

Release Note

KAIROS Repeater

- November 2019 update
- DMR Tier III
- S-Trunking

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Revision History

Version	Date of issue	Note
1.00	October-04, 2019	First edition
1.10	November-14, 2019	Revised 1
1.11	December-2nd, 2019	Revised 2

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1 Outline

1.1 Confirmed version information

1. Outline

This document describes KAIROS firmware updated on November 2019.

1.1. Confirmed version information

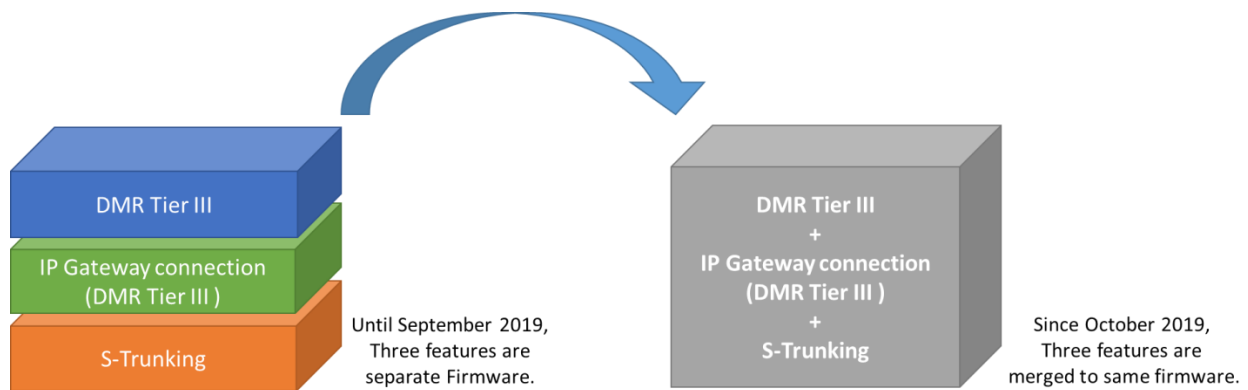
Version of various Software confirmed when editing this material is as follows.

- KAIROS Firmware
 - OS: Linux 2.4.31 Version 01, Build 07
 - KAIROS (Base Station): 1.6.B.1_stable
 - DSP: Version 4.5C
 - PLD: Version 4.13
- Trunking System Controller: 1.0.5.0
- KAIROS Manager: 1.7.9

2. Overview

2.1. KAIROS Firmware

DMR Tier III Trunking, DMR Tier III w/ IP Gateway connection and S-Trunking software are merged to the firmware released on October 2019. About the version information, please see section 1.1 "Confirmed version information". This firmware has some feature limitations, please see section 2.1.1 "Supported Features".



2.1.1. Supported Features

- Several features are under developing and not supported yet on DMR Tier III Trunking and S-Trunking.
- IP Gateway connection feature supports S-Trunking and Tier II.

Features		The Firmware Released on November 2019	
		S-Trunking	DMR Tier III Trunking
System			
Single Site Trunking		✓	✓
Multi-Site Trunking		✓	✓
Limited size	Sites for the entire system	Network Model Tiny: 7 Small: 15 Large: 15 Huge: 15	Network Model Tiny: 7 Small: 31 Large: 255 Huge: 1023
	Channels per site	8 KAIROS (16 slots)	Undefined
Simulcast		N/A	✓
Trunking Type (Message/Transmission/Quasi-Transmission)		✓	✓
Call Type			
Group Call/ Individual Call/ Broadcast Call/ All Call		✓	✓
Status Message/ Emergency Status Message		✓	✓
Radio Check (Status Polling)		✓	✓
Short Data Message		✓	✓
GPS Data Message		✓	✓
GPS Data Polling		✓	✓
Long Data Message/ Transparent		✓	✓

2 Overview

2.1 KAIROS Firmware

OTAP (Over-the-Air Programing)	✓	✓
Priority Call	✓	✓
Emergency Call	✓	✓
Emergency Alarm	✓	✓
Stun/ Revive/ Kill	✓	✓
Remote Monitor (Ambient Listening)	✓	✓
Transmit Interrupt	✓	✓ (See Note 3)
Late Entry	✓	✓
Trunking Features		
Registration/ De-Registration	✓	✓
Power Save	N/A (See Note 2)	✓
Authentication	✓	✓
Group Subscription	✓	✓
Adjacent Site Information	✓	✓
Unified Single Block Data (USBD)	N/A (See Note 1)	✓
Other		
Continuous Wave Identification (CW ID)	✓	✓
Cross Busy (Internal/External)	✓	N/A
IP Gateway connection	✓	✓

Note 1: The feature will be supported on end of March 2020 update.

Note 2: In the case of S-Trunking, a Subscriber Unit (SU) has "Power Save" feature and executes it by itself.

Note 3: Transmit Interrupt (Tier 3) supports KENWOOD Radio only.

2 Overview

2.2 KAIROS Licences

2.2. KAIROS Licences

Since October 2019 version up, some new licences for KAIROS repeater are added, and these licences are required to construct DMR Tier III Trunking or S-Trunking system.

Following table is overview of licences for DMR Tier III or S-Trunking. The detail of licence requirement for each systems are described in chapter 3 “Licences Requirement”.

Licences (In KAIROS Web Interface - Keys)	Description
DMR licence	This licence is required to use DMR operation.
Tier 3 licence	This licence is required to construct a DMR Tier III system.
Simulcast licence	This licence is required to construct a Simulcast system.
S-Trunking licence	This licence is required to construct an S-Trunking system.
Multi-Site Trunking licence	New licence. This licence is required to construct a Multi-Site system for DMR Tier III or S-Trunking.
TSC licence	New licence. (Only Tier III) This licence is required to make Trunking System Controller (TSC) to be running.
NMS licence	New licence. (Only Tier III) This licence is required to connect to Trunking System Controller (TSC) and make detail settings by KAIROS Network Management System (KA NMS).

Model	Order Per	Provided Licence In KAIROS Web Interface - Keys
KA-DMR-L DMR licence	Repeater	DMR licence
KWD-KA10ST S-Trunking License	Repeater	S-Trunking License
KWD-KA10MST S-Trunking Multi Site License	Repeater	Multi-Site Trunking licence
KA-TR-SS DMR Tier3 Single Site SW License	Repeater	Tier 3 licence
KA-TR-MS DMR Tier3 Multi-Site Multi-Frequency SW licence	Repeater	Tier 3 licence, Multi-Site Trunking licence
KA-TR-MSS DMR Tier3 Multi-Site Simulcast licence (first carrier)	Repeater	Simulcast licence, Tier 3 licence
KA-TR-MSA DMR Tier3 Multi-Site Simulcast licence (other carriers)	Repeater	Simulcast licence, Tier 3 licence
KA-NMS-SS DMR TIER 3 Network Management System (single site)	System	NMS licence
KA-NMS DMR TIER 3 Network Management System (multisite)	System	NMS licence
KA-TSC DMR Tier3 Main or Backup or Distributed Controller SW licence	Controller	TSC licence

2 Overview

2.2 KAIROS Licences

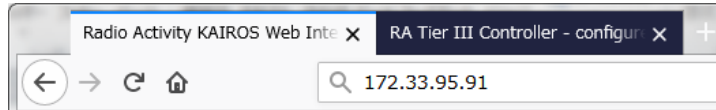
2.2.1. Checking installed licences

To check current licences installed in KAIROS, use KAIROS Web Interface.

➤ **KAIROS Web Interface:**

Connect to Web Server in KAIROS by a web browser. Firefox is recommended as a web browser.

Enter KAIROS IP Address in Firefox's address bar and press Enter.



Then Click Setup - Keys to see the Current Keys Status.

3. Licences Requirement

The details of licence requirement for DMR Tier III, DMR Tier III w/ Simulcast and S-Trunking are described in this chapter.

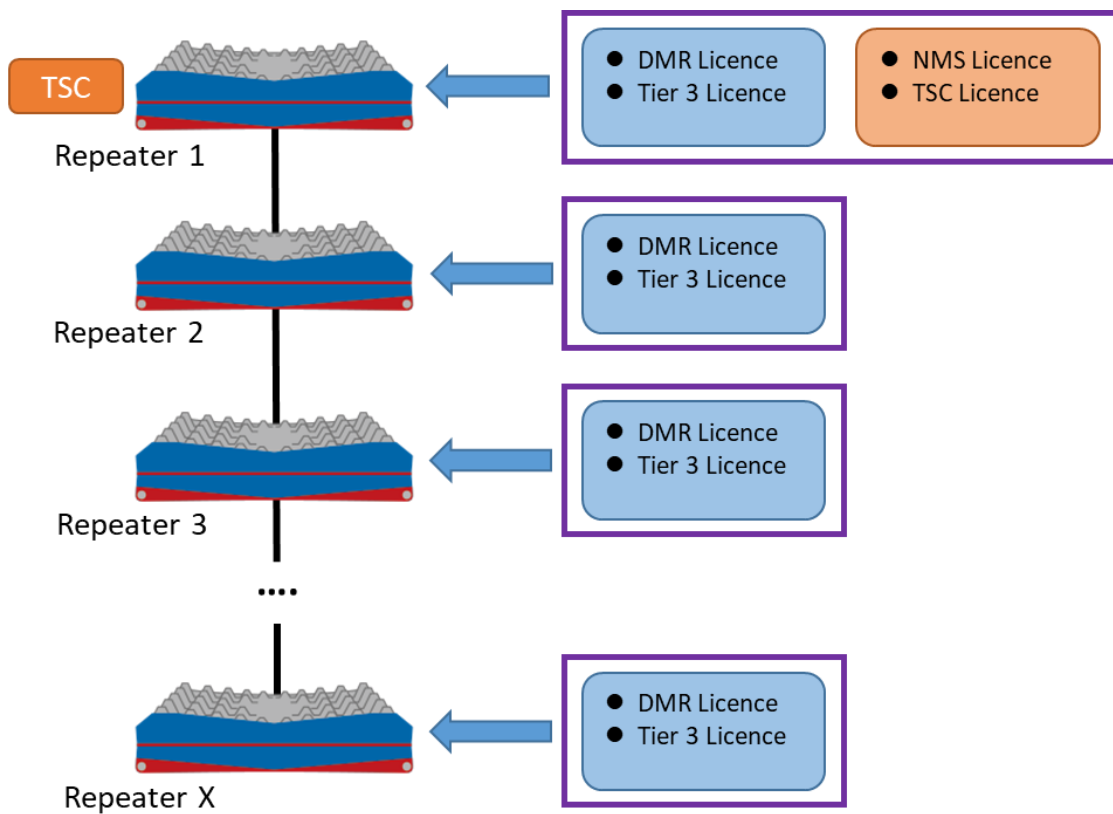
3.1. Licences for DMR Tier III

3.1.1. Single Site system

DMR licence and Tier 3 licence are necessary for each KAIROS.

NMS licence and TSC licence are necessary for the KAIROS which is installed TSC software.

Following figure describes a centralized controller system.



3 Licences Requirement

3.1 Licences for DMR Tier III

Licences for the TSC Repeater						TSC
- DMR Tier III - Single Site						
DMR	Tier 3	Simulcast	Multi-Site Trunking	S-Trunking	NMS	TSC
required	required	n/a	n/a	n/a	required	required

Current keys status:	
DMR licence	is activated for LIFETIME
Analog licence	is activated for LIFETIME
Tier 3 licence	is activated for LIFETIME
Net Control licence	is activated for LIFETIME
SNMP licence	is activated for LIFETIME
POCSAG licence	is activated for LIFETIME
MTCS licence	is activated for LIFETIME
Simulcast licence	has EXPIRED
P25 licence	is activated for LIFETIME
TX licence	is activated for LIFETIME
SIP licence	is activated for LIFETIME
Amateur Radio Features licence	has EXPIRED
Raw Port licence	has EXPIRED
Audio from web licence	is activated for LIFETIME
VVF Features licence	has EXPIRED
S-Trunking licence	has EXPIRED
1+1 redundancy licence	is activated for LIFETIME
Multi-Site Trunking licence	has EXPIRED
NMS licence	is activated for LIFETIME
TSC licence	is activated for LIFETIME
Number 20 licence	has EXPIRED
Number 21 licence	has EXPIRED
Number 22 licence	has EXPIRED
Number 23 licence	has EXPIRED
Number 24 licence	has EXPIRED
Number 25 licence	has EXPIRED
Number 26 licence	has EXPIRED
Number 27 licence	has EXPIRED
Number 28 licence	has EXPIRED
Number 29 licence	has EXPIRED
Number 30 licence	has EXPIRED
Region	World Wide

3 Licences Requirement

3.1 Licences for DMR Tier III

Licences for Non-TSC Repeaters						
- DMR Tier III - Single Site						Non-TSC
DMR	Tier 3	Simulcast	Multi-Site Trunking	S-Trunking	NMS	TSC
required	required	n/a	n/a	n/a	n/a	n/a

Current keys status:	
DMR licence	is activated for LIFETIME
Analog licence	is activated for LIFETIME
Tier 3 licence	is activated for LIFETIME
Net Control licence	is activated for LIFETIME
SNMP licence	is activated for LIFETIME
POCSAG licence	is activated for LIFETIME
MTCS licence	is activated for LIFETIME
Simulcast licence	has EXPIRED
P25 licence	is activated for LIFETIME
TX licence	is activated for LIFETIME
SIP licence	is activated for LIFETIME
Amateur Radio Features licence	has EXPIRED
Raw Port licence	has EXPIRED
Audio from web licence	is activated for LIFETIME
VVF Features licence	has EXPIRED
S-Trunking licence	has EXPIRED
1+1 redundancy licence	is activated for LIFETIME
Multi-Site Trunking licence	has EXPIRED
NMS licence	has EXPIRED
TSC licence	has EXPIRED
Number 20 licence	has EXPIRED
Number 21 licence	has EXPIRED
Number 22 licence	has EXPIRED
Number 23 licence	has EXPIRED
Number 24 licence	has EXPIRED
Number 25 licence	has EXPIRED
Number 26 licence	has EXPIRED
Number 27 licence	has EXPIRED
Number 28 licence	has EXPIRED
Number 29 licence	has EXPIRED
Number 30 licence	has EXPIRED
Region	World Wide

3 Licences Requirement

3.1 Licences for DMR Tier III

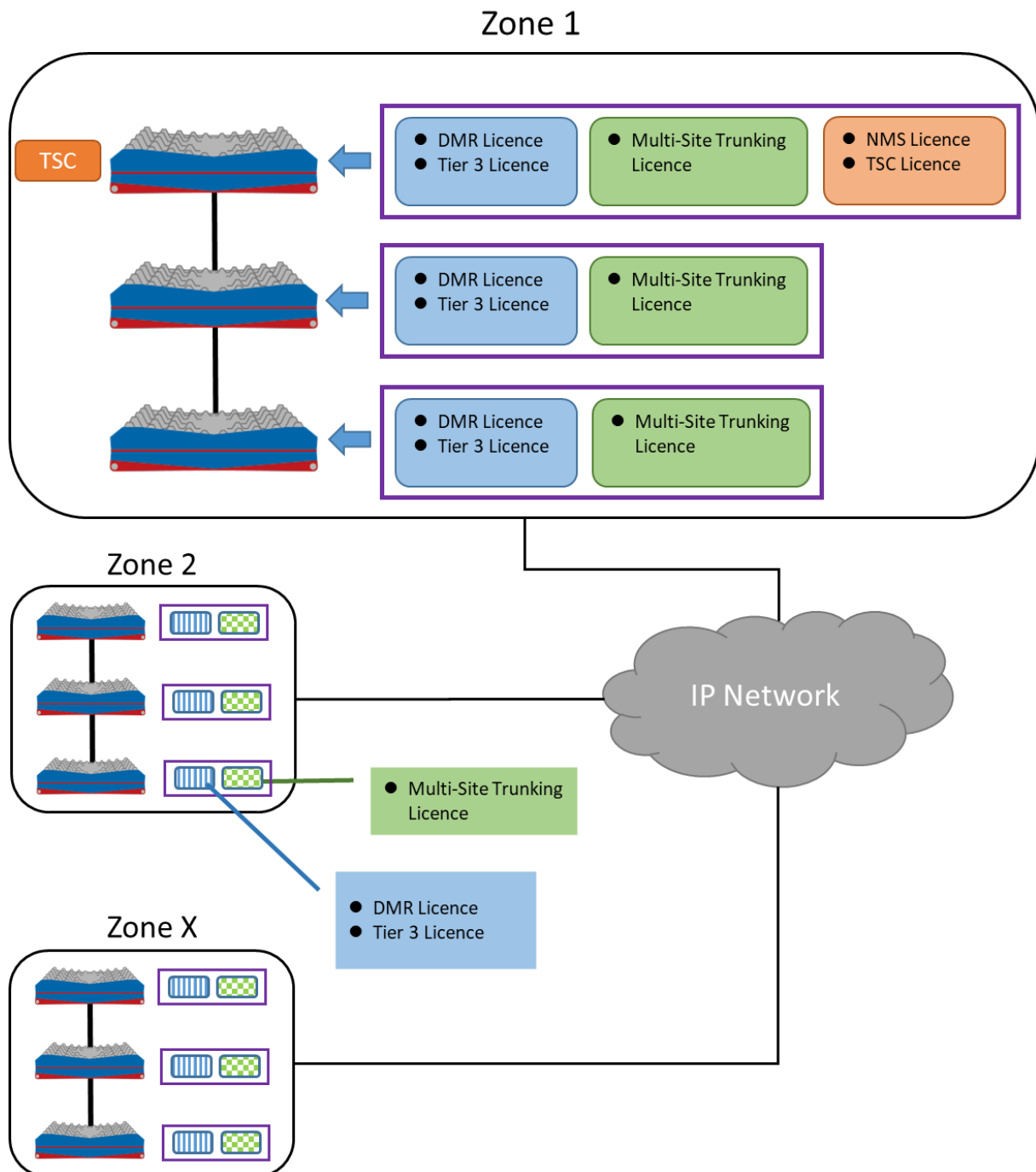
3.1.2. Multi-Site system

DMR licence and Tier 3 licence are necessary for each KAIROS.

Multi-Site Trunking licence is also necessary for each KAIROS.

NMS licence and TSC licence are necessary for the KAIROS which is installed TSC software.

Following figure describes a centralized controller system.



3 Licences Requirement

3.1 Licences for DMR Tier III

Licences for the TSC Repeater						
- DMR Tier III - Multi-Site						TSC
DMR	Tier 3	Simulcast	Multi-Site Trunking	S-Trunking	NMS	TSC
required	required	n/a	required	n/a	required	required

Current keys status:	
DMR licence	is activated for LIFETIME
Analog licence	is activated for LIFETIME
Tier 3 licence	is activated for LIFETIME
Net Control licence	is activated for LIFETIME
SNMP licence	is activated for LIFETIME
POCSAG licence	is activated for LIFETIME
MTCS licence	is activated for LIFETIME
Simulcast licence	has EXPIRED
P25 licence	is activated for LIFETIME
TX licence	is activated for LIFETIME
SIP licence	is activated for LIFETIME
Amateur Radio Features licence	has EXPIRED
Raw Port licence	has EXPIRED
Audio from web licence	is activated for LIFETIME
VVF Features licence	has EXPIRED
S-Trunking licence	has EXPIRED
1+1 redundancy licence	is activated for LIFETIME
Multi-Site Trunking licence	is activated for LIFETIME
NMS licence	is activated for LIFETIME
TSC licence	is activated for LIFETIME
Number 20 licence	has EXPIRED
Number 21 licence	has EXPIRED
Number 22 licence	has EXPIRED
Number 23 licence	has EXPIRED
Number 24 licence	has EXPIRED
Number 25 licence	has EXPIRED
Number 26 licence	has EXPIRED
Number 27 licence	has EXPIRED
Number 28 licence	has EXPIRED
Number 29 licence	has EXPIRED
Number 30 licence	has EXPIRED
Region	World Wide

3 Licences Requirement

3.1 Licences for DMR Tier III

Licences for Non-TSC Repeaters						
- DMR Tier III - Multi-Site						Non-TSC
DMR	Tier 3	Simulcast	Multi-Site Trunking	S-Trunking	NMS	TSC
required	required	n/a	required	n/a	n/a	n/a

Current keys status:	
DMR licence	is activated for LIFETIME
Analog licence	is activated for LIFETIME
Tier 3 licence	is activated for LIFETIME
Net Control licence	is activated for LIFETIME
SNMP licence	is activated for LIFETIME
POCSAG licence	is activated for LIFETIME
MTCS licence	is activated for LIFETIME
Simulcast licence	has EXPIRED
P25 licence	is activated for LIFETIME
TX licence	is activated for LIFETIME
SIP licence	is activated for LIFETIME
Amateur Radio Features licence	has EXPIRED
Raw Port licence	has EXPIRED
Audio from web licence	is activated for LIFETIME
VVF Features licence	has EXPIRED
S-Trunking licence	has EXPIRED
1+1 redundancy licence	is activated for LIFETIME
Multi-Site Trunking licence	is activated for LIFETIME
NMS licence	has EXPIRED
TSC licence	has EXPIRED
Number 20 licence	has EXPIRED
Number 21 licence	has EXPIRED
Number 22 licence	has EXPIRED
Number 23 licence	has EXPIRED
Number 24 licence	has EXPIRED
Number 25 licence	has EXPIRED
Number 26 licence	has EXPIRED
Number 27 licence	has EXPIRED
Number 28 licence	has EXPIRED
Number 29 licence	has EXPIRED
Number 30 licence	has EXPIRED
Region	World Wide

3 Licences Requirement

3.2 Licences for DMR Tier III w/ Simulcast

3.2. Licences for DMR Tier III w/ Simulcast

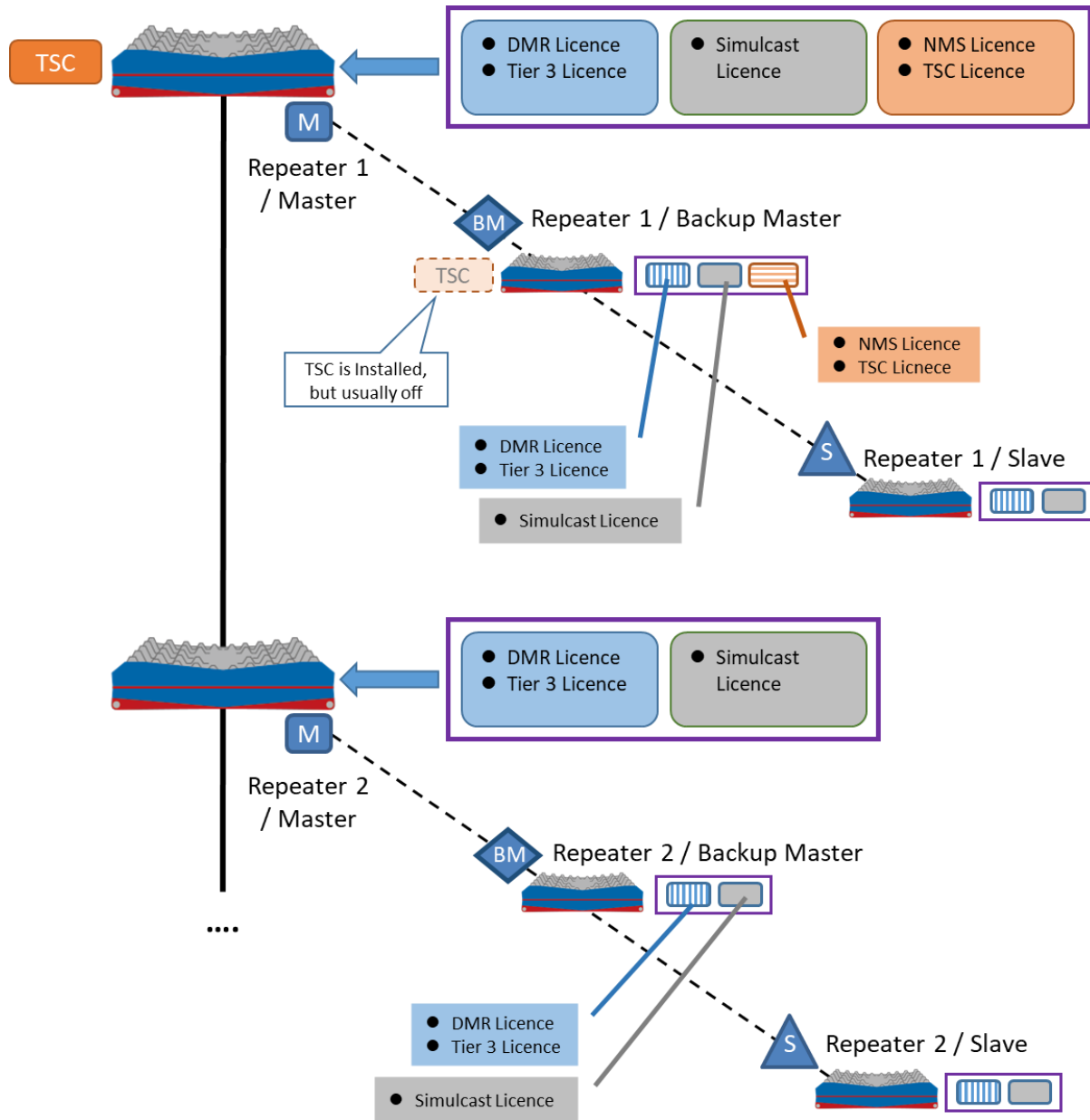
3.2.1. Single Site system

DMR licence and Tier 3 licence are necessary for each KAIROS.

Simulcast licence is also necessary for each KAIROS.

NMS licence and TSC licence are necessary for the KAIROS which is installed TSC software.

Following figure describes a centralized controller system.



3 Licences Requirement

3.2 Licences for DMR Tier III w/ Simulcast

Licences for the TSC Repeater						TSC
- DMR Tier III - Single Site - Master or Backup Master Repeater						
DMR	Tier 3	Simulcast	Multi-Site Trunking	S-Trunking	NMS	TSC
required	required	required	n/a	n/a	required	required

Current keys status:	
DMR licence	is activated for LIFETIME
Analog licence	is activated for LIFETIME
Tier 3 licence	is activated for LIFETIME
Net Control licence	is activated for LIFETIME
SNMP licence	is activated for LIFETIME
POCSAG licence	is activated for LIFETIME
MTCS licence	is activated for LIFETIME
Simulcast licence	is activated for LIFETIME
P25 licence	is activated for LIFETIME
TX licence	is activated for LIFETIME
SIP licence	is activated for LIFETIME
Amateur Radio Features licence	has EXPIRED
Raw Port licence	has EXPIRED
Audio from web licence	is activated for LIFETIME
VVF Features licence	has EXPIRED
S-Trunking licence	has EXPIRED
1+1 redundancy licence	is activated for LIFETIME
Multi-Site Trunking licence	has EXPIRED
NMS licence	is activated for LIFETIME
TSC licence	is activated for LIFETIME
Number 20 licence	has EXPIRED
Number 21 licence	has EXPIRED
Number 22 licence	has EXPIRED
Number 23 licence	has EXPIRED
Number 24 licence	has EXPIRED
Number 25 licence	has EXPIRED
Number 26 licence	has EXPIRED
Number 27 licence	has EXPIRED
Number 28 licence	has EXPIRED
Number 29 licence	has EXPIRED
Number 30 licence	has EXPIRED
Region	World Wide

3 Licences Requirement

3.2 Licences for DMR Tier III w/ Simulcast

Licences for Non-TSC Repeaters						Non-TSC
- DMR Tier III - Single Site - Master, Backup Master or Slave Repeater						
DMR	Tier 3	Simulcast	Multi-Site Trunking	S-Trunking	NMS	TSC
required	required	required	n/a	n/a	n/a	n/a

Current keys status:	
DMR licence	is activated for LIFETIME
Analog licence	is activated for LIFETIME
Tier 3 licence	is activated for LIFETIME
Net Control licence	is activated for LIFETIME
SNMP licence	is activated for LIFETIME
POCSAG licence	is activated for LIFETIME
MTCS licence	is activated for LIFETIME
Simulcast licence	is activated for LIFETIME
P25 licence	is activated for LIFETIME
TX licence	is activated for LIFETIME
SIP licence	is activated for LIFETIME
Amateur Radio Features licence	has EXPIRED
Raw Port licence	has EXPIRED
Audio from web licence	is activated for LIFETIME
VVF Features licence	has EXPIRED
S-Trunking licence	has EXPIRED
1+1 redundancy licence	is activated for LIFETIME
Multi-Site Trunking licence	has EXPIRED
NMS licence	has EXPIRED
TSC licence	has EXPIRED
Number 20 licence	has EXPIRED
Number 21 licence	has EXPIRED
Number 22 licence	has EXPIRED
Number 23 licence	has EXPIRED
Number 24 licence	has EXPIRED
Number 25 licence	has EXPIRED
Number 26 licence	has EXPIRED
Number 27 licence	has EXPIRED
Number 28 licence	has EXPIRED
Number 29 licence	has EXPIRED
Number 30 licence	has EXPIRED
Region	World Wide

3 Licences Requirement

3.2 Licences for DMR Tier III w/ Simulcast

3.2.2. Multi-Site system

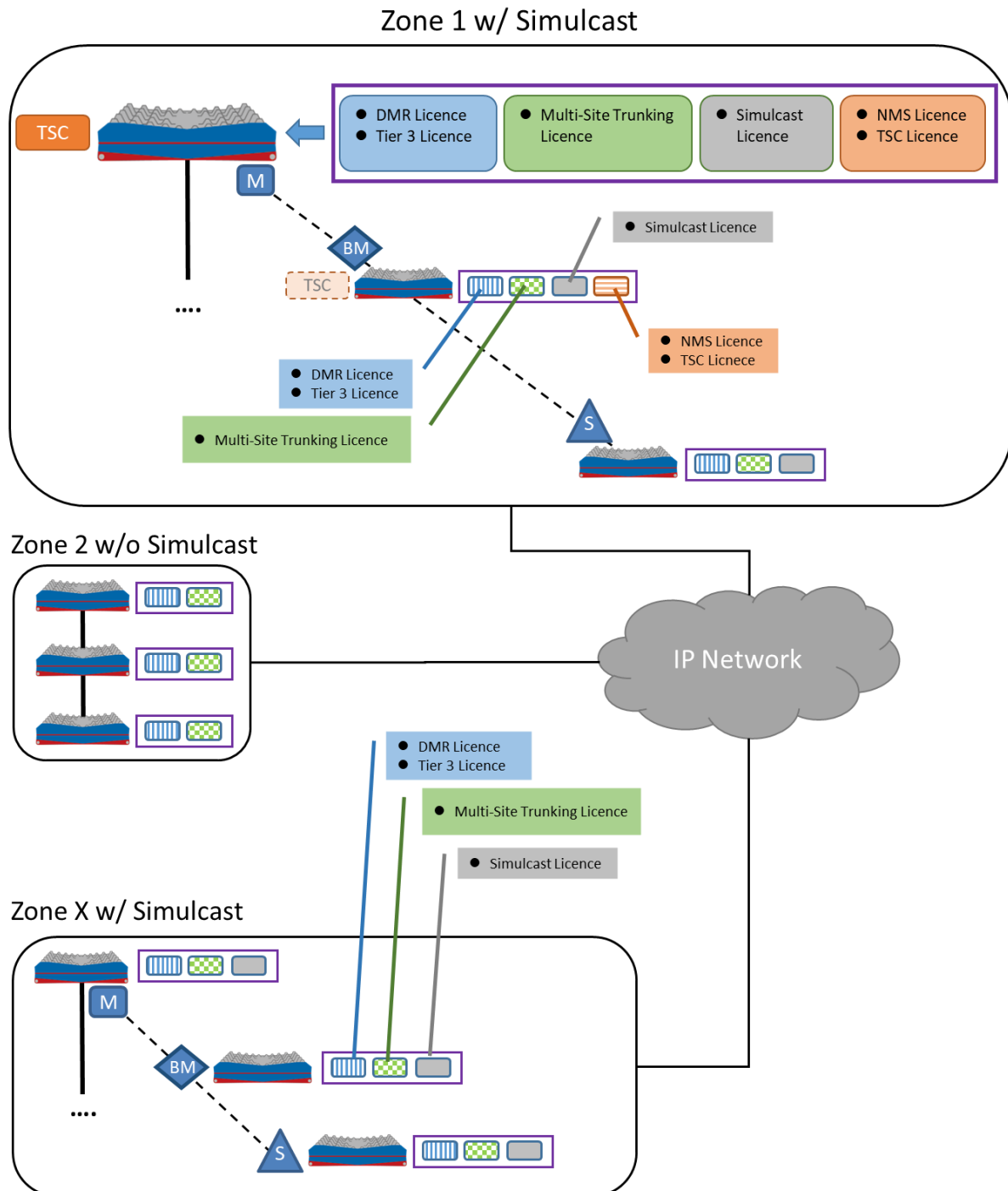
DMR licence and Tier 3 licence are necessary for each KAIROS.

Multi-Site Trunking licence also necessary for each KAIROS.

Simulcast licence is also necessary for each KAIROS.

NMS licence and TSC licence are necessary for the KAIROS which is installed TSC software.

Following figure describes a centralized controller system.



3 Licences Requirement

3.2 Licences for DMR Tier III w/ Simulcast

Licences for the TSC Repeater						TSC
- DMR Tier III - Multi-Site - Master or Backup Master Repeater						
DMR	Tier 3	Simulcast	Multi-Site Trunking	S-Trunking	NMS	TSC
required	required	required	required	n/a	required	required

Current keys status:	
DMR licence	is activated for LIFETIME
Analog licence	is activated for LIFETIME
Tier 3 licence	is activated for LIFETIME
Net Control licence	is activated for LIFETIME
SNMP licence	is activated for LIFETIME
POCSAG licence	is activated for LIFETIME
MTCS licence	is activated for LIFETIME
Simulcast licence	is activated for LIFETIME
P25 licence	is activated for LIFETIME
TX licence	is activated for LIFETIME
SIP licence	is activated for LIFETIME
Amateur Radio Features licence	has EXPIRED
Raw Port licence	has EXPIRED
Audio from web licence	is activated for LIFETIME
VVF Features licence	has EXPIRED
S-Trunking licence	has EXPIRED
1+1 redundancy licence	is activated for LIFETIME
Multi-Site Trunking licence	is activated for LIFETIME
NMS licence	is activated for LIFETIME
TSC licence	is activated for LIFETIME
Number 20 licence	has EXPIRED
Number 21 licence	has EXPIRED
Number 22 licence	has EXPIRED
Number 23 licence	has EXPIRED
Number 24 licence	has EXPIRED
Number 25 licence	has EXPIRED
Number 26 licence	has EXPIRED
Number 27 licence	has EXPIRED
Number 28 licence	has EXPIRED
Number 29 licence	has EXPIRED
Number 30 licence	has EXPIRED
Region	World Wide

3 Licences Requirement

3.2 Licences for DMR Tier III w/ Simulcast

Licences for Non-TSC Repeaters						Non-TSC
- DMR Tier III - Multi-Site - Master, Backup Master or Slave Repeater						
DMR	Tier 3	Simulcast	Multi-Site Trunking	S-Trunking	NMS	TSC
required	required	required	required	n/a	n/a	n/a

Current keys status:	
DMR licence	is activated for LIFETIME
Analog licence	is activated for LIFETIME
Tier 3 licence	is activated for LIFETIME
Net Control licence	is activated for LIFETIME
SNMP licence	is activated for LIFETIME
POCSAG licence	is activated for LIFETIME
MTCS licence	is activated for LIFETIME
Simulcast licence	is activated for LIFETIME
P25 licence	is activated for LIFETIME
TX licence	is activated for LIFETIME
SIP licence	is activated for LIFETIME
Amateur Radio Features licence	has EXPIRED
Raw Port licence	has EXPIRED
Audio from web licence	is activated for LIFETIME
VVF Features licence	has EXPIRED
S-Trunking licence	has EXPIRED
1+1 redundancy licence	is activated for LIFETIME
Multi-Site Trunking licence	is activated for LIFETIME
NMS licence	has EXPIRED
TSC licence	has EXPIRED
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Number 21 licence	has EXPIRED
Number 22 licence	has EXPIRED
Number 23 licence	has EXPIRED
Number 24 licence	has EXPIRED
Number 25 licence	has EXPIRED
Number 26 licence	has EXPIRED
Number 27 licence	has EXPIRED
Number 28 licence	has EXPIRED
Number 29 licence	has EXPIRED
Number 30 licence	has EXPIRED
Region	World Wide

3 Licences Requirement
3.3 Licences for S-Trunking

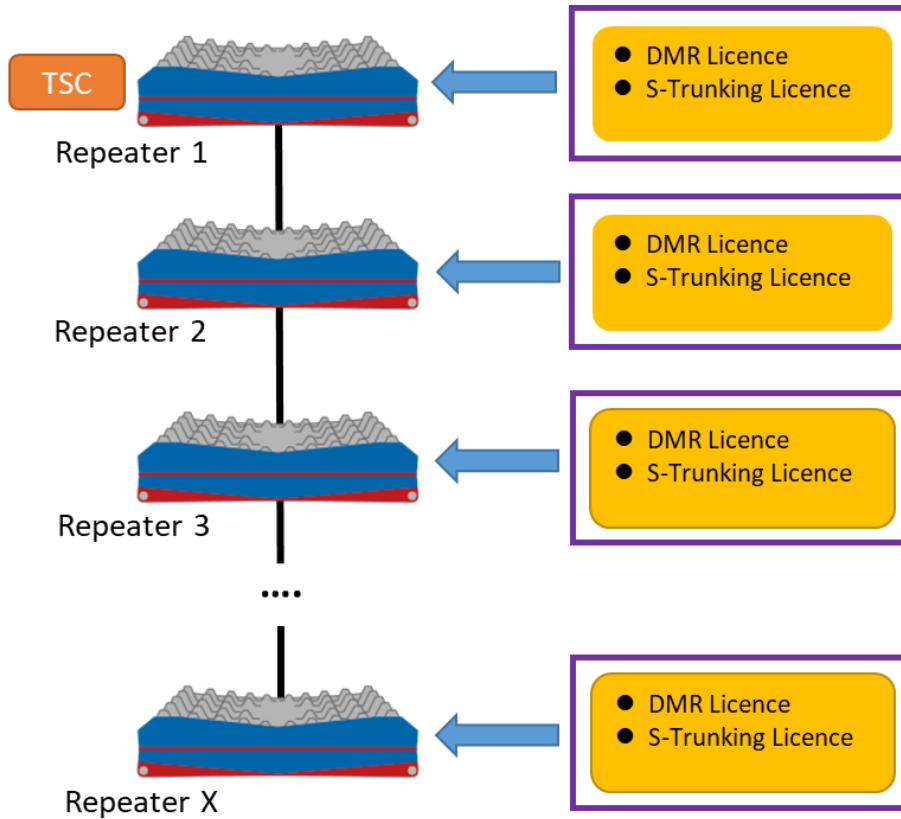
3.3. Licences for S-Trunking

3.3.1. Single Site system

DMR licence and S-Trunking licence are necessary for each KAIROS.

NMS licence and TSC licence are not necessary.

Following figure describes a centralized controller system.



3 Licences Requirement

3.3 Licences for S-Trunking

Licences for Each Repeaters						
● S-Trunking ● Single Site				TSC	Non-TSC	
DMR	Tier 3	Simulcast	Multi-Site Trunking	S-Trunking	NMS	TSC
required	must be expired (see note)	n/a	n/a	required	n/a	n/a

Important Note: Please don't make Tier 3 licence to be activated, because it takes a priority over S-Trunking licence and a repeater doesn't work as an S-Trunking node. Please see Appendix A if it needs to switch a repeater from DMR Tier III to S-Trunking.

Current keys status:	
DMR licence	is activated for LIFETIME
Analog licence	is activated for LIFETIME
Tier 3 licence	has EXPIRED
Net Control licence	is activated for LIFETIME
SNMP licence	is activated for LIFETIME
POCSAG licence	is activated for LIFETIME
MTCS licence	is activated for LIFETIME
Simulcast licence	has EXPIRED
P25 licence	is activated for LIFETIME
TX licence	is activated for LIFETIME
SIP licence	is activated for LIFETIME
Amateur Radio Features licence	has EXPIRED
Raw Port licence	has EXPIRED
Audio from web licence	is activated for LIFETIME
VVF Features licence	has EXPIRED
S-Trunking licence	is activated for LIFETIME
1+1 redundancy licence	is activated for LIFETIME
Multi-Site Trunking licence	has EXPIRED
NMS licence	has EXPIRED
TSC licence	has EXPIRED
Number 20 licence	has EXPIRED
Number 21 licence	has EXPIRED
Number 22 licence	has EXPIRED
Number 23 licence	has EXPIRED
Number 24 licence	has EXPIRED
Number 25 licence	has EXPIRED
Number 26 licence	has EXPIRED
Number 27 licence	has EXPIRED
Number 28 licence	has EXPIRED
Number 29 licence	has EXPIRED
Number 30 licence	has EXPIRED
Region	World Wide

3 Licences Requirement

3.3 Licences for S-Trunking

3.3.2. Multi-Site system

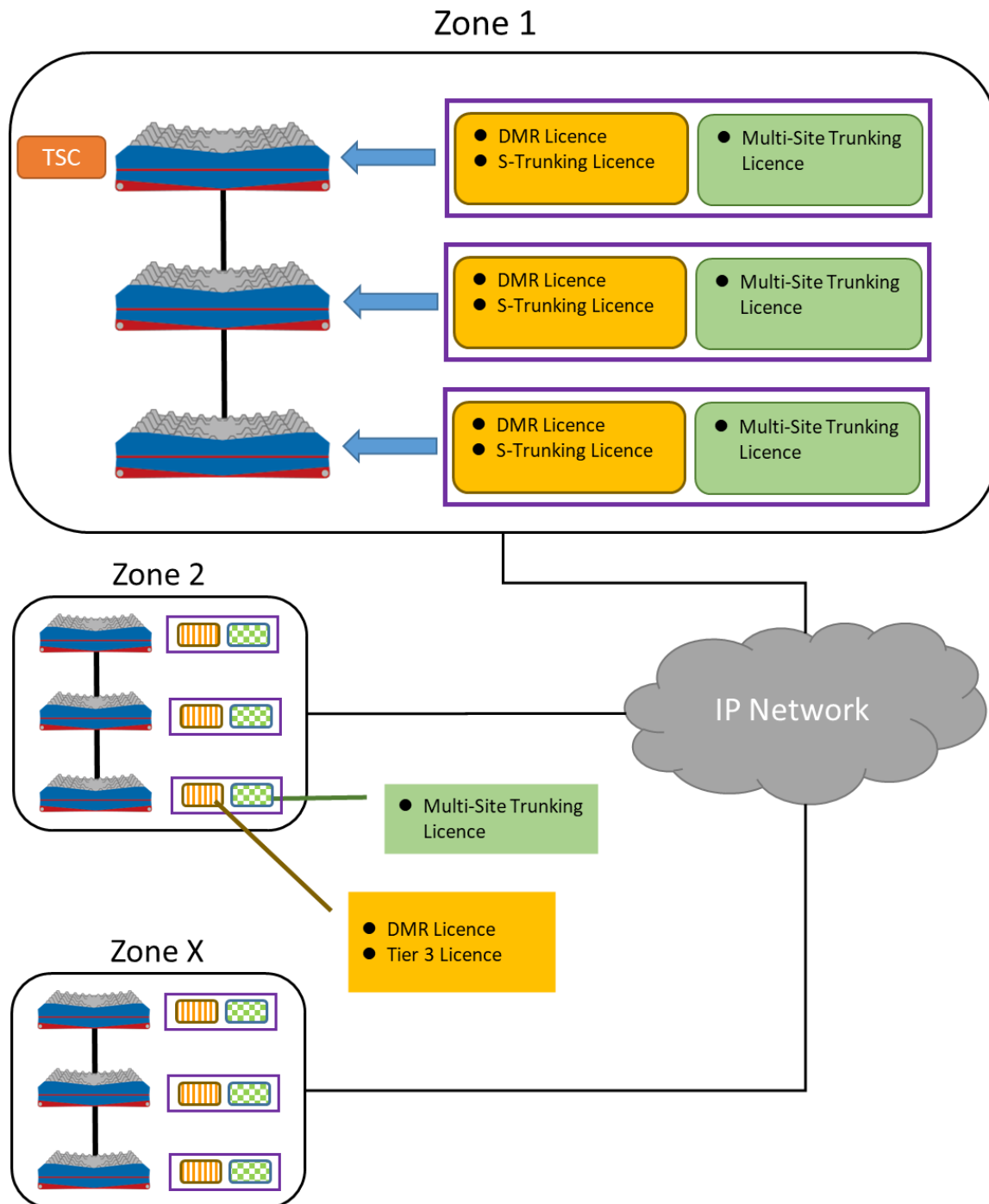
Note: Multi-Site System for S-Trunking is available now (November 2019 update.)

DMR licence and S-Trunking licence are necessary for each KAIROS.

Multi-Site Trunking licence is also necessary for each KAIROS.

NMS licence and TSC licence are not necessary.

Following figure describes a centralized controller system.



3 Licences Requirement

3.3 Licences for S-Trunking

Licences for Each Repeaters					TSC	Non-TSC
● S-Trunking ● Multi-Site						
DMR	Tier 3	Simulcast	Multi-Site Trunking	S-Trunking	NMS	TSC
required	must be expired (see note)	n/a	required	required	n/a	n/a

Important Note: Please don't make Tier 3 licence to be activated, because it takes a priority over S-Trunking licence and a repeater doesn't work as an S-Trunking node. Please see Appendix A if it needs to switch a repeater from DMR Tier III to S-Trunking.

Current keys status:	
DMR licence	is activated for LIFETIME
Analog licence	is activated for LIFETIME
Tier 3 licence	has EXPIRED
Net Control licence	is activated for LIFETIME
SNMP licence	is activated for LIFETIME
POCSAG licence	is activated for LIFETIME
MTCS licence	is activated for LIFETIME
Simulcast licence	has EXPIRED
P25 licence	is activated for LIFETIME
TX licence	is activated for LIFETIME
SIP licence	is activated for LIFETIME
Amateur Radio Features licence	has EXPIRED
Raw Port licence	has EXPIRED
Audio from web licence	is activated for LIFETIME
VVF Features licence	has EXPIRED
S-Trunking licence	is activated for LIFETIME
1+1 redundancy licence	is activated for LIFETIME
Multi-Site Trunking licence	is activated for LIFETIME
NMS licence	has EXPIRED
TSC licence	has EXPIRED
Number 20 licence	has EXPIRED
Number 21 licence	has EXPIRED
Number 22 licence	has EXPIRED
Number 23 licence	has EXPIRED
Number 24 licence	has EXPIRED
Number 25 licence	has EXPIRED
Number 26 licence	has EXPIRED
Number 27 licence	has EXPIRED
Number 28 licence	has EXPIRED
Number 29 licence	has EXPIRED
Number 30 licence	has EXPIRED
Region	World Wide

Appendix A

A.1 Switching a licence from DMR Tier III to S-Trunking

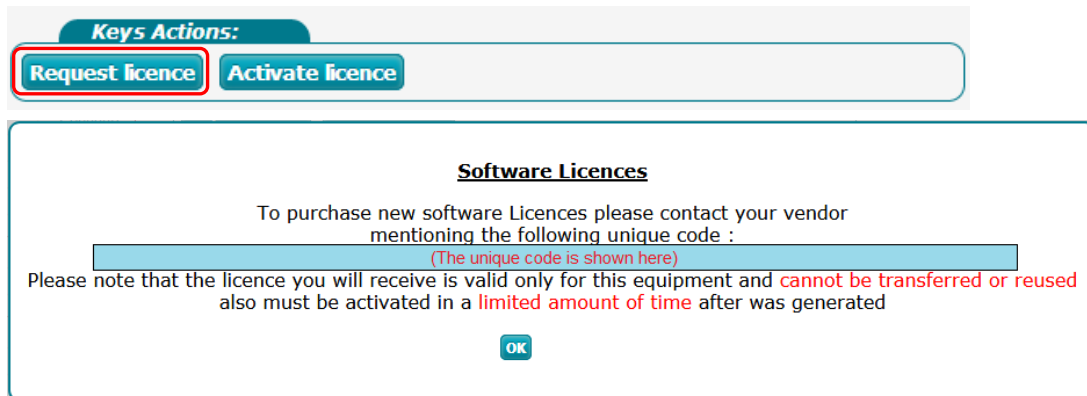
APPENDIX

Appendix A

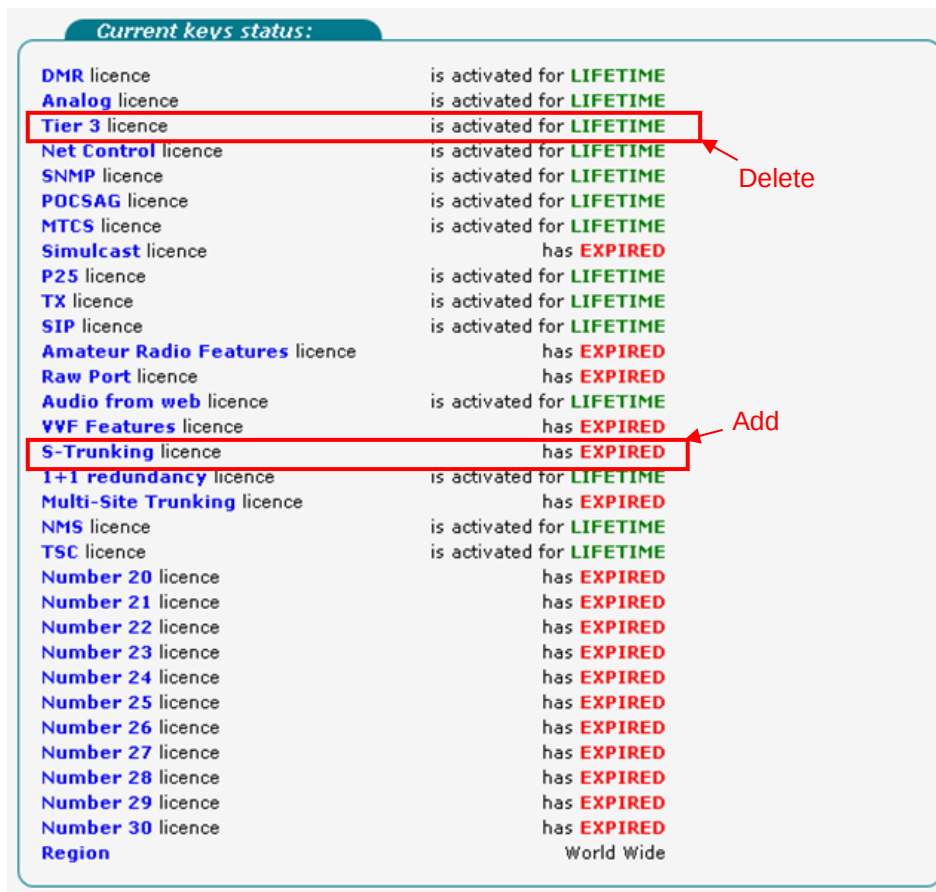
In the KAIROS licence rule, Tier 3 licence takes a priority over S-Trunking licence, and a repeater doesn't work as an S-Trunking node even if S-Trunking licence is activated. Therefore, switching a repeater from DMR Tier III to S-Trunking requires to deactivate Tier 3 licence.

A.1 Switching a licence from DMR Tier III to S-Trunking

At first, open the "Request licence" dialog on KAIROS Web Interface (Setup>Keys>Key Actions). Please take a memo of the unique code shown on the dialog.



Next step, please inform the unique code to order adding S-trunking licence and deleting Tier 3 licence.



Appendix A

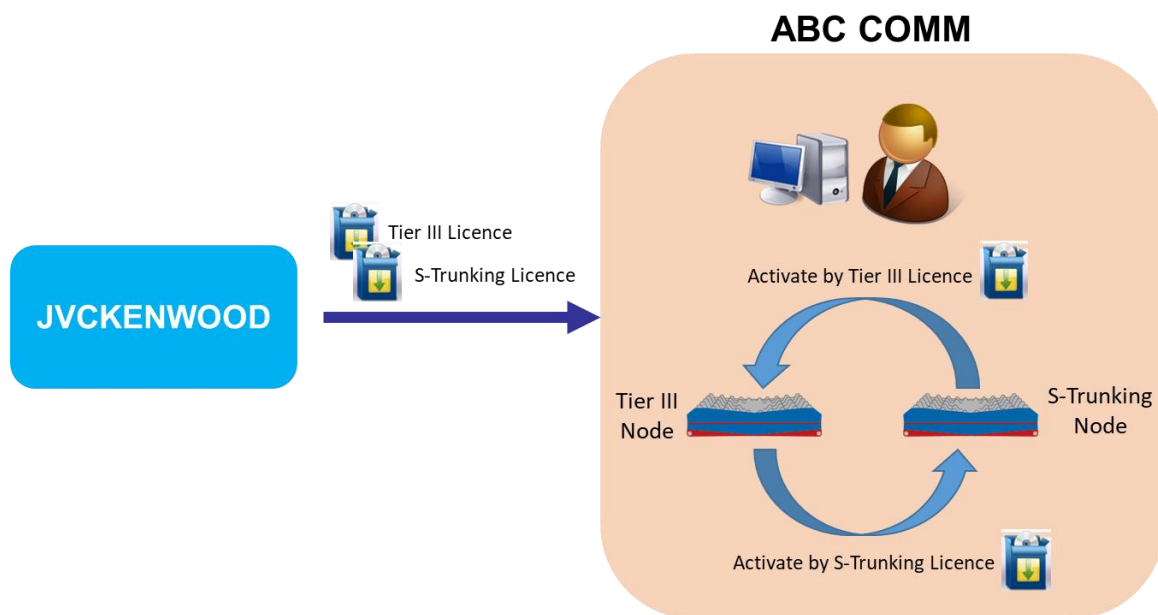
A.1 Switching a licence from DMR Tier III to S-Trunking

Finally, open the “Activate licence” dialog on KAIROS Web Interface (Setup>Keys>Key Actions).

Please enter the new software licence you have purchased from JVCKENWOOD and click “Activate licence/s”.

The screenshot shows the 'Keys Actions' dialog box. At the top, there are two buttons: 'Request licence' and 'Activate licence'. The 'Activate licence' button is highlighted with a red border. Below this, the 'Software Licences' section is visible. It contains the text: 'Please insert the new software Licence (generated for this equipment with the unique code:'. Below this text is a text input field with a placeholder '(The unique code is shown here)'. To the right of the input field is a button labeled 'Activate licence/s'. At the bottom center of the dialog is an 'OK' button.

If you are going to use S-Trunking in a trial and often switch the repeater between DMR Tier III Trunking and S-Trunking, please order restoring Tier 3 licence together when you order S-Trunking licence.



Important Note:

You are able to switch the repeater between DMR Tier III and S-Trunking if you have the activation code for both. But, the activation code received from JVCKENWOOD is valid for 30 days and can't be used when it expired.