Name of APT Member	Thailand					
Contact info	Name	Supanath Juthacharoenwong	E-mail	supanath.j@nbtc.go.th	Working Unit	Spectrum Management Bureau, Office of NBTC

Question 1	Names of Radiocommunication Systems providing railway traffic control, passenger safety and security for train operations in your country.	Current or Future sys.	MEMO (If needed)
System 1	LZB700M	Current	
System 2	VHF	Current	
System 3	Digital Trunked Radio	Current	
System 4	Leaky Coaxial Cable	Future	Pending Government Approval
System 5	GSM-R	Future	In Public Hearing Process
System 6	WiFi	Current	
System 7	Broadband Radio	Current	
System 8	Radar	Current	

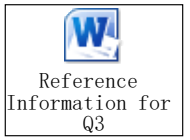
Note to Question 1: Please fill in the **Names** *of Radiocommunication Systems providing railway traffic control, passenger safety and security for train operations in your country. If you have some* **introductions or descriptions** *for each system, please fill it into MEMO cell respectively. IF the system is a future system, please select* **Future** *at the dropdown menu.*

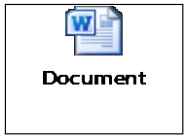
Question 2	Please provide the frequncy range(s) and channel seperation(s) of such systems.		
	Frequency Band Start From	Frequency Band End With	Channel Seperation
LZB700M	4.75 kHz	16.5 kHz	-
VHF	137 MHz	174 MHz	12.5 kHz, 25 kHz
Digital Trunked Radio	380 MHz	399.9 MHz	25 kHz
Leaky Coaxial Cable	419.375 MHz	420 MHz	25 kHz, 300 kHz
	429.375 MHz	430 MHz	25 kHz, 300 kHz
GSM-R	885 MHz	890 MHz	200 kHz
	930 MHz	935 MHz	200 kHz
WiFi	2 400 MHz	2 500 MHz	-

Broadband Radio	5 735 MHz	5 835 MHz	-
Radar	24.05 GHz	24.25 GHz	-

Note to Question 2: Please fill in the frequency ranges, channel seperation for each system.

Question 3	In Which Scenario(s) does such system operate?							
LZB700M	Railway line	YES	Railway station	NO	Shunting yard	NO	Maintenance Base	NO
VHF	Railway line	YES	Railway station	YES	Shunting yard	YES	Maintenance Base	YES
Digital Trunked Radio	Railway line	YES	Railway station	YES	Shunting yard	YES	Maintenance Base	YES
Leaky Coaxial Cable	Railway line	YES	Railway station	YES	Shunting yard	YES	Maintenance Base	NO
GSM-R	Railway line	YES	Railway station	YES	Shunting yard	YES	Maintenance Base	YES
WiFi	Railway line	YES	Railway station	YES	Shunting yard	YES	Maintenance Base	YES
Broadband Radio	Railway line	YES	Railway station	YES	Shunting yard	YES	Maintenance Base	YES
Radar	Railway line	YES	Railway station	YES	Shunting yard	YES	Maintenance Base	YES





Note to Question 3: RSTT may be operated in different Secnario(s). So please provide it by selecting Yes or NO at dropdown cell colored in yellow. For more explanation on 4 types of secnarios, please turn to attach document right to this table.(double Click for opening)

Question 4	What is the main application of the system(s)?								Q5: Which technology is in use?
LZB700M	Train Radio	NO	Train positioning information	YES	Train Remote	NO	Train surveillance	NO	Short Range Radio based
VHF	Train Radio	YES	Train positioning information	NO	Train Remote	NO	Train surveillance	NO	Analogue Radio based

Digital Trunked Radio	**Train Radio**	**YES**	**Train positioning information**	**NO**	**Train Remote**	**NO**	**Train surveillance**	**NO**	**TETRA based**
Leaky Coaxial Cable	**Train Radio**	**YES**	**Train positioning information**	**NO**	**Train Remote**	**NO**	**Train surveillance**	**NO**	**Leaky Coaxial Cable (LCX) based**
GSM-R	**Train Radio**	**YES**	**Train positioning information**	**NO**	**Train Remote**	**YES**	**Train surveillance**	**NO**	**GSM-R based**
WiFi	**Train Radio**	**YES**	**Train positioning information**	**NO**	**Train Remote**	**YES**	**Train surveillance**	**NO**	**RLAN Technology**
Broadband Radio	**Train Radio**	**YES**	**Train positioning information**	**NO**	**Train Remote**	**NO**	**Train surveillance**	**YES**	**RLAN Technology**
Radar	**Train Radio**	**NO**	**Train positioning information**	**YES**	**Train Remote**	**NO**	**Train surveillance**	**NO**	**Radar based**

Note to Question 4: RSTT may provide different applications. So please provide it by selecting Yes or NO at dropdown cell colored in yellow. For more explanation on 4 types of applications, please turn to attach document right to this table.(double Click for opening)

Note to Question 5: RSTT may use different technologie(s).please provide it by selecting at dropdown cell.For more explanation , please turn to attach document below.

Question 6	**Are you planning to migrate your system? If yes, please provide introduction of the new system (e.g. frequency bands, technical parameters, operation scenario, etc.) and indicate which existing system(s) would be replaced?**
-