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FUTURE.**



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CRV Documentation and CRV Joining process illustration

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Joining CRV

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01 Joining CRV



What is it?

- ✓ A cross-border cost-effective telecommunications network for States.
- ✓ Reliable communications infrastructure for aeronautical communications.
- ✓ Enabler for the GANP ASBUs: B0-FICE, B0-NOPS, VoIP and B1-SWIM modules.
- ✓ End to end service

02 Where to start



ICAO APAC Website

Asia and Pacific (APAC) Office

- ✓ Either go to the CRV details on the ICAO APAC website
- ✓ The link is under the APAC Regional Implementation Projects section.
- ✓ Otherwise contact the ICAO APAC office at apac@icao.int

ICAO / Asia and Pacific (APAC) Office

Asia and Pacific (APAC) Office

Welcome to the ICAO Asia and Pacific (APAC) Office

The Asia and Pacific Office was established in Melbourne, Australia in 1948 as the Far East & Pacific Office. The Office was relocated to Bangkok, Thailand in 1955 and renamed as the Asia and Pacific Office (APAC) in 1980. The Regional Sub-Office (RSO) was inaugurated on 27 June 2013 and is hosted in Beijing by the Civil Aviation Administration of China (CAAC).

The APAC Office is accredited to 39 contracting States, and maintains liaison with two Special Administrative Regions of China and 13 other Territories. The Asia/Pacific Region covers vast airspace, with 49 Flight Information Regions.

APAC Regional Implementation Projects

APAC Regional Implementation Projects

- ✓ This page has links to various projects.
- ✓ The CRV is one of those projects

Overview

About APAC

Information for Visitors

60th Anniversary of APAC Office

APAC Contracting States

Vacancies

APAC ATM - ATFM Status Update

COVID-19 & ACCRPG Sub-Groups

Afghanistan ATM Contingency

Environmental Protection

CORSIA

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APAC Webinars

News

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APAC Souvenir for Purchase **NEW**

Information on ...

APAC eDocuments

APAC ANP

APAC Regional Implementation Projects

APAC Regional Implementation Projects

- [ATN/AMHS Guidance Document Tree](#)
- [AFTN Routing Directory](#)
- [ATN/AMHS Implementation Chart / Focal Point](#)
- [Common Aeronautical Virtual Private Network \(CRV\)](#)
- [SWIM](#)
- [GBAS SBAS Implementation](#)

For further information, please contact:

[APAC Office](#)

Connect with us:



Common Aeronautical Virtual Private Network (CRV)

icao.int/APAC/Pages/Join-CRV.aspx

Once on the CRV Project page, you are presented with a brief background to the CRV, and who to contact to get Access to the CRV Portal.

Common Aeronautical Virtual Private Network (CRV)

Background

The CRV is an Asia-Pacific aeronautical network for Asia-Pacific and Middle East ICAO Members. A wholly dependable and reliable communications infrastructure for aeronautical communications, enabling the global roadmap (ASBU B0-FICE, B0-NOPS, VoIP and B1-SWIM modules).

The network utilizes PCCW Global's worldwide MPLS network to provide secure connectivity between ANSPs for the purposes of:

- Ground to Ground Voice Communications
- AFTN/AMHS Data
- ADS-B data sharing
- Future SWIM connectivity
- Other technologies and services as agreed

There are also services available to be consumed via the CRV network. At present these are:

- Aireon Space Based ADS-B
- PCCW IWXXM

CRV is managed by the Operations Group, made up of member ANSPs.

*** **CRV History - 2014** ***

How to Join or Provide a Service ?

- If you are an ANSP wishing to connect to another ANSP or consume a service, please email the APAC CRV Portal administrator at [Mr. Vaughan Hickford](#), with a copy to [Ms. Soniya Nibhani](#).
- If you are proposing the provision of a service be added to the CRV, please liaise through your sponsoring ANSP.

For any questions please contact one of the CRV OG co-chairs or CRV OG Secretary:

CRV OG Co-Chair (Asia) : [Mr. Vaughan Hickford](#)

CRV OG Co-Chair (Pacific) : [Mr. Kelepi Dainaki](#)

CRV OG Secretary : [Ms. Soniya Nibhani](#)

APAC eDocuments

APAC Electronic Documents

- ✓ The Implementation Plan and Operations Manual Are also on the ICAO APAC website under the APAC eDocuments section.
- ✓ These are the same versions that are available in the APAC CRV Portal.

GEN

AGA

ATM

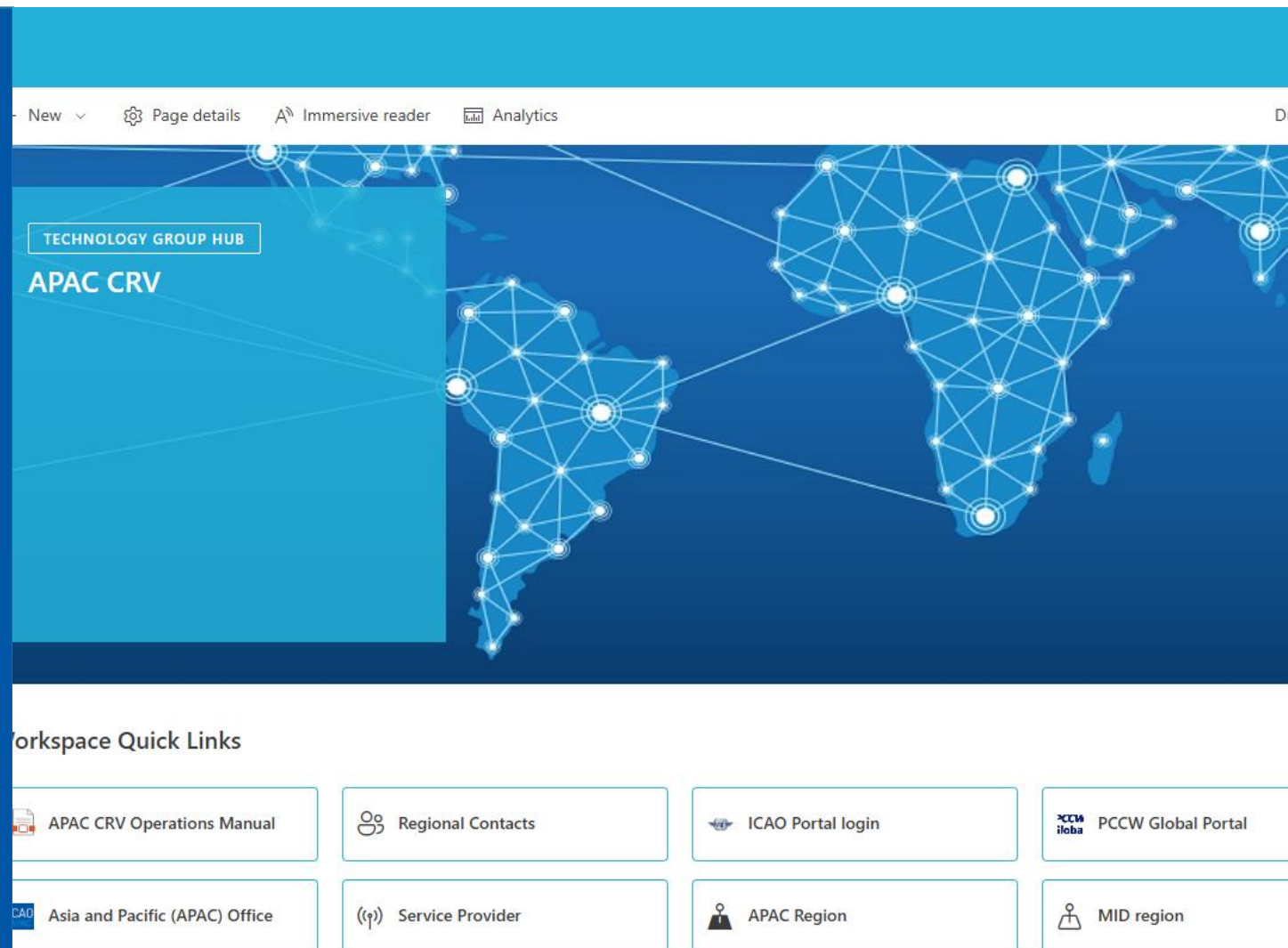
CNS

MET

Search:

Title	Version	Date
AFS		
AFTN/ATSMHS Routing Directory, Asia and Pacific Regions	Thirtieth Edition	May 2024
CRV Implementation Plan	Version 2.2	February 2023
APAC CRV OG Operations Manual	Edition v1.2	February 2023
List of Focal Point for AIDC Implementation		April 2019

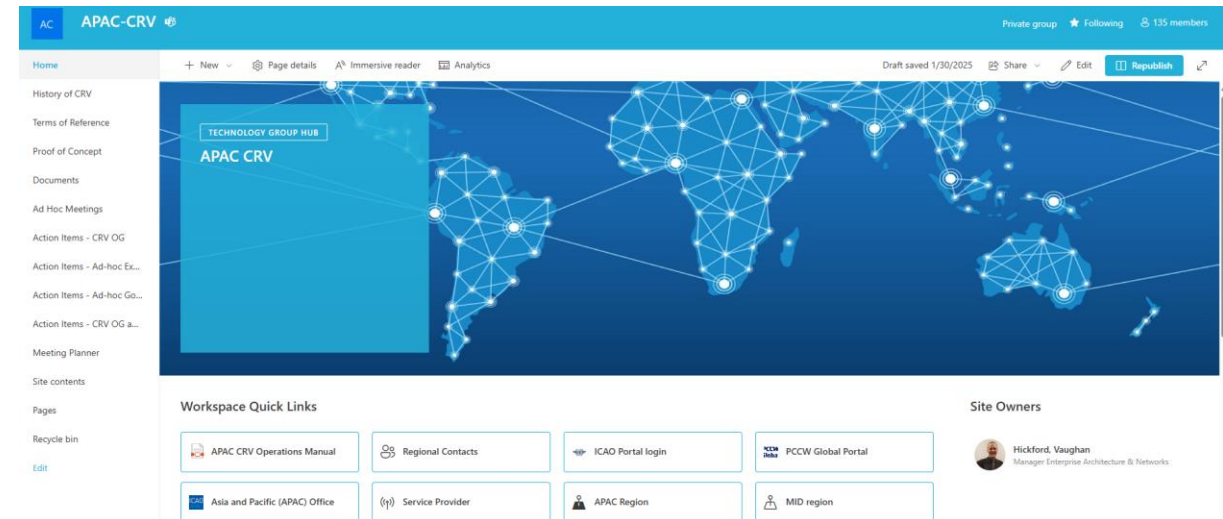
03 The Portal



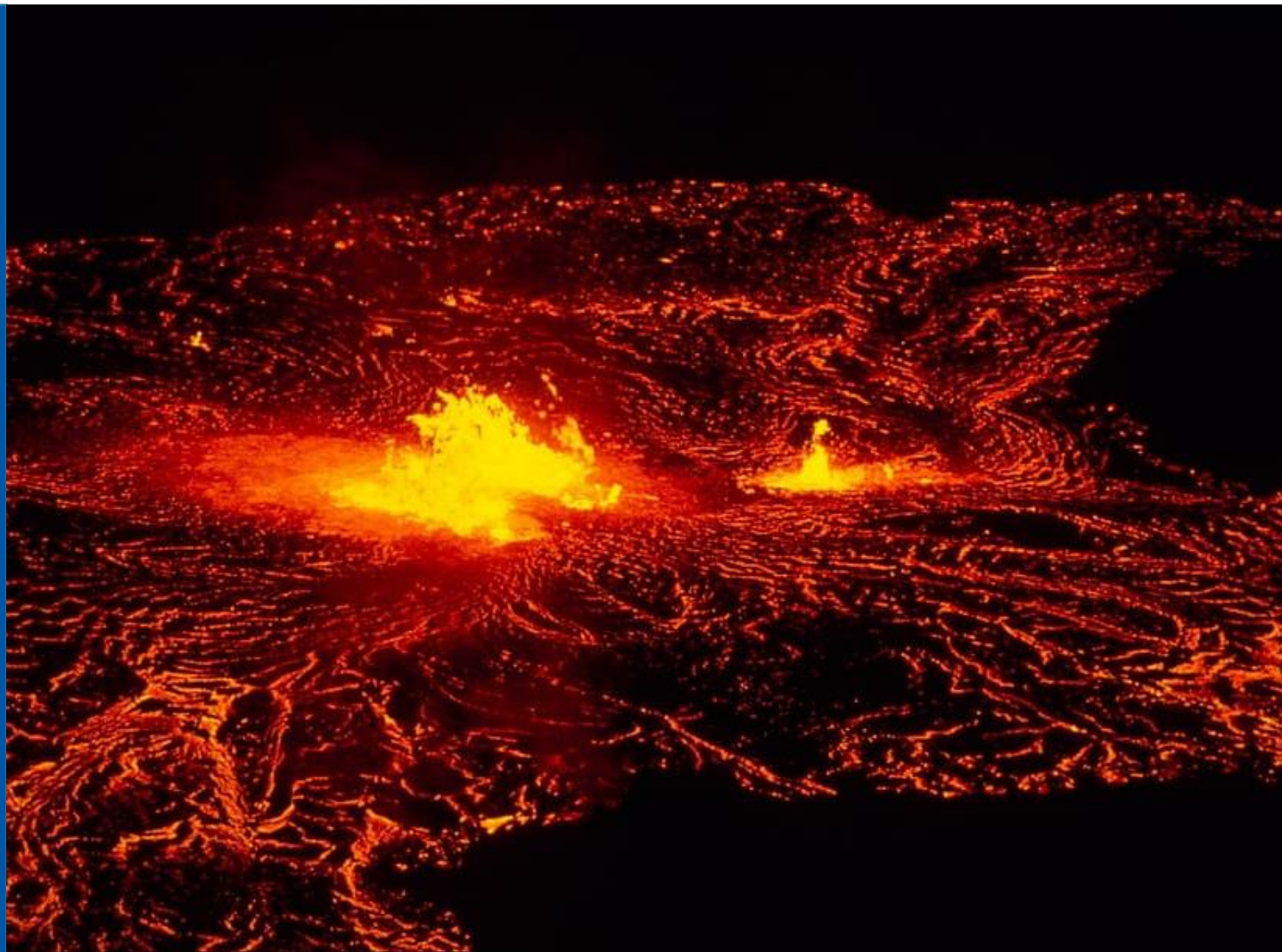
Where and What

APAC CRV

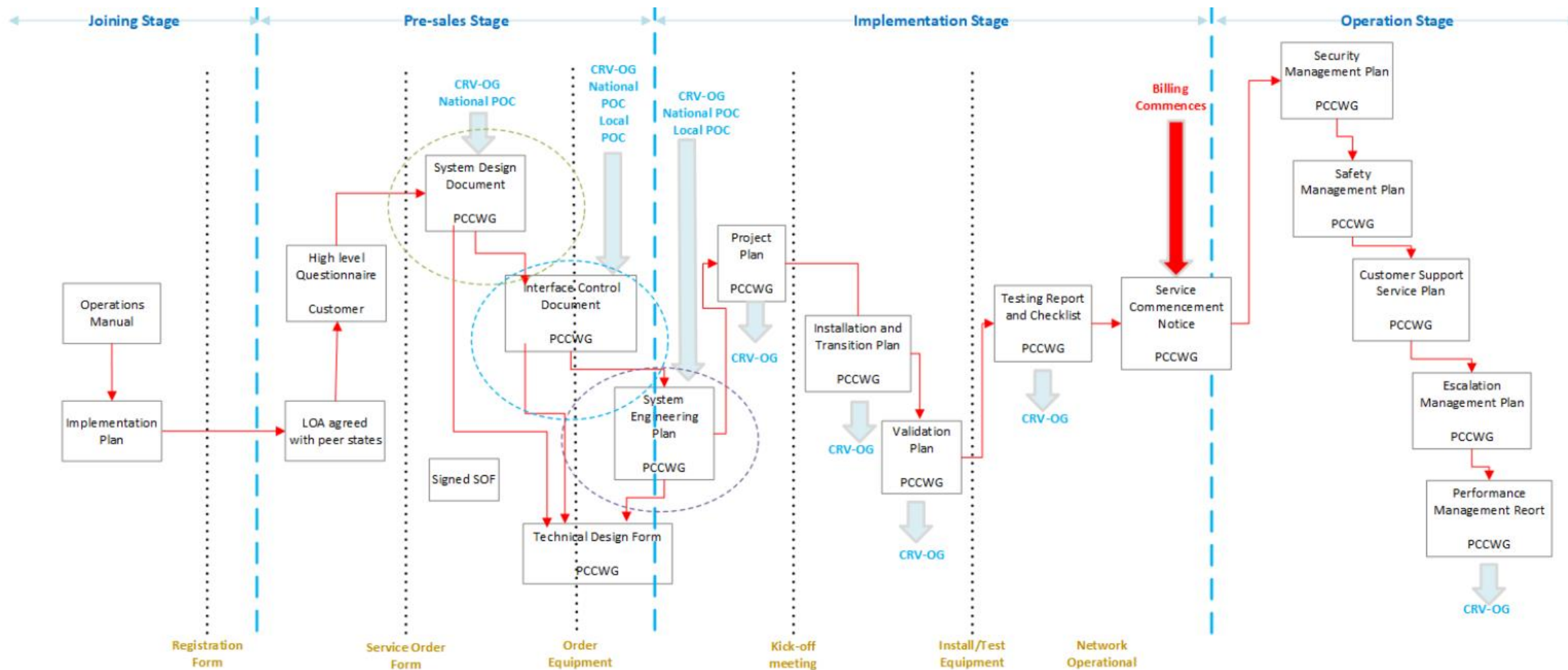
- ✓ The portal is hosted by Airways New Zealand.
- ✓ Contains all of the documentation required to Join, Pre-Sales, Implement and Operate CRV.
- ✓ Important documents are:
 - ✓ Operations Manual
 - ✓ Implementation Plan
 - ✓ Common Package



04 Document Flow

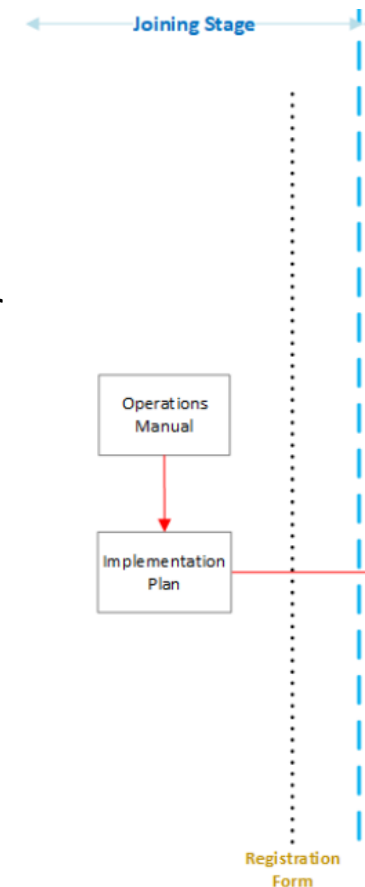


Document Flow



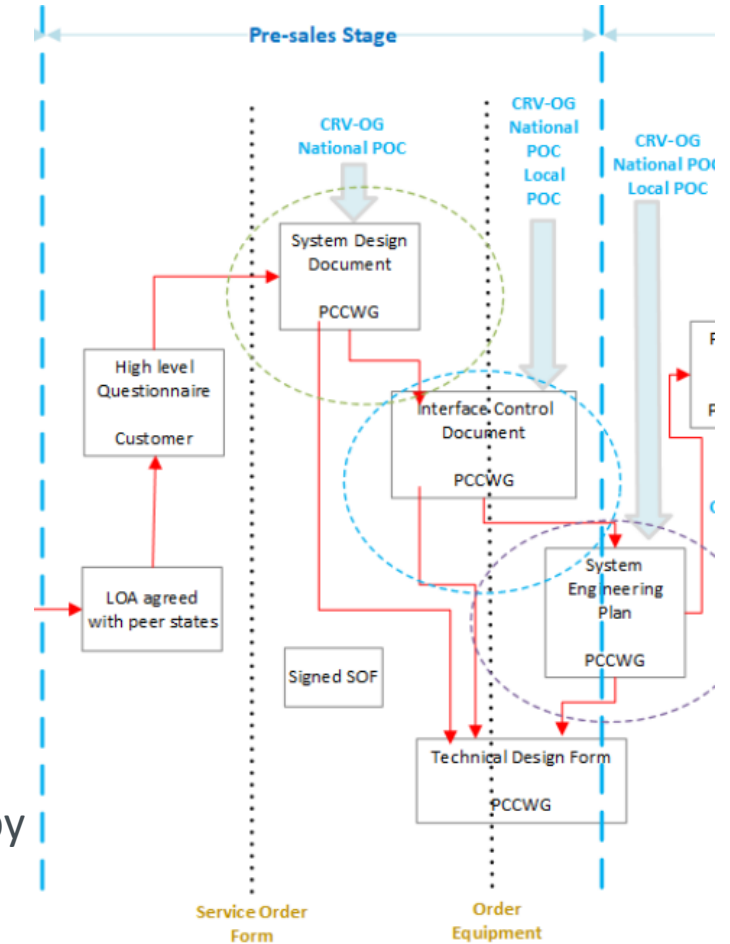
Joining Stage

- ✓ The first two documents you need are:
 - Operations Manual
 - Implementation Plan
- ✓ These layout the various processes and information you need to consider
- ✓ before engaging with the Service Provider or your peers.
- ✓ Some things to consider are:
 - Your IP address space use as this is State not User based.
 - Who are your National and Local Points of Contacts. The National Point of Contact is there for all CRV Users in your State.
 - Services being migrated over the CRV.
 - Current network connections.



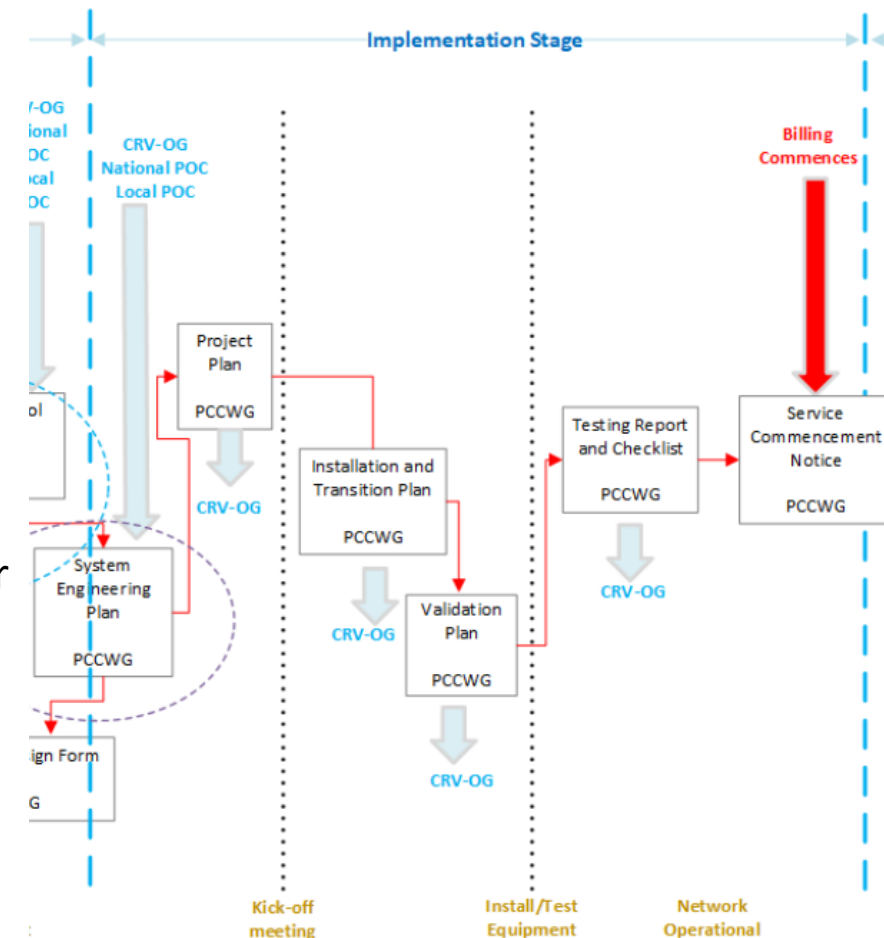
Pre-sales Stage

- ✓ The next critical step is a LOA with your peering states. You need to know what their plans are in joining the CRV are before you implement the CRV.
- ✓ Once you understand this, you can complete the High Level Questionnaire with PCCW.
- ✓ The High-Level Questionnaire describes:
 - ✓ The current environment
 - ✓ Services to be migrated
 - ✓ Connections to other users
 - ✓ Locations
 - ✓ Contacts details
- ✓ The System Engineering Plan (SEP) is the next output. This is informed by the survey, System Design Document (SDD) and the Interface Control Document (ICD). The SEP is the detail of the implementation.



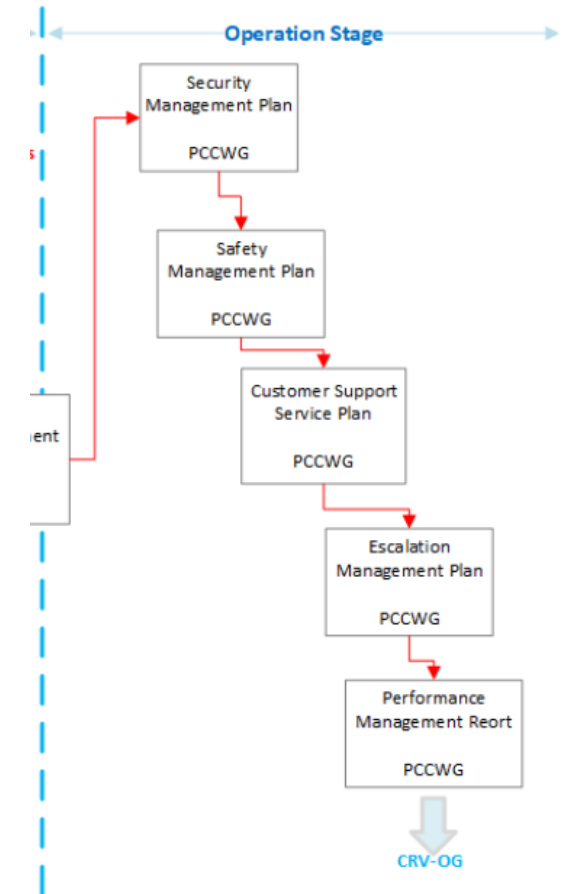
Implementation Stage

- ✓ Once the SEP is completed, PCCW will provide a Project Plan for the Implementation and Transition.
- ✓ The Implementation and Transition Plan, and the Validation Plan are Service Provider documents.
- ✓ Once the CRV Service Provider installation has been completed, they will carry out testing and provide these results with the Service Commencement Notice (SCN).
- ✓ At this point you now have three days to carry out tests with your peers before migrating services.
- ✓ Once those three days are up, billing will begin.



Operation Stage

- ✓ Congratulations and Welcome you now have a CRV connection and a member of the CRV OG.
- ✓ In this stage you might be migrating services or just operating.
- ✓ The documents shown here assist in the operations space.
- ✓ Who will also have the opportunity to join the Ad Hoc groups to further the CRV.



Thank You

