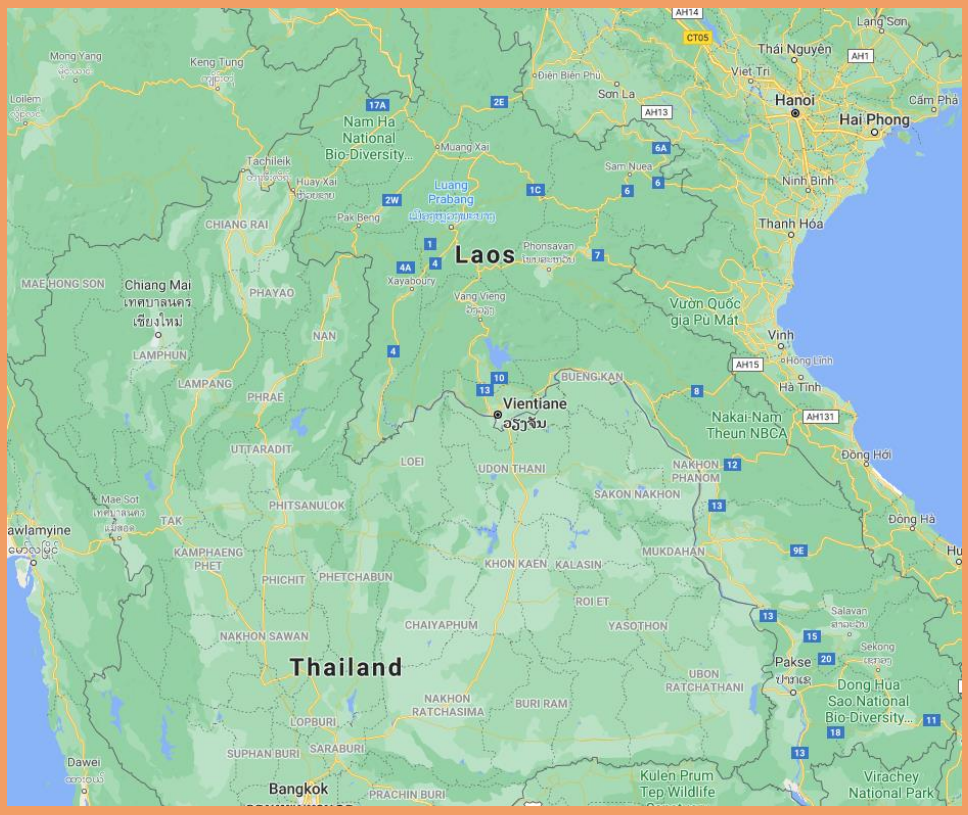
COMPILATION OF AGREED BAND PLANS, COORDINATION PARAMETERS AND COORDINATION PROCEDURE



JOINT TECHNICAL COMMITTEE ON COORDINATION AND ASSIGNMENT OF FREQUENCIES ALONG THAILAND – LAO PDR COMMON BORDER (JTC)

September 2023

COMPILATION OF AGREED BAND PLANS,

COORDINATION PARAMETERS

AND

COORDINATION PROCEDURE

JOINT TECHNICAL COMMITTEE (JTC) ON COORDINATION AND ASSIGNMENT
OF FREQUENCIES ALONG THAILAND – LAO PDR COMMON BORDER

September 2023

Document Change History

Version	Date	Key Changes
1.1	September 2023	Include: 1. Introduction 1.1 List of JTC Meetings 2. Agreed band plans 2.1 Broadcasting service 2.2 Common frequencies for use during emergency situation in HF, VHF and UHF bands 2.3 Mobile and Non-Broadcasting Services 3. Coordination parameters 4. Notification of frequency assignments

Abbreviations

3G	Third Generation mobile networks
ARFCN	Absolute Radio Frequency Channel Number
CDMA	Code Division Multiple Access
ERP	Effective Radiated Power
FDD	Frequency Division Duplex
GSM	Global System for Mobile communication
HF	High Frequency
HSPA	High Speed Packet Access
JTC	Joint Technical Committee on Coordination and Assignment of Frequencies along Thailand –Lao PDR Common Border Meeting
LTE	Long Term Evolution
LAO	Lao PDR
PSC	Primary Scrambling Code
PCI	Physical Cell Identity
SSB	Single Sideband
TDD	Time Division Duplex
THA	Thailand
UMTS	Universal Mobile Telecommunications System
UHF	Ultra High Frequency
VHF	Very High Frequency
WCDMA	Wideband Code Division Multiple Access

1 Contents

2 INTRODUCTION

The Joint Technical Committee on Coordination and Assignment of Frequencies along Thailand-Lao PDR Common Border Meeting or in short, JTC Meeting; was formed with an objective to manage coordination of radio spectrum usage at the common border areas of Thailand and Lao PDR. The first JTC Meeting was held on 7-9 May 2007 in Udon Thani, Thailand and the hosting of subsequent meetings was held on alternate basis between two countries.

Activities of the committee includes frequencies registration for stations along the designated areas, resolving reported interference cases, frequency planning for future services and harmonization of existing band plans. This is to ensure harmonized use of spectrum at border areas by efficient coordination of frequency spectrum among neighboring countries. All processes carried by this committee conform to the Constitution and Convention of the International Telecommunication Union (ITU) and its Radio Regulations.

JTC is also involved in reaching agreements on sharing of certain blocks of frequency spectrum that have been designated to be allocated to certain services so that these services do not interfere into each other at the border areas and the spectrum is shared as much as possible among 2 border countries on equitable basis, in line with the Constitution and Convention of the ITU.

At JTC-11 Meeting, it was agreed to have a common document consisting of agreed band plans, coordination zones and technical coordination parameters for all services, as a future reference, responsible persons were assigned for developing the compilation document.

This compilation document is intended to provide information of the JTC agreements between Thailand and Lao PDR with respect to frequency coordination and assignment along common border area. It covers agreed band plans, coordination parameters and registration and notification of frequency assignments for both telecommunication and broadcasting services. Portions of this document will be revised from time to time as a result of agreement from JTC Meetings.

2.1 LIST OF JTC MEETINGS

JTC	Date of Meeting	Venue
1	7-9 May 2007	Udon Thani, Thailand
2	1-2 April 2010	Luang Prabang, Lao PDR
3	25-27 April 2012	Khon Kaen, Thailand
4	24-26 September 2013	Champasak Province, Lao PDR
5	20-22 October 2014	Nakhon Phanom, Thailand
6	21-23 September 2015	Luang Prabang, Lao PDR
7	20-22 September 2016	Loei, Thailand
8	11-13 September 2017	VangVieng, Lao PDR
9	10-12 October 2018	Nan, Thailand
10	16-18 October 2019	Vientiane Capital, Lao PDR
11	22-24 November 2022	Mukdahan, Thailand

3 AGREED BAND PLANS

3.1 BROADCASTING SERVICE

3.1.1 SOUND BROADCASTING SERVICES

Band plan for FM Radio (87 – 108 MHz) as agreed at JTC-11

Band plan : N/A

Technology : FM Radio

Coordination parameters : N/A

Coordination type : Notification*

Coordination distance : Within coordination zone
(30 km from the borderline as agreed at JTC-3 and JTC-5)

* At JTC-11, Thailand and Lao PDR agreed as follows:

1) If either country wishes to add a new station but having limitation on vacant frequency, both countries would discuss and endeavor to find the solution or mitigation techniques, for example, reducing power, changing antenna pattern or other techniques for both existing and new stations.

2) The existing stations of both countries shall be submitted for frequency notification. If any changes were to occur in the future, the information would be exchanged through contact person before the changes happen and before submitting the new frequency notification.
3) Item 1) and 2) would apply only to the main FM stations which had obtained the spectrum licenses (trial FM stations would be excluded).

3.1.2 TELEVISION BROADCASTING SERVICE

Band plan as agreed at JTC-8:

Frequency Channel	Frequency (MHz)		Allocated to
	Lower	Upper	
21	470	478	Lao PDR
22	478	486	Thailand
23	486	494	Lao PDR
24	494	502	Thailand
25	502	510	Lao PDR
26	510	518	Thailand
27	518	526	Lao PDR
28	526	534	Thailand
29	534	542	Lao PDR
30	542	550	Thailand
31	550	558	Lao PDR
32	558	566	Thailand
33	566	574	Lao PDR
34	574	582	Thailand

Frequency Channel	Frequency (MHz)		Allocated to
	Lower	Upper	
35	582	590	Lao PDR
36	590	598	Thailand
37	598	606	Lao PDR
38	606	614	Thailand
39	614	622	Lao PDR
40	622	630	Thailand
41	630	638	Lao PDR
42	638	646	Thailand
43	646	654	Lao PDR
44	654	662	Thailand
45	662	670	Lao PDR
46	670	678	Thailand
47	678	686	Lao PDR
48	686	694	Thailand

Band plan : Band Segmentation

Technology : Digital TV

Coordination parameters : N/A

Coordination type : Notification (as agreed at JTC-6)

Coordination distance : Within coordination zone
(30 km from the borderline as agreed at JTC-3 and JTC-5)

3.2 COMMON FREQUENCIES FOR USE DURING EMERGENCY SITUATION IN HF, VHF AND UHF BANDS

Agreed at JTC-7:

HF/SSB band

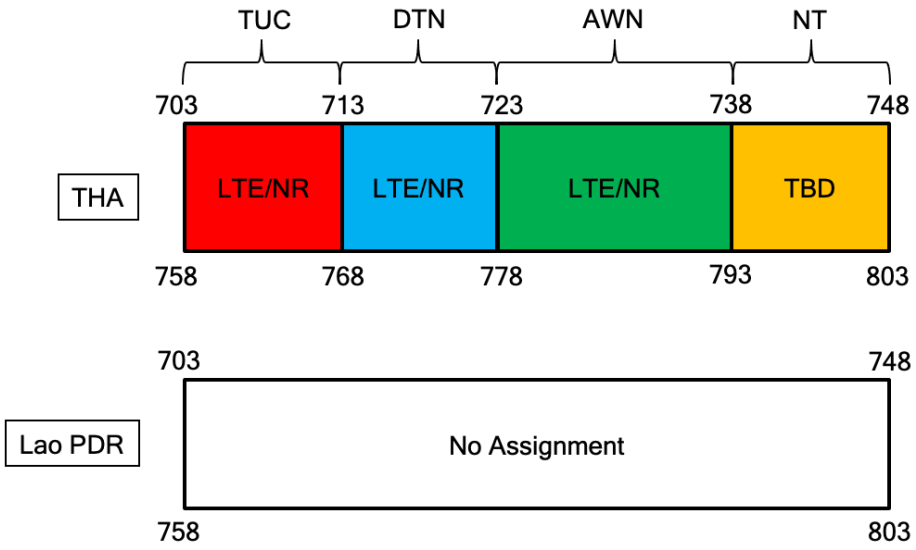
Frequency Band	Channel	Bandwidth
3 MHz	3341 kHz	25 kHz
	3815 kHz	25 kHz
	3825 kHz	25 kHz
6 MHz	6314 kHz	25 kHz
	6341.7 kHz	25 kHz
	6450.1 kHz	25 kHz
	6771 kHz	25 kHz

VHF and UHF bands

Frequency Band	Channel	Bandwidth
VHF/FM	163.175 MHz	25 kHz

3.3 MOBILE AND NON-BROADCASTING SERVICES

3.3.1 BAND 700 MHz



Agreement

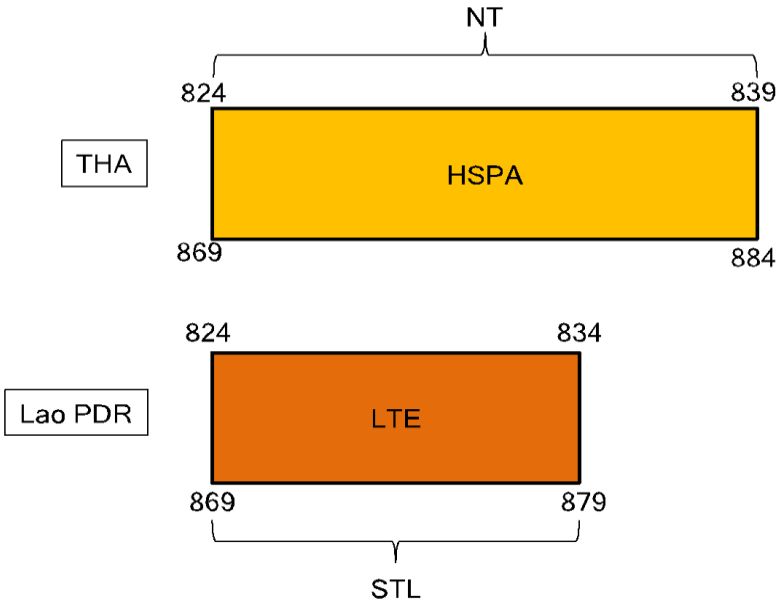
- No agreement from both sides.

Thai Mobile Operators agreed to conduct optimization on their 700 MHz networks with the aim to satisfy the following signal levels:

	Other Areas	**Specific Areas** **HuayXai - Chiang Khong** **Ton Pheung – Chiang Saen**
Signal level	LTE/NR = - 102 dBm	LTE/NR = - 99 dBm
Distance	1km from reference line	700m from reference line

3.3.2 BAND 850 MHz

Band plan as agreed at JTC-11:

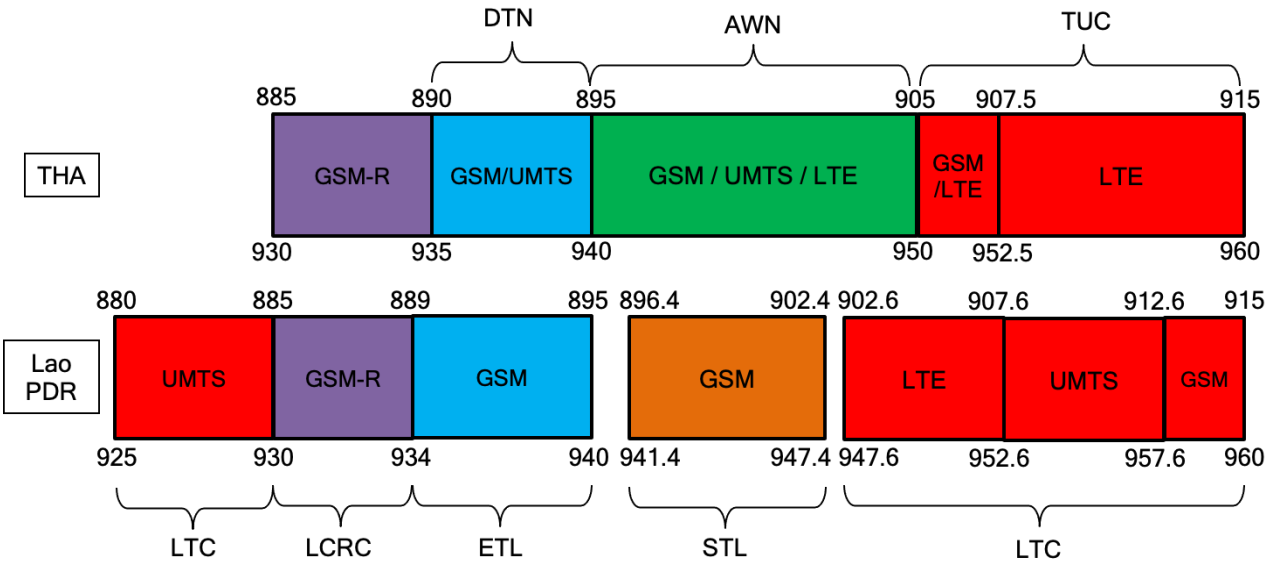


Agreement

	Other Areas	**Specific Areas** **HuayXai - Chiang Khong** **Ton Pheung – Chiang Saen**
Signal level	HSPA/UMTS/LTE = - 100 dBm	HSPA/UMTS/LTE = - 97 dBm
Distance	1km from reference line	700m from reference line

3.3.3 BAND 900 MHz

Band plan as agreed at JTC-11:



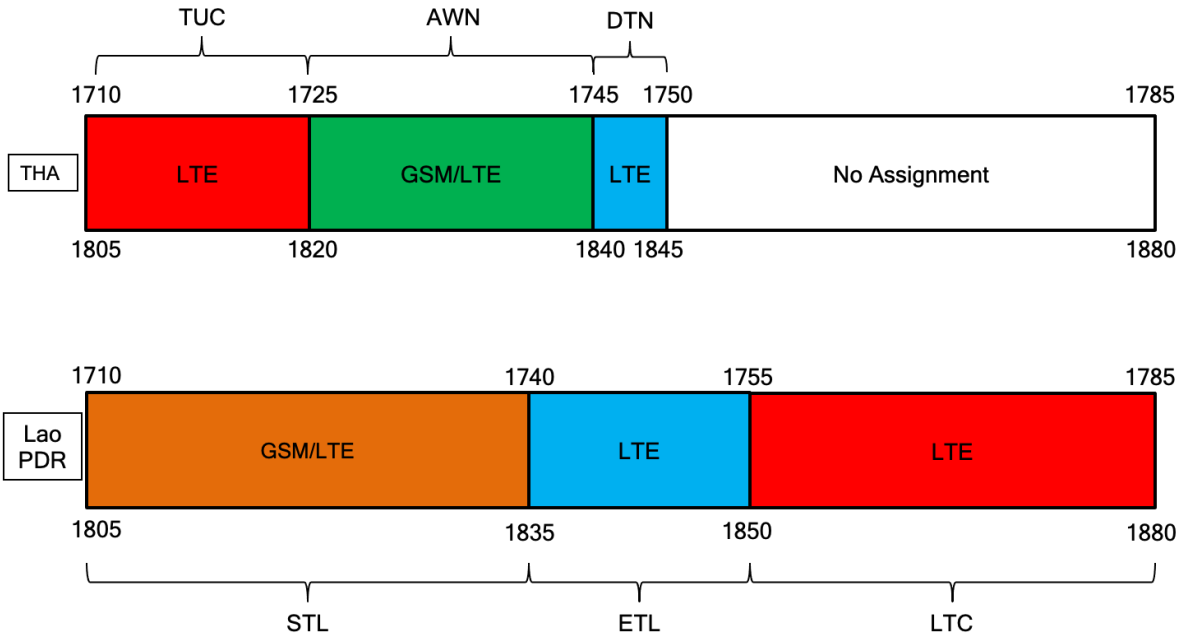
Agreement

	Other Areas	**Specific Areas** **HuayXai - Chiang Khong** **Ton Pheung – Chiang Saen**
Signal level	GSM = - 85 dBm	GSM = - 82 dBm
Signal level	UMTS/LTE = - 100 dBm	UMTS/LTE = - 97 dBm
Distance	1km from reference line	700m from reference line

Thai Mobile Operator	Lao PDR Mobile Operator	Agreements
DTN	ETL	Between GSM Technology Use ARFCN number DTN: 1,2,22-24 ETL: 1-30 UMTS Technology DTN uses all PSC as ETL does not use UMTS. Between UMTS and GSM Use agreed signal threshold level
AWN	STL	Between GSM Technology Use ARFCN number AIS : 26-27,73 AIS : 74 (NB-IoT) STL: 32-61 LTE Technology AWN uses all PCI as STL does not use LTE. Between GSM and LTE Use agreed signal threshold level
AWN	LTC	Between GSM Technology LTC does not use GSM LTE Technology Use PCI number AWN: 0-251 LTC: 252-503 Between GSM and LTE Use agreed signal threshold level
TUC	LTC	Between GSM Technology Use ARFCN number TUC : BCCH 76-87 LTC : BCCH 113-124 TUC&LTC (TCH 88-112 will be used in border areas) LTE Technology Use PCI number TUC: 0-251 LTC: 252-503 Between GSM and LTE Use agreed signal threshold level

3.3.4 BAND 1800 MHz

Band plan as agreed at JTC-11:



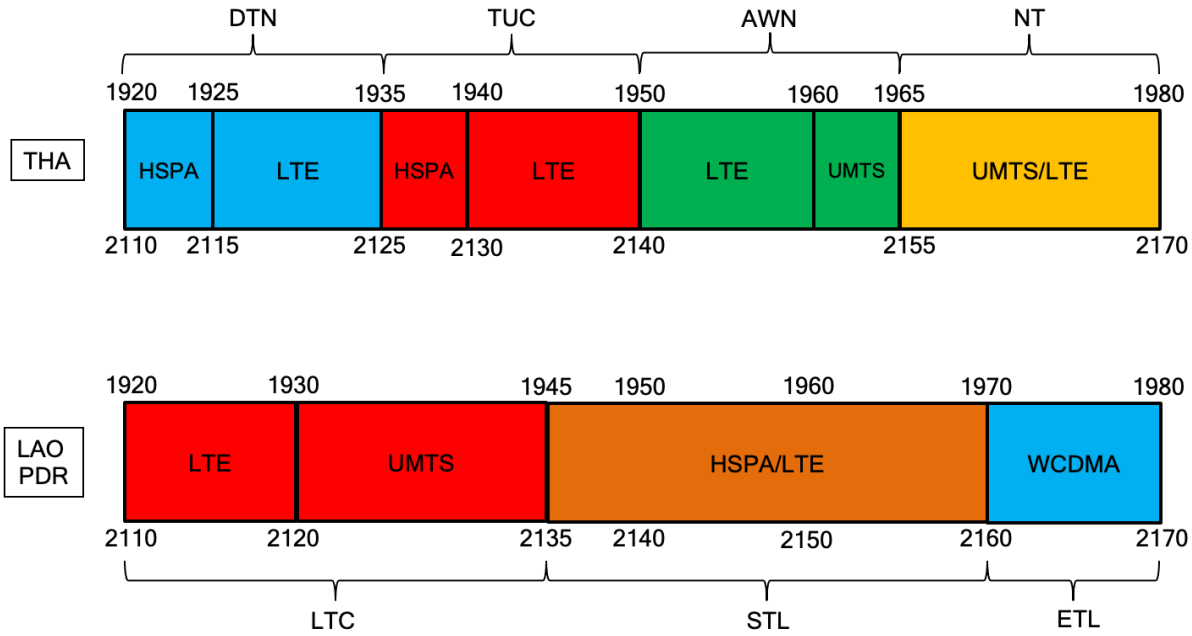
Agreement

	Other Areas	**Specific Areas** **HuayXai - Chiang Khong** **Ton Pheung – Chiang Saen**
Signal level	GSM = - 95 dBm	GSM = - 92 dBm
Signal level	LTE = - 100 dBm	LTE = - 97 dBm
Distance	1km from reference line	700m from reference line

Thai Mobile Operator	Lao PDR Mobile Operator	Agreements
TUC	STL	<u>Between LTE Technology</u> Use PCI number TUC: 0-251 STL: 252-503 <u>Between LTE and GSM</u> Use agreed signal threshold level
AWN	STL	<u>Between LTE Technology</u> Use PCI number AWN: 0-251 STL: 252-503 <u>Between LTE and GSM</u> Use agreed signal threshold level
AWN	ETL	<u>Between LTE Technology</u> Use PCI number AWN: 0-251 ETL: 252-503 <u>Between LTE and GSM</u> Use agreed signal threshold level
DTN	ETL	<u>Between LTE Technology</u> Use PCI number DTN: 0-251 ETL: 252-503

3.3.5 BAND 2100 MHz

Band plan as agreed at JTC-11:



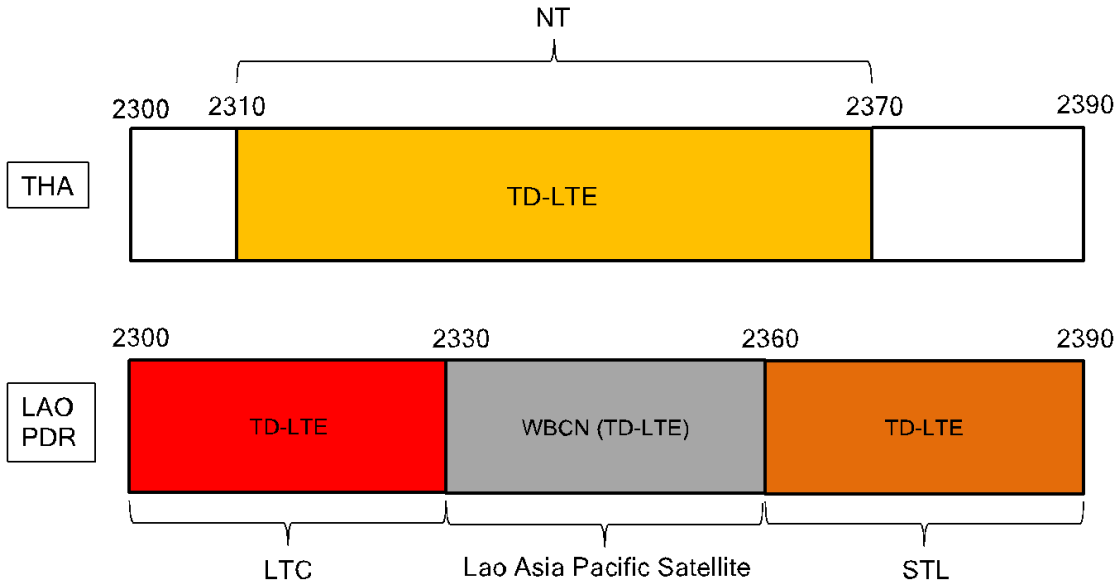
Agreement

	Other Areas	**Specific Areas** **HuayXai - Chiang Khong** **Ton Pheung – Chiang Saen**
Signal level	UMTS/LTE = - 100 dBm	UMTS/LTE = - 97 dBm
Distance	1km from reference line	700m from reference line

Thai Mobile Operator	Lao PDR Mobile Operator	Agreements
DTN	LTC	<u>Between HSPA technology</u> Use PSC number Thai mobile operators: 0-255 Lao PDR mobile operators: 256-511 <u>Between LTE Technology</u> Use PCI number Thai mobile operators: 0-251 Lao PDR mobile operators: 252-503 <u>Between LTE and HSPA technology</u> Use agreed signal threshold level
TUC	LTC	
TUC	STL	
AWN	STL	
NT	STL	
NT	ETL	

3.3.6 BAND 2300 MHz

Spectrum arrangement for 2300 MHz as agreed at JTC-10:

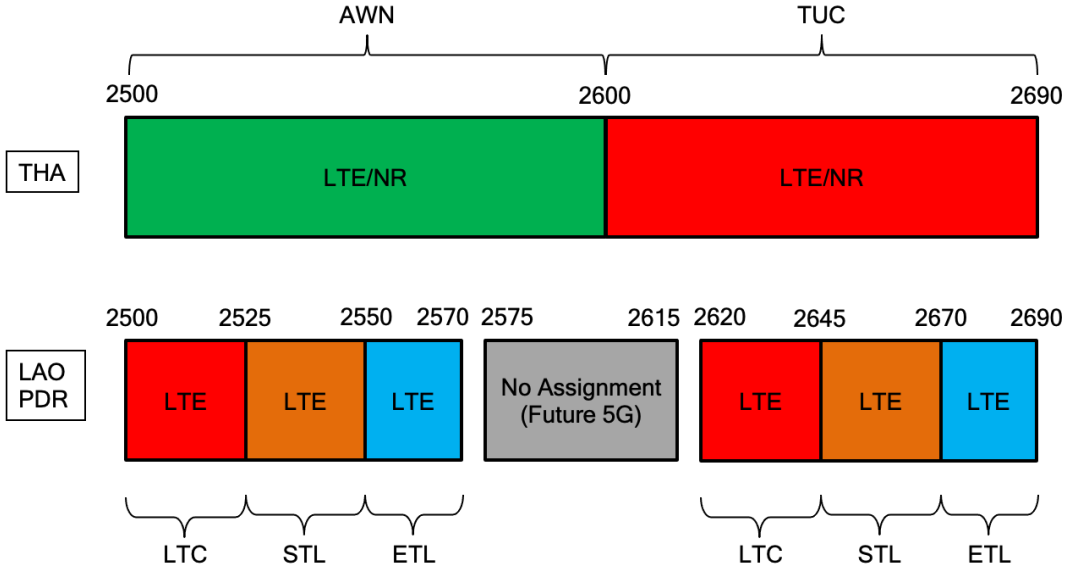


Agreement

Thai Mobile Operator	Lao PDR Mobile Operator	Agreements
NT	LTC	Provisional signal threshold level -100 dBm at 1km from reference line PCI number NT: 0-251 LTC, Lao Asia Pacific Satellite, STL: 252-503
NT	Lao Asia Pacific Satellite	
NT	STL	

3.3.7 BAND 2600 MHz

Spectrum arrangement for 2600 MHz as agreed at JTC-11:



Agreement

Mobile operators from both sides agreed to first conduct the pilot test at Nong Khai – Vientiane area, analyze the results, and if the signal level could be successfully implemented, both sides would further adjust the signal level in other areas.

Signal level less than	Measured at
-108 dBm	On tower in front of antenna
-120 dBm	On ground

4 FREQUENCY NOTIFICATION

FREQUENCY NOTIFICATION GUIDELINE (JTC-5)

- Introduction

For the effective use of frequency along Thailand – Lao PDR common border area, Thailand proposes a frequency notification guideline to be implemented along the common border. Information concerning a frequency assignment shall be registered in accordance.

- Notification of Frequency

Frequencies used along the common border areas between Thailand and Lao PDR which may cause mutual interference shall, in normal circumstances, be notified within coordination zone.

- Mechanism for Frequency Notification

JTC of each party shall be the functional body for the frequency Notification and shall set up its own secretariat to be responsible for notification work.

4.1 Notification

4.1.1 This type of coordination applies to usage of any frequency along the common border area that may cause interference which both sides agreed to notify.

4.1.2 All frequency assignments submitted for notification will be acknowledged by the responsible person of each party.

4.1.3 Submission of frequency assignment outside the agreed coordination zone/distance should be avoided. In such case, each side should inform each other and return the submission.

4.1.4 The notified frequency assignment does not establish priority for interference protection; however, interference resolution is to be handled on case by case basis.

4.2 Notification Form

No.	Field Name	No.	Field Name
1	MTG_NO	19	A5_RADPATT
2	APPDATE	20	S7_RADIUS
3	OAC	21	F1_TXRX
4	CLIENT	22	F2_POLCODE
5	S1	23	F3_TXASFRE
6	S2	24	F4_TXCRFRE
7	S_5LAT	25	F5_RXASFRE
8	S_5LONG	26	F6_RXCRFRE
9	S_6LATLINK	27	F8_ITUCODE
10	S_6LONGLINK	28	F9_STCODE
11	S6LINK_LOC	29	F10_HOUR
12	A1_AGL_M	30	T1_BW
13	A1_AMSL_M	31	T3_RFOPPOW
14	A2_GAIN_DB	32	T5_TOTALLO
15	A3_AZIMUTH	33	T6_RAD_PWR
16	A8_ELEVATI	34	APPROVAL_DATE
17	A6_MFR	35	PCI_PSC
18	A7_MODEL	36	REMARKS

4.3 Explanatory Notes to the Notification Formats

DATA ITEM	DATA NAME	FIELD NAME	CODE	DESCRIPTION
1	JTC Meeting Number	MTG_NO	JTC-XX	Number of JTC Meeting that approves frequency registration records e.g. JTC-11
2	Approval Date	APPDATE	DD/MM/YYYY	Date of the frequency registration records approval e.g. DDMMMYYYY
3	Operating Administration	OAC	NBTC	National Broadcasting and Telecommunications Commission
			MTC	Ministry of Technology and Communications
4	Client Name	CLIENT	-	Full name of applicant
5	Station Type	S1	10	Land/Fixed Station (Non-Microwave)
			11	Microwave Earth Station
			12	Microwave Fixed Station
			20	Land Mobile Station (Non-Microwave)
6	Station Name	S2	-	Name of the locality of the station
7	Station Coordinates Latitude	S_5 LAT	XXXXXXN	Latitude and Longitude of the station Mobiles-to-mobiles communication: Latitude and Longitude of the centre of coverage is to be given Mobiles–to-base stations communication: Latitude and Longitude of the base station is to be given Lat(N/S) Long(E/W)
8		S_5 LONG	XXXXXXXE	

DATA ITEM	DATA NAME	FIELD NAME	CODE	DESCRIPTION
				deg (00-90) deg (000-180) min (00-59) min (00-59) sec (00-59) sec (00-59)
9	Link Coordinates Latitude	S_6 LATLINK	XXXXXXN	Microwave Link: Latitude and Longitude of the target of the main beam link (the receiving station's coordinates or a geographic point) Lat(N/S)Long(E/W) deg (00-90) deg (000-180) min (00-59) min (00-59) sec (00-59) sec (00-59)
10	Link Coordinates Longitude	S_6 LONG LINK	XXXXXXXE	
11	Link Location	S6LINK_LOC		Name of the geographic location where the radio link terminates
12	Height Above Ground (m)	A1_AGL_M	X.XX	Height of the antenna above ground level at the location e.g. 0.00
13	Antenna Height AMSL (m)	A1_AMSL_M	X.XX	Height of the antenna above mean sea level (= A1_AGL_M + S8_AMSL_M) e.g. 0.00
14	Gain (dB)	A2_GAIN_DB	X.XX	Maximum radiation to that of a reference antenna for equal power (Ratio of radiation) e.g. 0.00
15	Azimuth (deg)	A3_AZIMUTH	X.XX	a) Direction to which the antenna point, measured at an angle clockwise from true North in degrees b) Non-directional antenna/Omni: 0.0 is to be indicated e.g. 0.00

DATA ITEM	DATA NAME	FIELD NAME	CODE	DESCRIPTION
16	Elevation Angle (deg)	A8_ELEVATI	X.XX	Microwave Earth Stations and Microwave Fixed Stations: from the horizontal plane, the angle of the antenna which provide maximum radiation to the target (endpoint) e.g. 0.00
17	Manufacturer	A6_MFR	-	Name of the manufacturer of the antenna
18	Model Code	A7_MODEL	-	Model number of the antenna provided by the manufacturer
19	Radiation Pattern	A5_RADPATT	-	Radiation Patterns are diagrammatical representations of the distribution of radiated energy into space, as a function of direction.
20	Radius (km)	S7_RADIUS	X.XX	Nominal radius of the circular transmitting area e.g. 0.00
21	Tx/Rx Indicator	F1_TXRX	1	Transmits only (TX)
			2	Receives only (RX)
			3	Transmits and Receives (TR)
22	Polarization	F2_POLCODE		Types of Polarization
			C	Circular
			CL	Circular Left Polarized
			CR	Circular Right Polarized
			D	Dual Polarized
			E	Elliptical Polarized
			H	Horizontal Polarized

DATA ITEM	DATA NAME	FIELD NAME	CODE	DESCRIPTION
			HV	Horizontal/ Vertical
			L	Linear Polarized
			M	Mixed
			O	Other (unspecified polarization)
			R	Rotating
			SL	Slant Left Polarized
			SR	Slant Right Polarized
			V	Vertical Polarized
23	Tx Assigned Frequency (MHz)	F3_TXASFRE	X.XXXX	Frequency assigned to the transmitting station e.g. 0.0000
24	Tx Carrier Frequency (MHz)	F4_TXCRFRE	X.XXXX	a) Frequency on which the signal is modulated to facilitate transmission b) To be provided only if it is different from the assigned frequency e.g. 0.0000
25	Rx Assigned Frequency (MHz)	F5_RXASFRE	X.XXXX	Frequency assigned to the receiving station e.g. 0.0000
26	Rx Carrier Frequency (MHz)	F6_RXCRFRE	X.XXXX	Frequency on which the signal is modulated to facilitate reception of the transmission e.g. 0.0000
27	ITU Service Code	F8_ITUCODE	AFX	Aeronautical Fixed
			AMR	Aeronautical Mobile-Satellite(R)

DATA ITEM	DATA NAME	FIELD NAME	CODE	DESCRIPTION
			AMS	Aeronautical Mobile-Satellite
			AMX	Aeronautical Mobile
			ARS	Aeronautical Radionavigation-Satellite
			ARX	Aeronautical Radionavigation
			ATX	Amateur
			ATS	Amateur-Satellite
			BCS	Broadcasting-Satellite
			BCX	Broadcasting
			EES	Earth Exploration-Satellite
			FXS	Fixed-Satellite
			FXX	Fixed
			ISM	Industrial, Scientific and Medical Application
			ITS	Intersatellite Service
			LMS	Land Mobile-Satellite
			LMX	Land Mobile
			MAX	MeteorologicalAids
			MES	Meteorological-Satellite
			MMX	Maritime Mobile
			MMS	Maritime Mobile-Satellite
			MOS	Mobile-Satellite
			MOX	Mobile
			MRS	Maritime Radionavigation-Satellite

DATA ITEM	DATA NAME	FIELD NAME	CODE	DESCRIPTION
			MRX	Maritime Radionavigation
			POX	Port Operations
			RAX	Radio Astronomy
			RCX	Radiocommunication
			RDS	Radiodetermination-Satellite
			RDX	Radiodetermination
			RLX	Radiolocation
			RNS	Radionavigation-Satellite
			RNX	Radionavigation
			SFS	Standard Frequency and Time Signal-Satellite
			SFT	Standard Frequency and Time Signal
			SMX	Ship Movement
			SOX	Space Operations
			SRX	Space Research
			SSX	Safety Services
			SVX	Special Services
28	Class of Station Code	F9_STCODE	AL	Aeronautical radionavigation land station (transmitting station in the service)
			AM	Aeronautical radionavigation mobile station(receiving station in the service)
			AT	Amateur station

DATA ITEM	DATA NAME	FIELD NAME	CODE	DESCRIPTION
			AX	Aeronautical fixed
			BC	Broadcasting station, sound
			BT	Broadcasting station, television
			EA	Space station in the amateur-satellite service
			EB	Space station in the broadcasting-satellite service (sound broadcasting)
			EC	Space station in the fixed-satellite service
			ED	Space telecommand space station
			EE	Space station in the standard frequency-satellite service
			EF	Space station in the radiodetermination-satellite service
			EG	Space station in the maritime mobile-satellite service
			EH	Space research space station
			EI	Space station in the mobile-satellite service
			EJ	Space station in the aeronautical mobile-satellite service
			EK	Space tracking space station
			EM	Space station in the meteorological-satellite service
			EN	Space station in the radionavigation-satellite service

DATA ITEM	DATA NAME	FIELD NAME	CODE	DESCRIPTION
			EO	Space station in the aeronautical radionavigation-satellite service
			EQ	Space station in the maritime radionavigation-satellite service
			ER	Space telemetering space station
			ES	Station in the inter-satellite service
			ET	Space station in the space operation service
			EU	Space station in the land mobile-satellite service
			EV	Space station in the broadcasting-satellite service (television)
			EW	Space station in the earth exploration-satellite service
			EX	Experimental Station
			EY	Space station in the time signal-satellite service
			FA	Aeronautical station
			FB	Base station
			FC	Coast station
			FD	Aeronautical station in the aeronautical mobile (R) service
			FG	Aeronautical station in the aeronautical mobile (OR) service
			FL	Land station

DATA ITEM	DATA NAME	FIELD NAME	CODE	DESCRIPTION
			FP	Port station
			FR	Receive only station
			FX	Fixed station
			LR	Radiolocation land station
			MA	Aircraft station
			ML	Land mobile station
			MO	Mobile station
			MR	Radiolocation mobile station
			MS	Ship station
			NL	Maritime radionavigation land station
			NR	Radionavigation mobile station
			OD	Oceanographic data station (RX)
			OE	Oceanographic data interrogation station (TX)
			PL	Combination of two or more classes of station (limited to collective entries made under the terms of RR2184)
			RA	Radio astronomy station
			RM	Maritime radionavigation mobile station
			RN	Radionavigation land station
			SA	Meterological aids mobile station (Rx)
			SM	Meteorological aids station (Tx)

DATA ITEM	DATA NAME	FIELD NAME	CODE	DESCRIPTION
			SS	Standard frequency and time signal station
			TA	Amateur Earth Station (Space operation earth station in the amateur-satellite service)
			TB	Aeronautical earth station
			TC	Earth station in the fixed-satellite service
			TD	Space telecommand earth station
			TE	Satellite EPIRB in the mobile-satellite service
			TF	Fixed earth station in the radiodetermination-satellite service
			TG	Ship earth station
			TH	Earth station in the space research service
			TI	Coast earth station
			TJ	Aircraft earth station
			TK	Space tracking earth station
			TL	Mobile earth station in the radiodetermination-satellite service
			TM	Earth station in the meteorological-satellite service
			TN	Fixed earth station in the radionavigation-satellite service

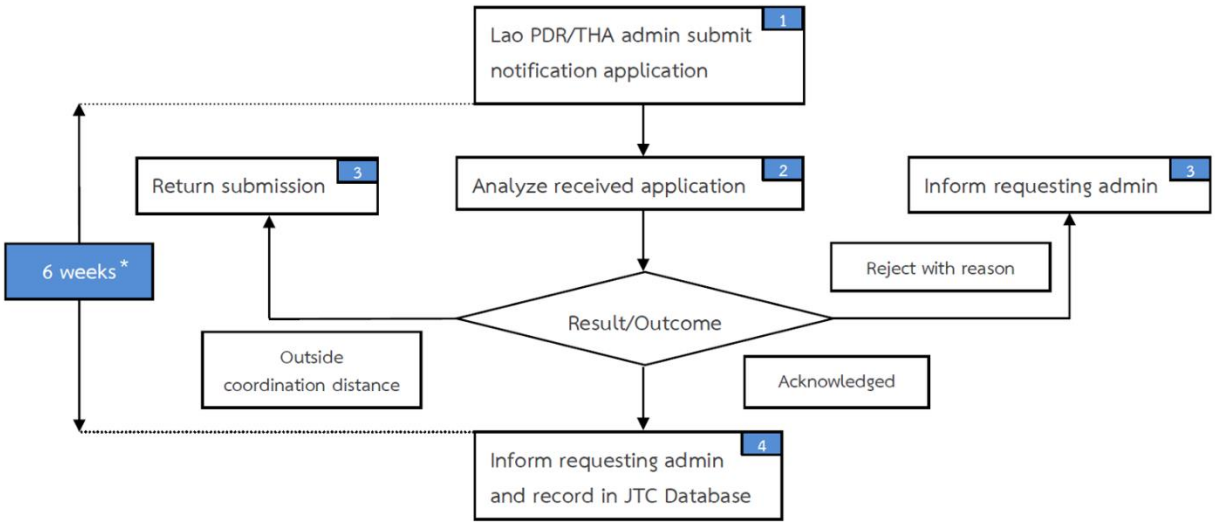
DATA ITEM	DATA NAME	FIELD NAME	CODE	DESCRIPTION
			TO	Mobile earth station in the aeronautical radionavigation-satellite service
			TP	Receiving earth station
			TQ	Mobile earth station in the maritime
			TR	Space telemetering earth station
			TS	Television, sound channel (audio)
			TT	Earth station in the space operation service
			TU	Earth station in the land mobile service
			TV	Television, vision channel (visual)
			TW	Earth station in the earth exploration-satellite service
			TX	Fixed earth station in the maritime radionavigation-satellite service
			TY	Base earth station
			TZ	Fixed earth station in the aeronautical radionavigation-satellite service
			UA	Mobile earth station
			UB	Earth station in the broadcasting-satellite service (sound broadcasting)
			UD	Space telecommand mobile earth station
			UH	Mobile earth station in the space research service
			UK	Space tracking mobile earth station

DATA ITEM	DATA NAME	FIELD NAME	CODE	DESCRIPTION
			UM	Mobile earth station in the meteorological-satellite service
			UN	Mobile earth station in the radionavigation-satellite service
			UR	Space telemetering mobile earth station
			UT	Mobile earth station in the space operation service
			UV	Earth station in the broadcasting-satellite service (television)
			UW	Mobile earth station in the earth exploration-satellite service
			VA	Land earth station
			YY	Repeater
29	Usage Period	F10_HOUR	H	Scheduled
			H8	8 hours service provided by a ship station of the third category
			H16	16 hours service provided by a ship station of the second category
			H24	24 hours operation
			HJ	Day use
			HN	Night use
			HT	Transit period operation
			HX	Intermittent use during 24 hours operation
30	Bandwidth (kHz)	T1_BW	XXXXX	Size of bandwidth
31	TX Output Power (Watt)	T3_RFOPPOW	X.XX	Radiated power of the transmitter e.g. 0.00

DATA ITEM	DATA NAME	FIELD NAME	CODE	DESCRIPTION
32	Total System Loss (dB)	T5_TOTALLO	X.XX	Total reduction in the signal strength through the signal path including insertion and line loss e.g. 0.00
33	Effective Radiated Power (dBW)	T6_RAD_PWR	X.XX	Effective radiated power e.g. 0.00
34	Approval Date	APPROVAL_DATE	X.XX	Approval Date
35	PCI,PSC	PCI,PSC		Primary scrambling code (PSC) Physical Cell ID (PCI)
36	Remarks	REMARKS	-	Any comments or special consideration to be noted.

4.4 Submission of frequency assignment

- Submission of frequency assignment should be exchanged via E-mail, and the received date would be based on electronic delivery of the information. The timeframe for frequency notification procedure of 6 weeks. If such timeframe could not be satisfied, each side should communicate within 6 weeks via e-mail with justifiable reason and the timeframe could be further extended for another 2 weeks. If there was no response, then such records would be deemed 'acknowledged'. The procedures for submission are as shown below:



Note: If there is no response to the submission within 6 weeks, such records will be deemed 'acknowledged'.

*Extendable for another 2 weeks with justifiable reason.

Note: If there is no response to the submission within 6 weeks, such records will be deemed 'acknowledged'.

*Extendable for another 2 weeks with justifiable reason.

- For a frequency assignment with more than one emission, the power for each type of emission shall be submitted as a different application.

- All coordinated assignments will be recorded in the JTC Database which is to be maintained in Microsoft Access/Microsoft Excel format. There may be separate databases or different formats for registered assignments and notified assignments.