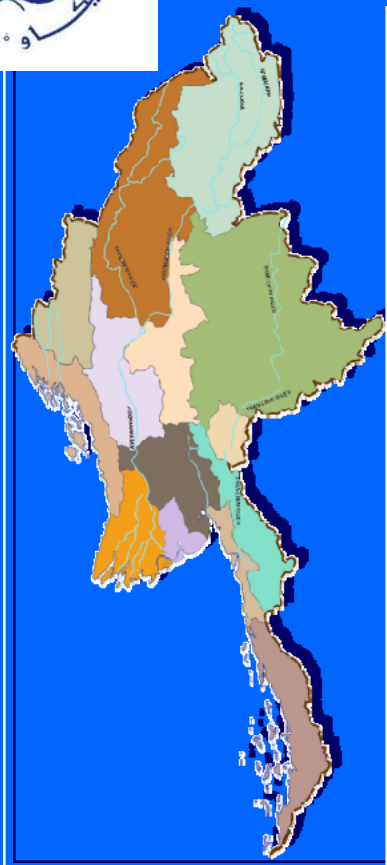# CASE STUDY ON ADS-B FACILITY

HISTORICAL BACK GROUND OF DCA , MYANMAR

Historical Background of DCA

❑ **DCA Organization was established soon after promulgation of**

> *Myanmar Aircraft Act 1934 and Myanmar Aircraft Rule 1937.*

❑ **Civil Aircraft Registry started on 1.4.1937**

> *aircraft bearing Registration Mark was XY-AAA.*

❑ **Due to second World War**

> *Civil Aviation activities in Myanmar was stopped from 1939 to 1942*

❑ **After the war on 16.12.1946**

> *Group Captain P. Holroyd Smith was acting as a Director of Civil Aviation on contract basis for four years up to 1952.*

❑ **During that period, Myanmar National under went training in UK for**

> *licenses in Crew, Engineers, and Air Traffic Controllers*

> *After achieving those licenses, they were working in our Department*

❑ **Air Registration Board (ARB) was also contracted to**

> *provide senior aircraft surveyor to administer airworthiness and flight operation matters up to 1962*

Historical Background of DCA

❏ **For radio communication and navigation matters**

> *International Air radio Limited (UK) was contracted from 1953 up to 1958*

> *to install and operate radio telecommunication and navigation network*

❏ **Myanmar professional nationals undertook responsibilities of**
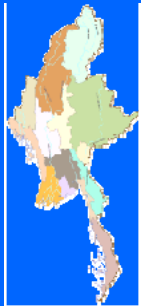
> **DCA since 1962**

CNS CAPABILITIES

CNS Facilities

- ❖ **9 VOR, 3 ILS/DME,**

- ❖ **HF 32 stations (2 International) / VHF 32 stations (2 International)**

- ❖ **AFTN Network (Direct Link) Yangon – Mandalay**
  Yangon – Kunming
  Yangon – Bangkok

- ❖ **ADS-C/CPDLC**

- ❖ **6 VSAT (Lashio. Mandalay, Pathein, Yangon, Myeik and Sittwe)**

- ❖ **3 MSSR (Yangon, Mandalay, Myeik) (from Thales)**

- ❖ **2 MSSR (Yangon, Mandalay) (from Alenia) as a back-up**
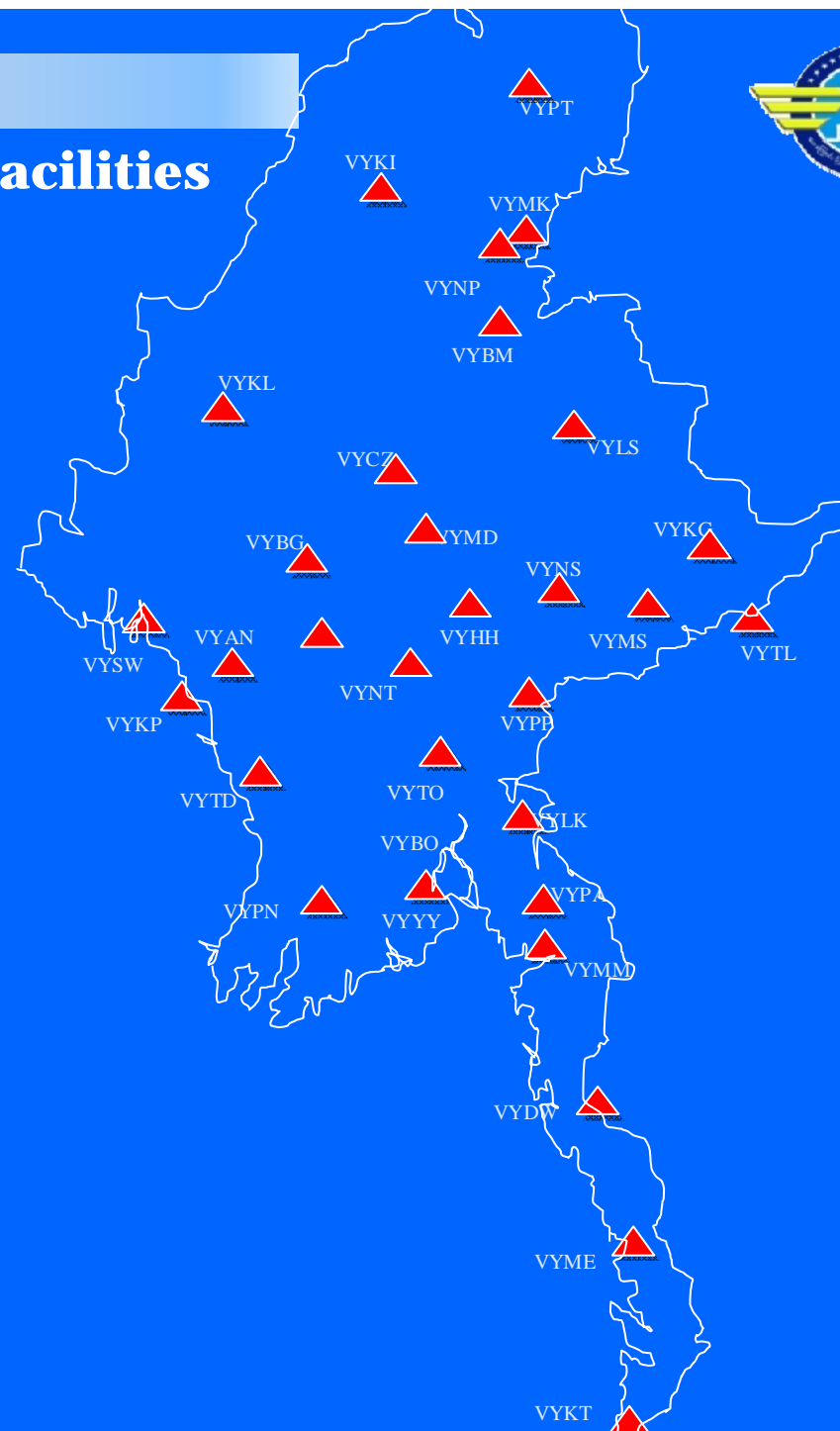
- ❖ **One Flight Calibration Unit**

1 . Communication Facilities

▲ **HF/VHF**
(airports)

VYPT
VYKI
VYMK
VYNP
VYBM
VYKL
VYLS
VYCZ
VYBG VYMD VYKG
VYNS
VYAN VYHH VYMS VYTL
VYSW VYNT
VYKP VYPP
VYTD VYTO
VYBO VYLK
VYPN VYPA
VYYY VYMM
VYDW
VYME
VYKT

Communication

KUM
ZPPP
(KUM)

VYLS

DAC

VYMD

VYSW

VSAT-RCAG
(channels
AFTN (replaced with
released from
AMHS in 2012)
Thaicom-5 Sat
DSC Phone
thru Aerothai)

KOL

YGN

VYPN

VYYY

For connection
with Thailand ,
V-SAT was planned
to change by
digital system

VYME

VTBB
BKK
(BKK)
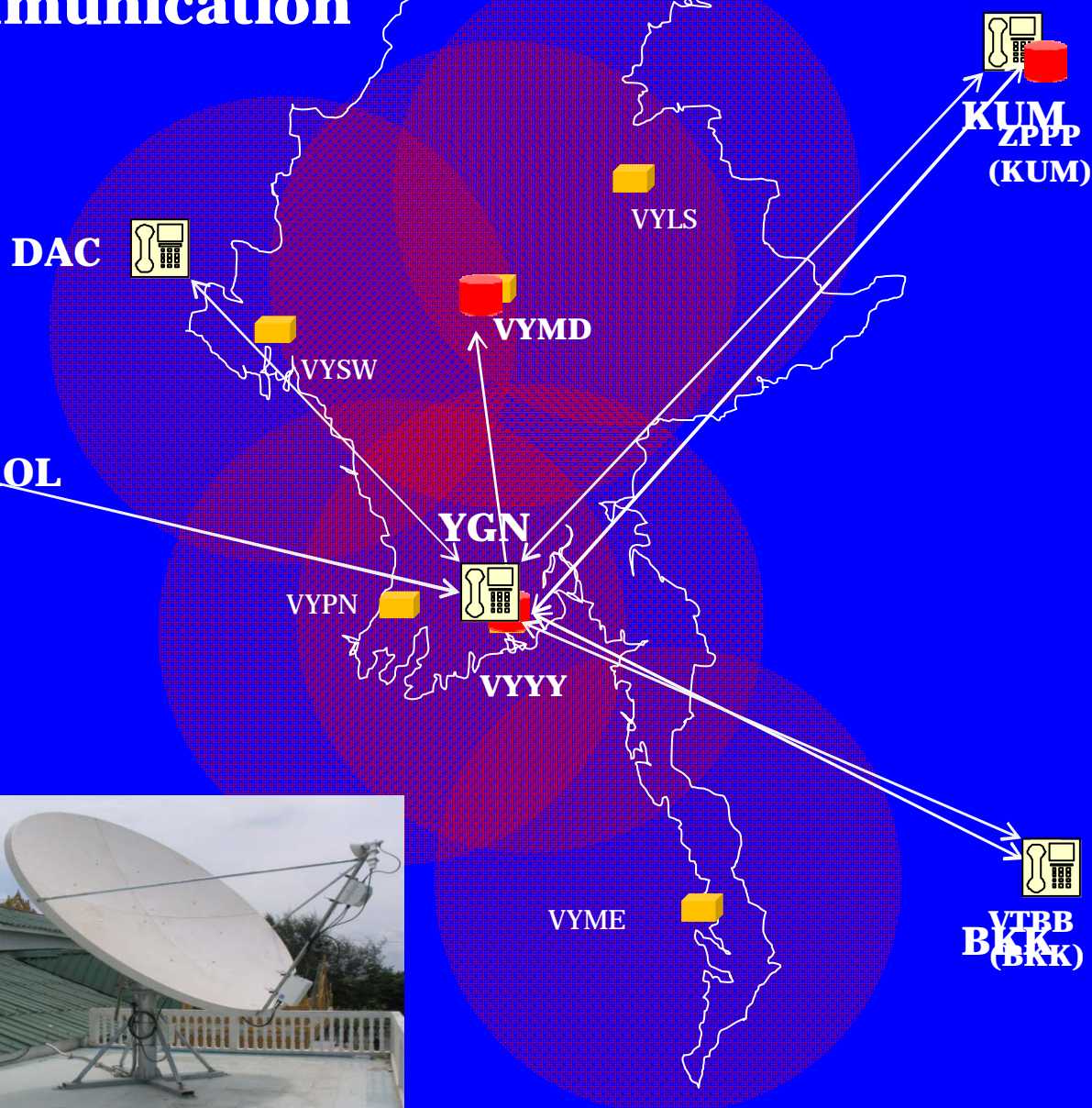
FANS-1/A   Facility
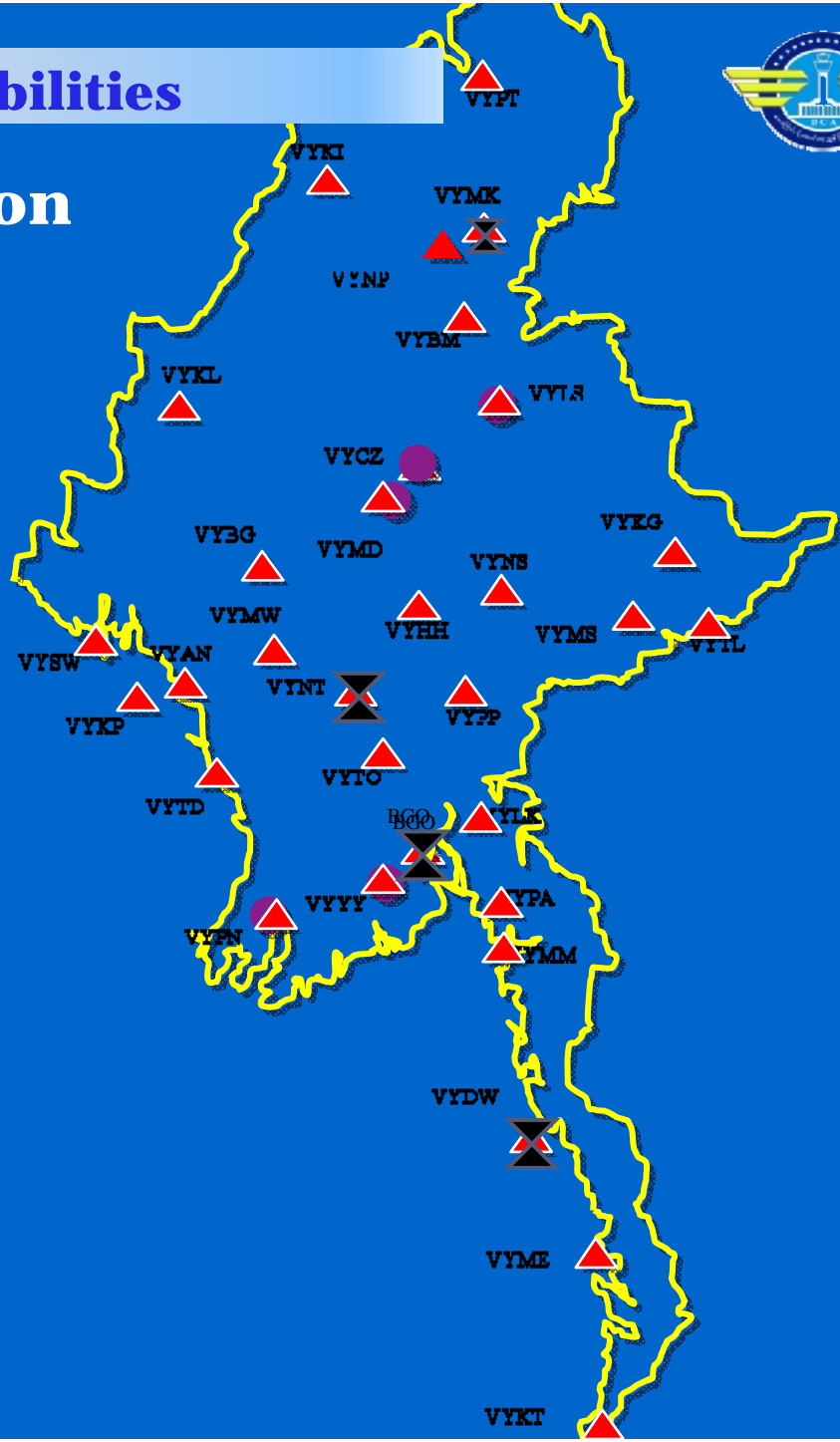
ADS-C / CPDLC system

- Stand alone system was installed since 1989

- Now NEW ADS-C/CPDLC system has already been

   purchased and integrated into Eurocat – C ATC Automation

(for FANS-1 data with new format was under processing with SITA)

2. Navigation

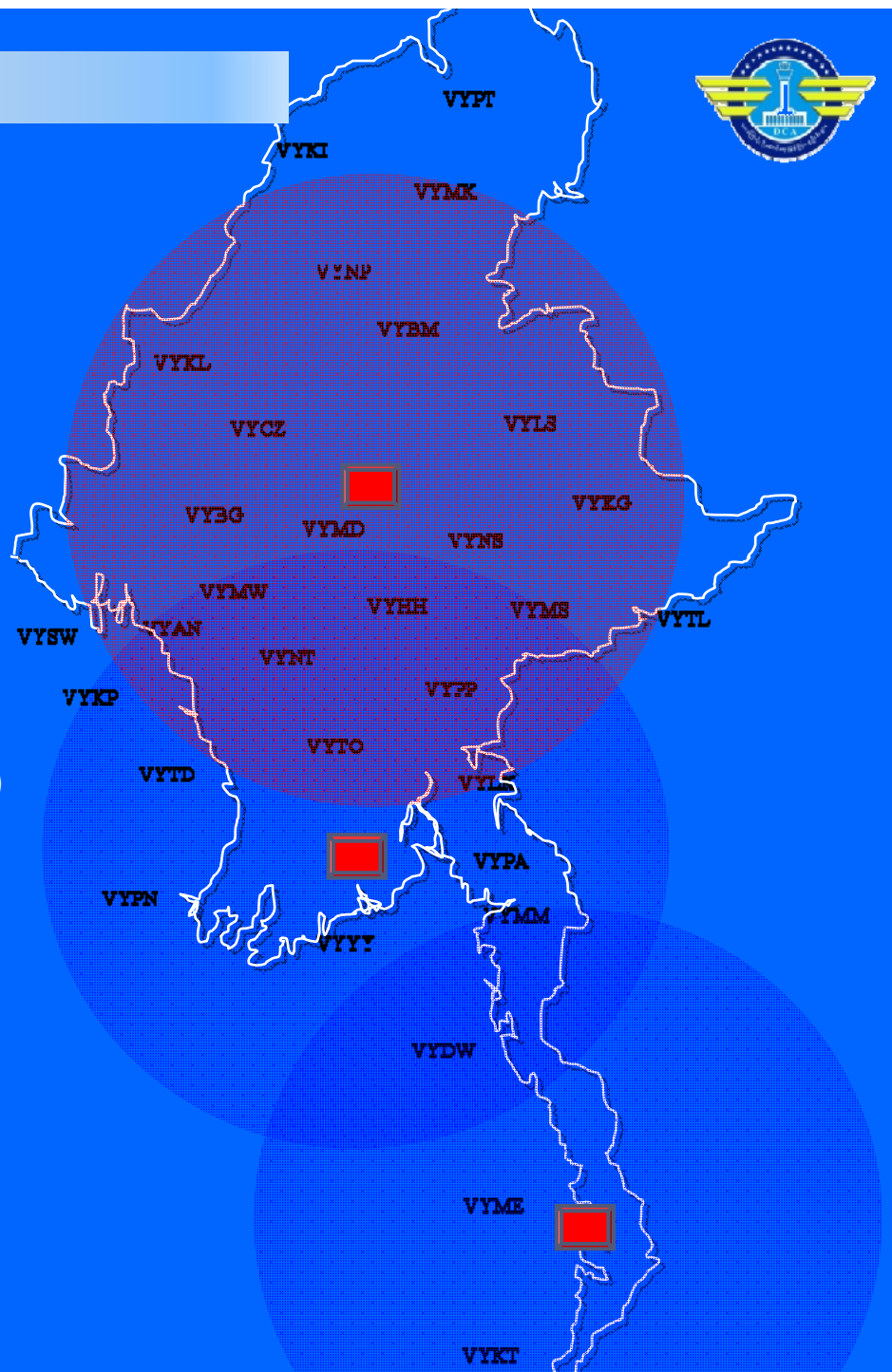**NDB Station**

CVOR/DME Station

DVOR/DME Station

3. Surveillance

- **Mandalay**

- **Yangon**

- **Myeik**

🟥 **3 MSSR for Enroute (Thales)**
2 MSSR (Alenia) as back-up
1 PSR for Terminal (Mandalay)

FIRs & AIRWAYS

ATS Routes	**20**
RNAV	**Route**
Conventional Route	**10**
Conditional Route	**1**

Adjacent FIRs

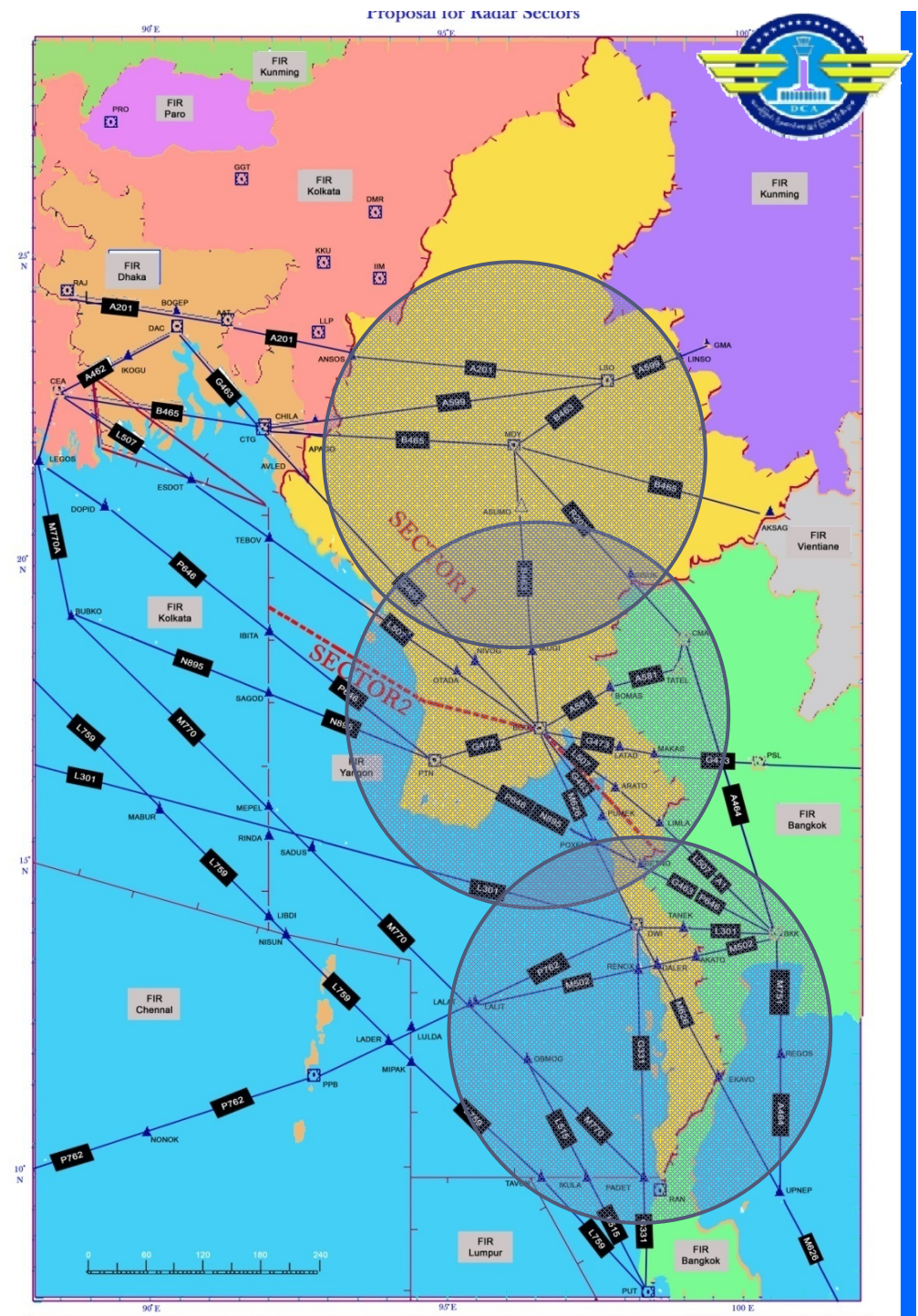|	
Kolkata	**FIR**
Chennai	**FIR**
Bangkok	**FIR**
Kunming	**FIR**
Dhaka	**FIR**
Vientiane	**FIR**

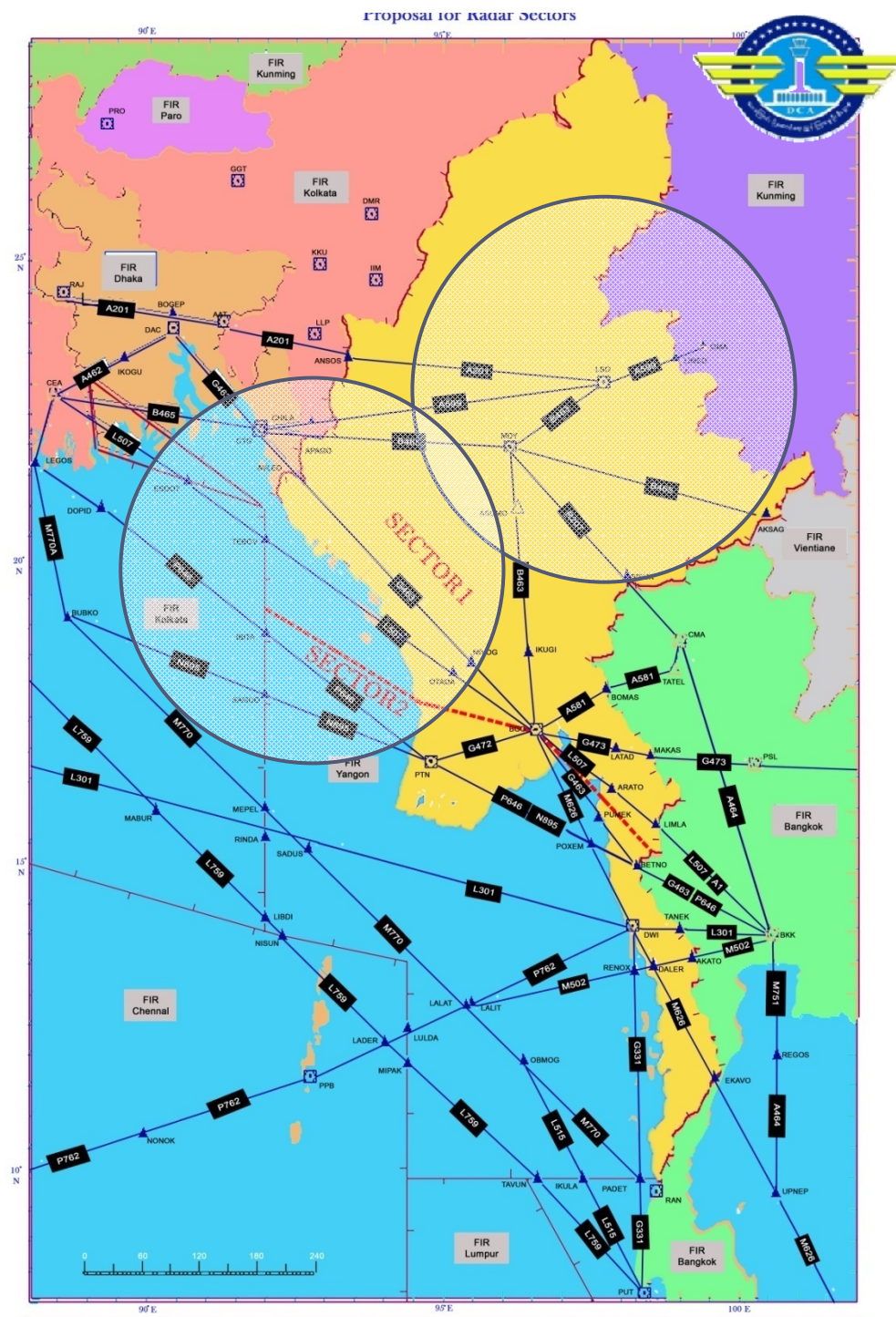

Proposal for Radar Sectors
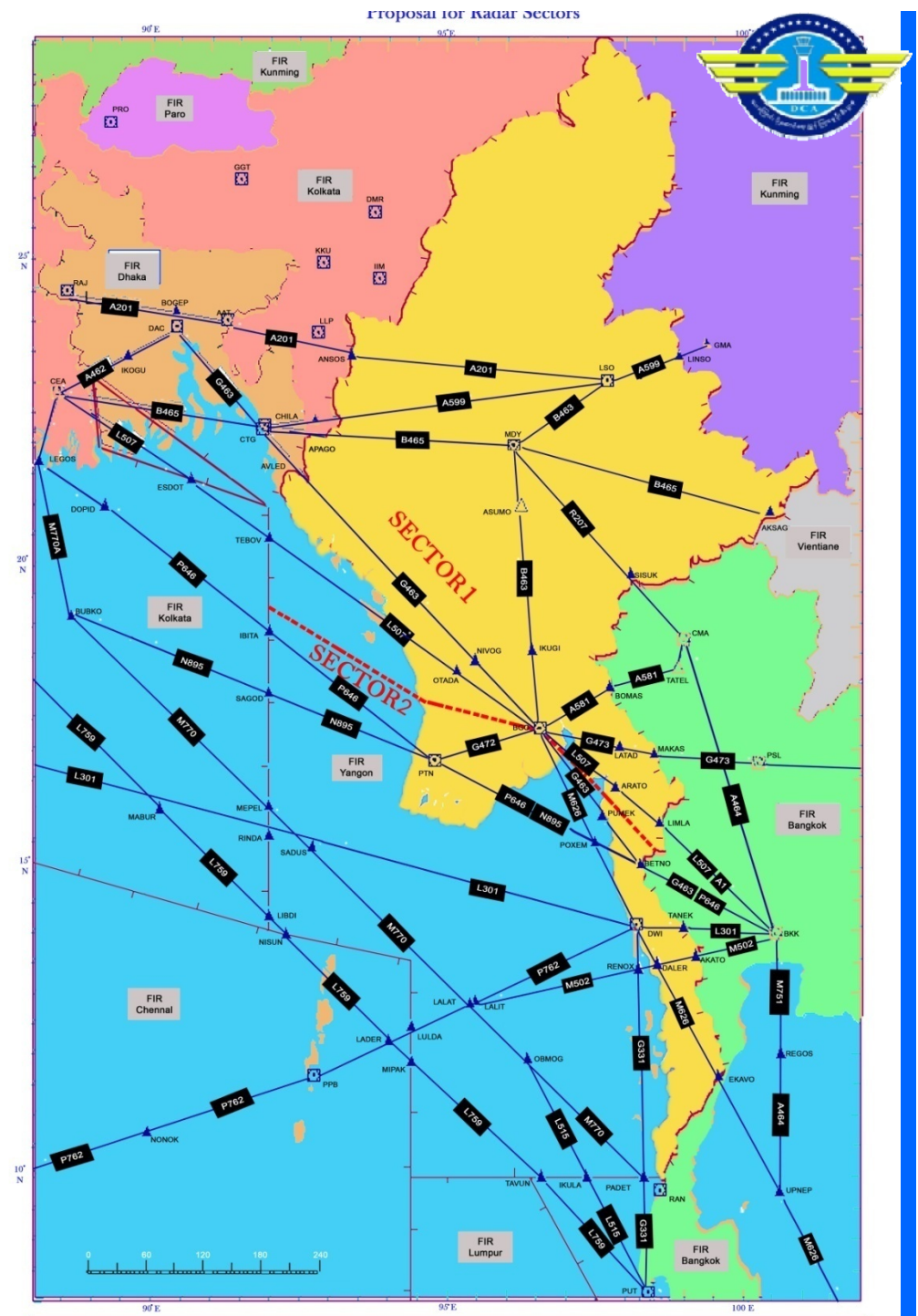
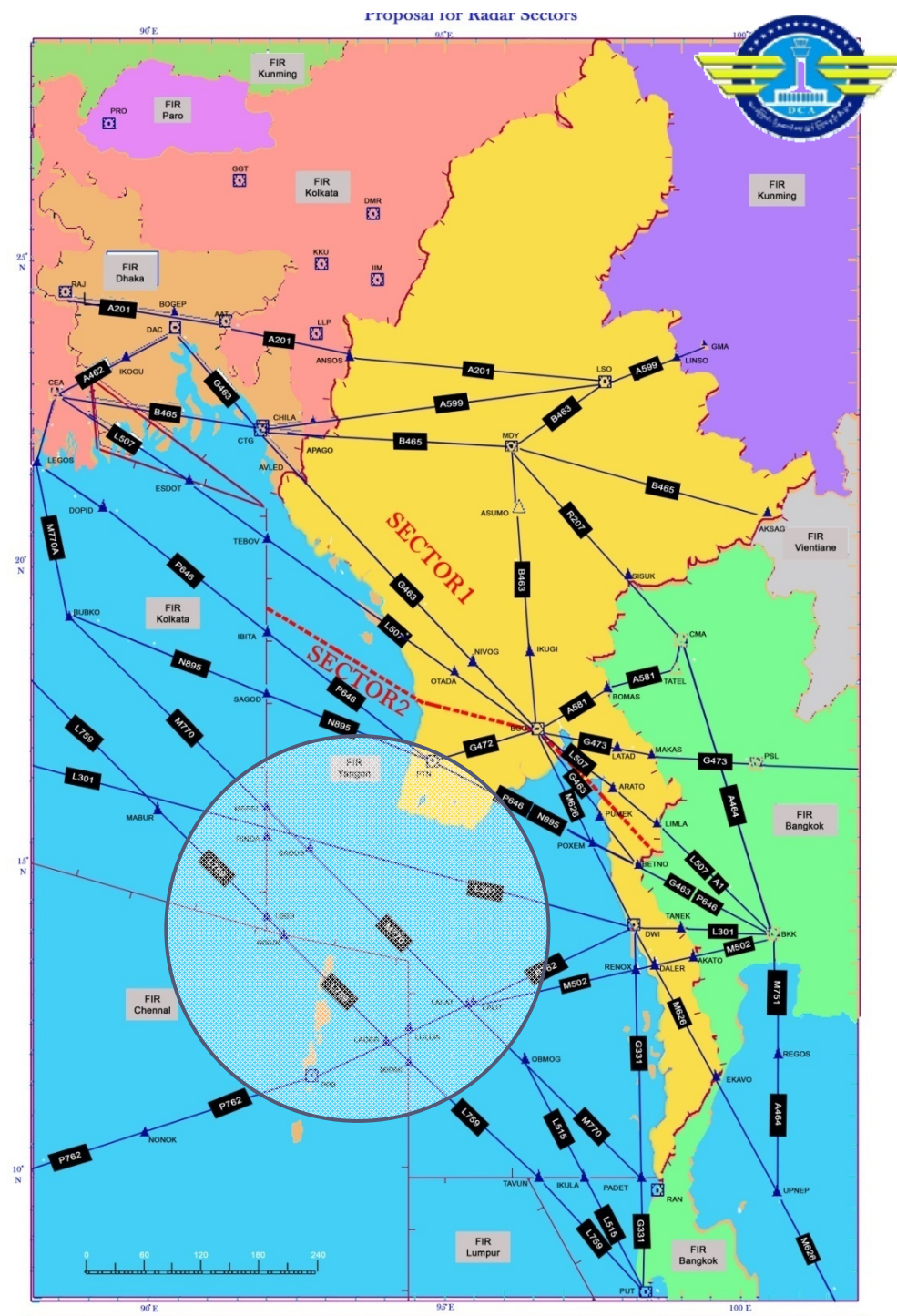# CASE STRDY ON ADS-B COVERAGE
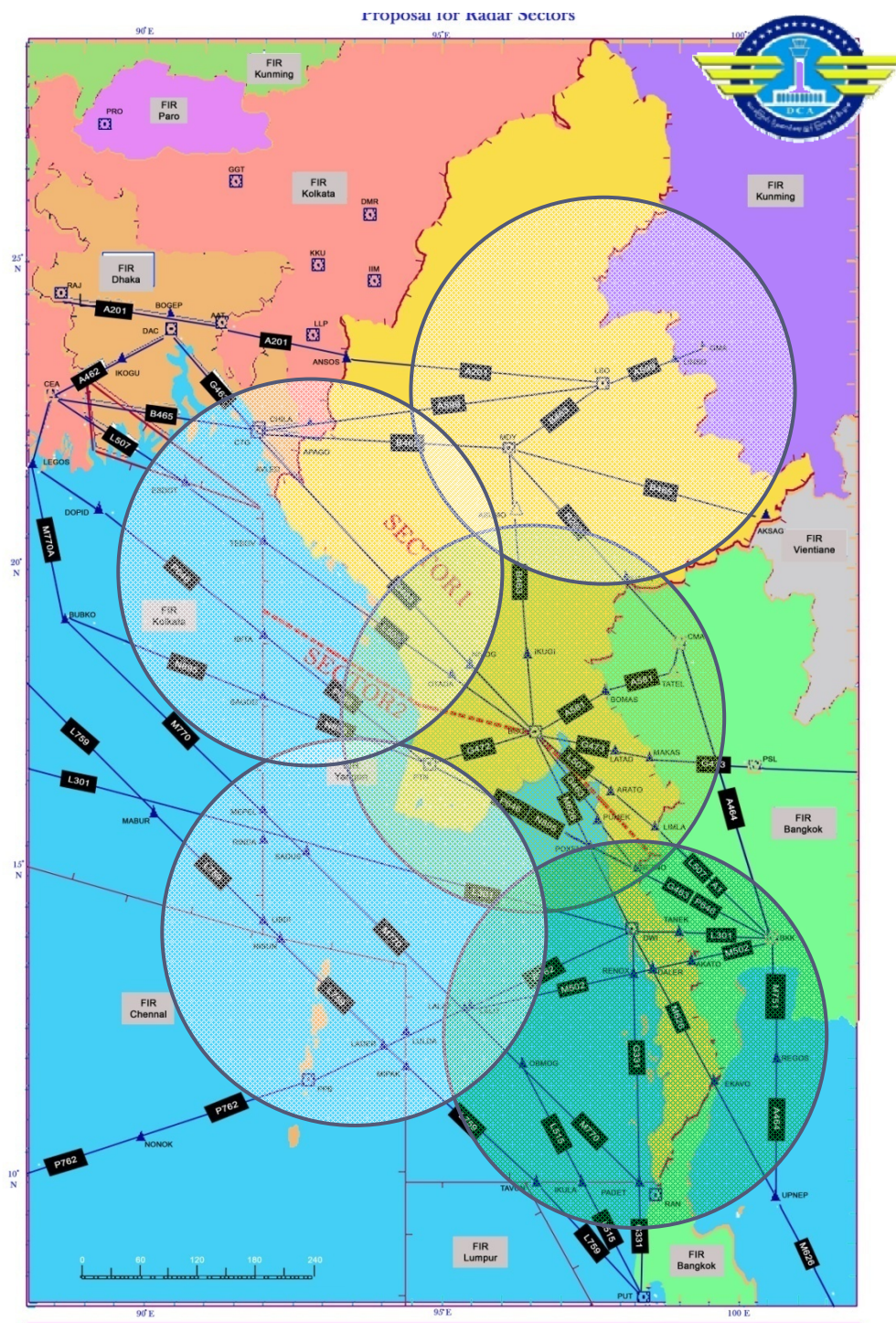
CASE STUDYING ON ADS-B COVERAGE

CASE STUDYING ON ADS-B COVERAGE

CASE STUDYING ON ADS-B COVERAGE

THANK YOU