian COM centres (CE or NID) in the same way as in the connection shown in Figure 1. At the same time, payments for services will be made between TTK and PCCW Global, on the one hand, and TTK and State ATM Corporation, on the other. In this case, the text of the standard service contract may require

some slight adjustments to provide for this solution which hopefully will be supported by CRV OG and the ICAO Asia-Pacific Office.

2.4. Establishing interaction with PCCW Global will enable the early switch to AMHS exchange via CRV and later transmission of various types of information, including data and voice.

### **3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) discuss any relevant matters as appropriate; and
- c) approve the proposal set out in paragraph 2.3.

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## Connection Moscow and Khabarovsk COM Centre to CRV

### PCCWG Scope

- General CRV Network Design
- Local Loop and NTU Installation
- Cabling between NTU and NID
- CRV Network and Network Interface Device (NID) Configuration
- Project Management and Testing

### Customer Responsibilities

- Designing the customer network and completing the System Design Plan
- Preparing rack space and providing power to the PCCWG equipment
- Installing and configuring customer equipment (LAN switch and router/firewall)
- Laying and adjusting cables between the customer's NID equipment
- Conducting acceptance testing

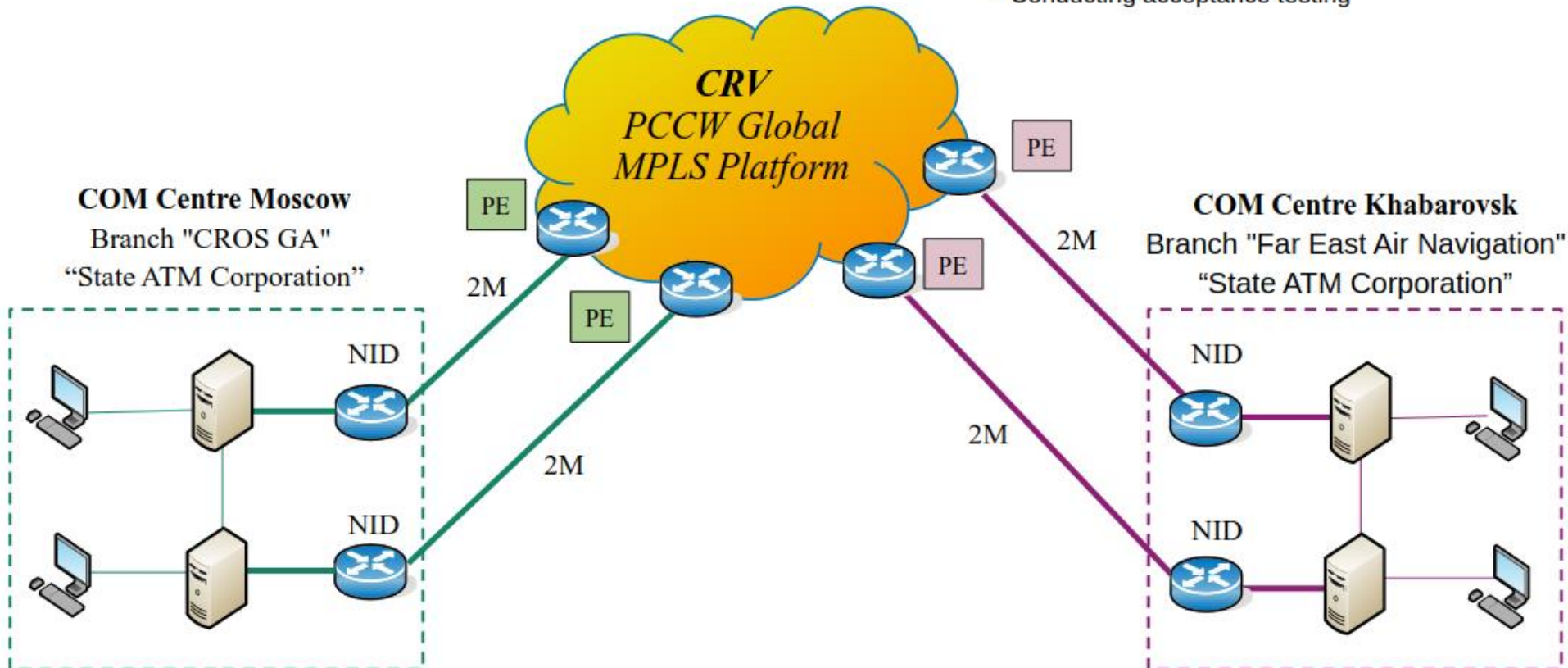


Diagram 1

## Connection Moscow and Khabarovsk COM Centre to CRV

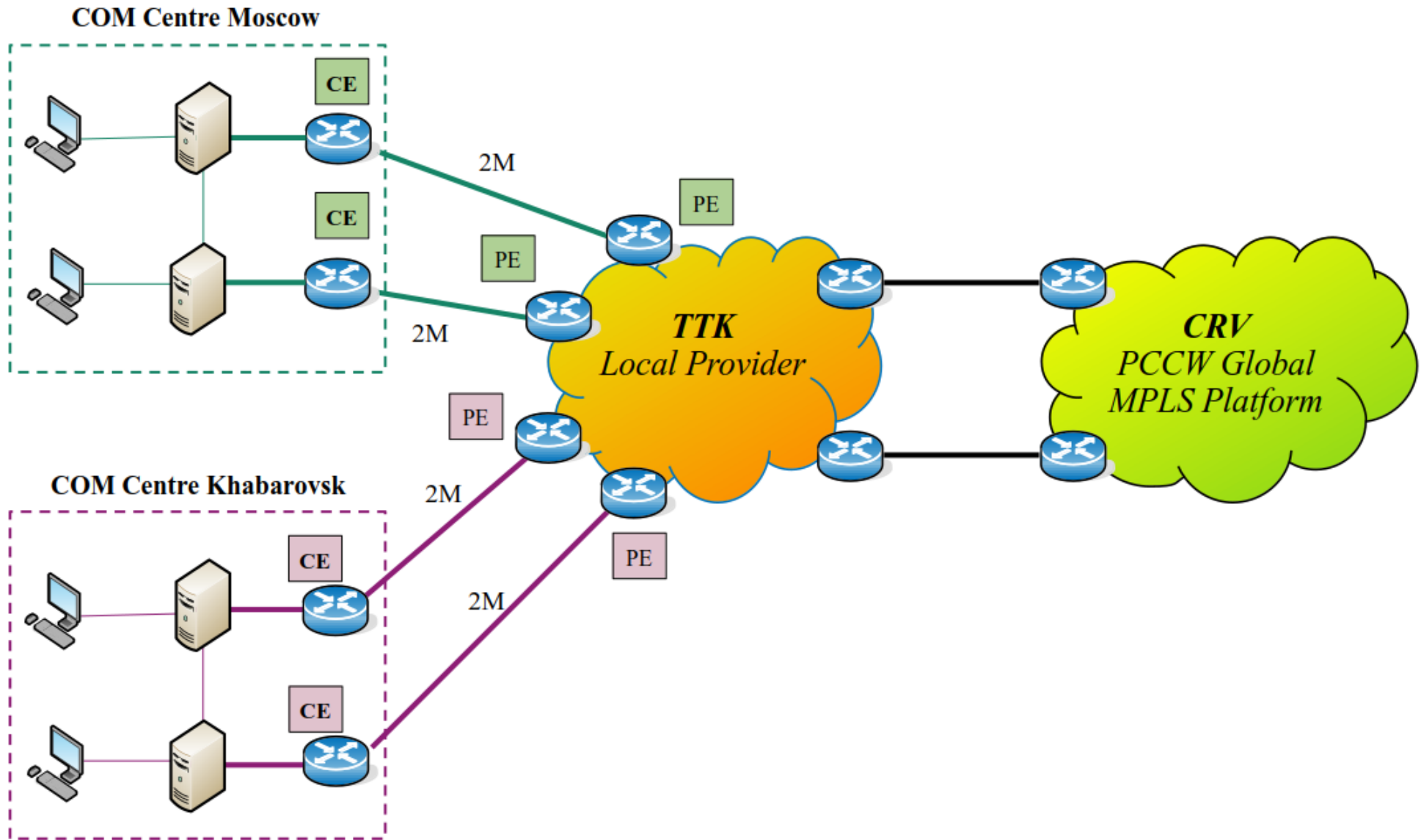


Diagram 2