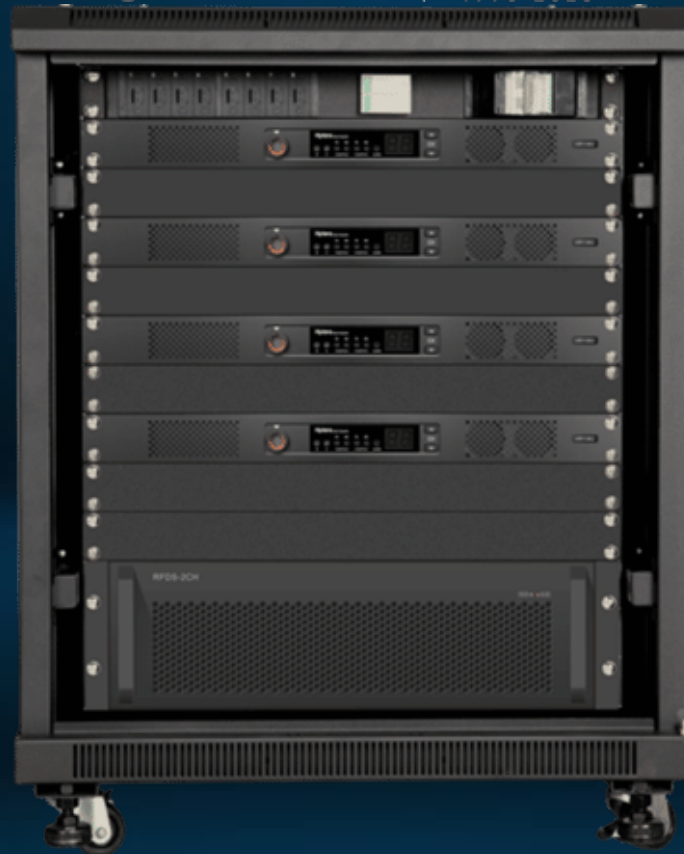


Visão geral e Programação



Julio Roland
Engineer Support



XPT

XPT



Hytera

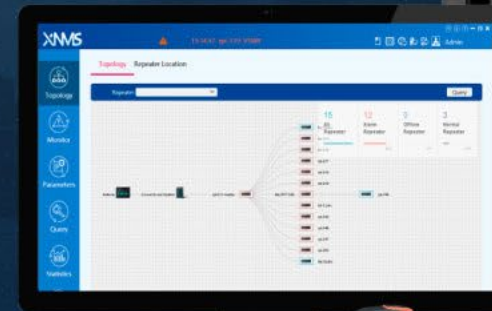
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NOVO CONTEÚDO | Sistemas e Configurações

www.hyterawingsuniversity.com.br



- IP Transit
- Smart One - Convencional
- Smart One - XPT
- Anúncio de canal



XPT



Extended Pseudo Trunk

1993-2023

Stay
True to
Our
Mission



Conteúdo

- 1. Visão geral da Tecnologia**
- 2. Produtos & Serviços**
- 3. Desenhos de Rede**
- 4. Mercados Verticais**
- 5. Programação**



Visão geral da Tecnologia

Descrição do Sistema

Extended Pseudo Trunk (XPT) é uma solução de sistema Trocalizado distribuído, desenvolvida com base na tecnologia *Pseudo Trunk da Hytera*.

O sistema XPT tem três vantagens principais:

- Sem canais de controle dedicados
- Baixo custo de construção de plataforma
- Balanceamento de carga



Como funciona ?



TDMA 2 slots



Pseudo Trunk



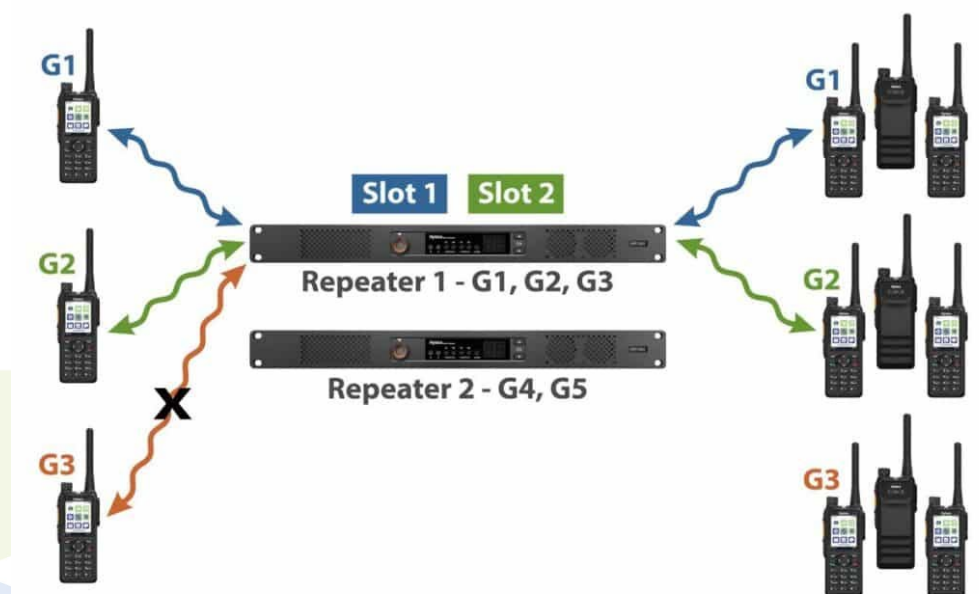
XPT

- **Home Repeater**
- **Home Group**
- **Free Repeater**

Cada rádio deve atribuir um repetidor neste no site como seu *Home Repeater*.

Quando o seu Home Repeater estiver inativo ou ocupado o rádio sempre monitorará seu repetidor para determinar se alguma chamada será feita através dele.

O rádio vai iniciar uma chamada **preferencialmente** no slot do seu Home Repeater da última transmissão.

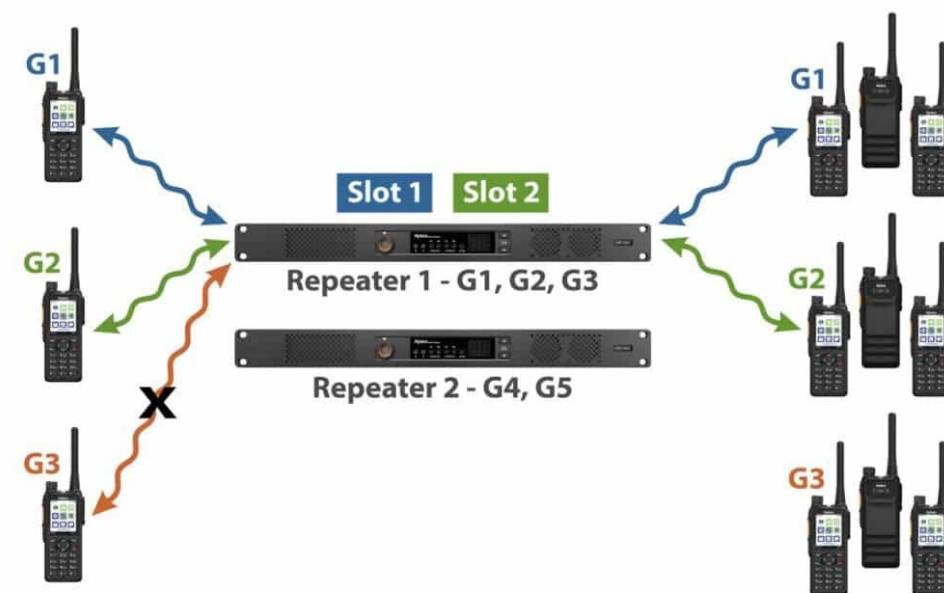


- **Home Repeater**
- **Home Group**
- **Free Repeater**

No XPT, um repetidor pode ser atribuído a um ou mais Home Groups, que operam em um repetidor.

Os *Home Groups* de diferentes repetidores no mesmo local devem ser **exclusivos**.

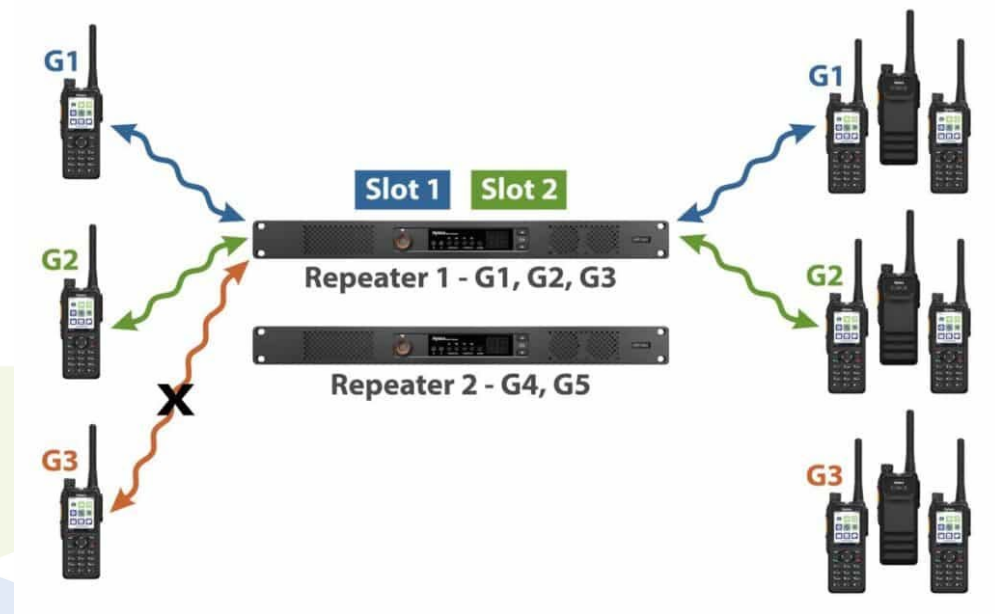
Ao atribuir diferentes grupos como Home Groups de diferentes repetidores, o sistema pode alocar chamadas em grupo de diferentes grupos para vários repetidores para processamento, para evitar que um repetidor fique sobrecarregado devido a chamadas de grupo massivas ou solicitações de serviço de dados.



- Home Repeater
- Home Group
- Free Repeater

Em cada site XPT, qualquer repetidor de voz registrado com um ou dois slots ociosos pode ser atribuído como *Free repeater*.

Quando o *Home Repeater* estiver ocupado, o rádio mudará para o canal onde o Free Repeater estiver operando livre.



2

Produtos & Serviços



IS e ATEX



HP5



HP6



HP7



RD986S



HR1066

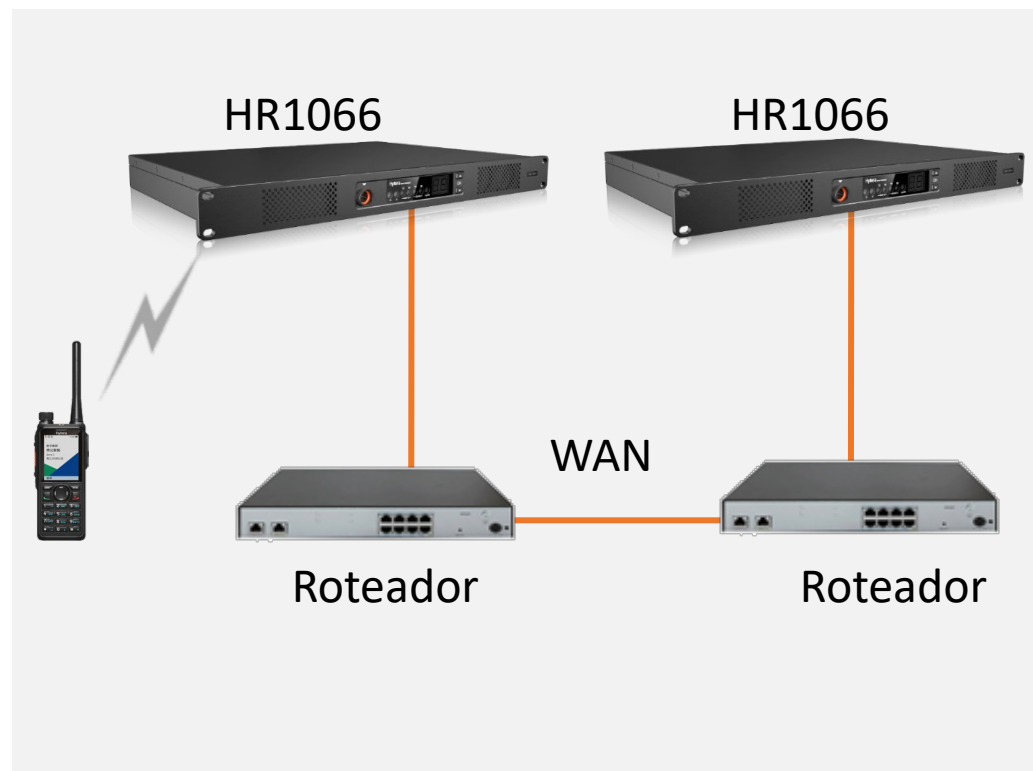


HM786

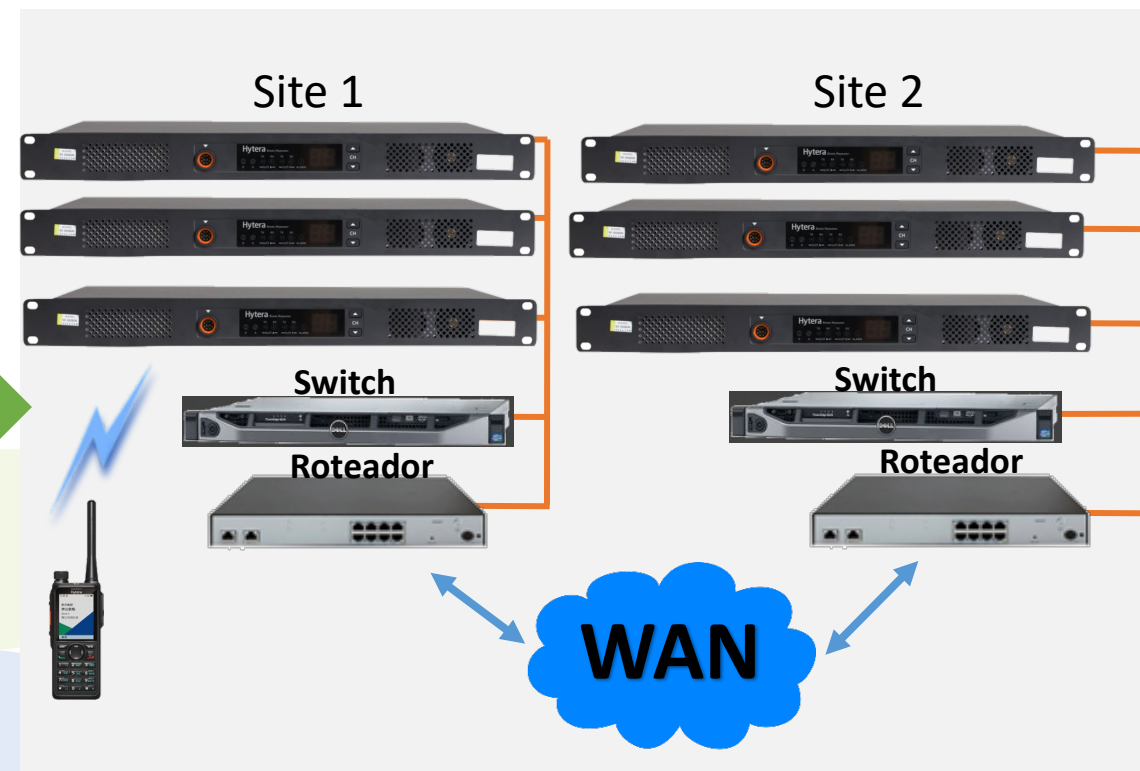


HM686

Migração para o XPT



Sistema convencional



XPT

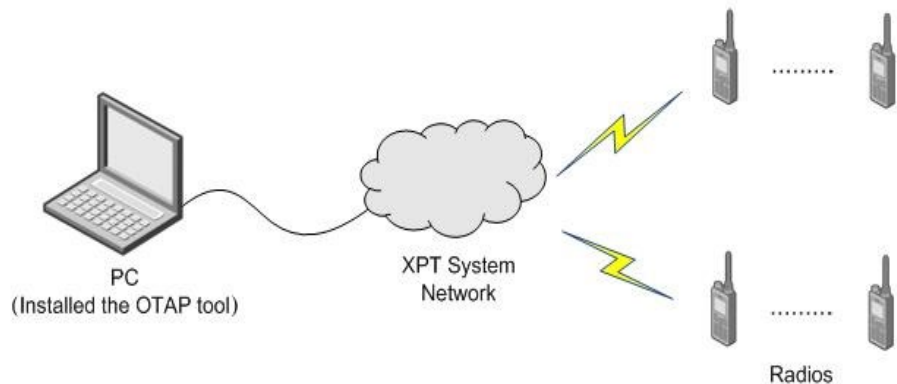
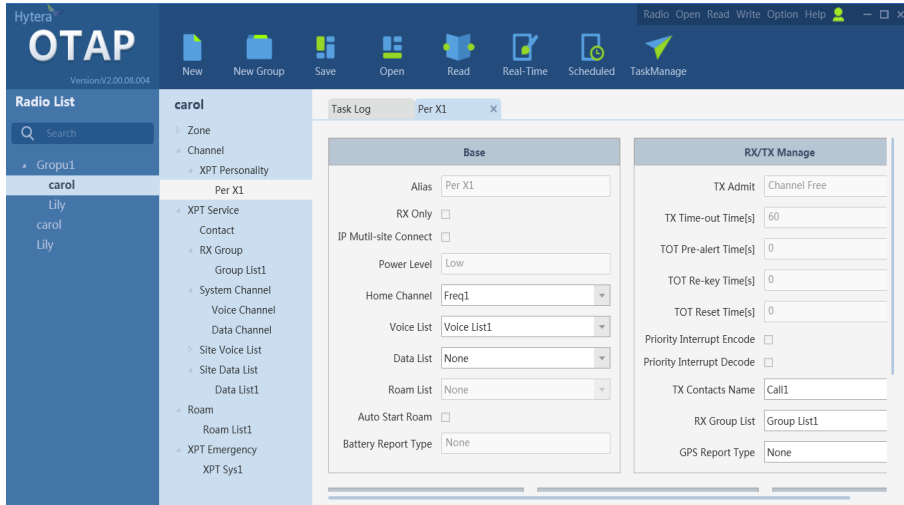
Hardware 100% reutilizado !!

Funcionalidades

- Chamada de Alerta
- Monitor Remoto
- Habilitar e Desabilitar
- Verificar Rádio
- Alarme de Emergência
- GPS
- OTAP
- Handover
- Repetidor Dedicado para-Dados
- Criptografia
- Lone Worker
- Man Down
- Gerenciamento de Acesso
- Prioridade de Interrupção
- Roaming
- SIP
- Autenticação
- Repetidor Backup
- Upgrade Remoto

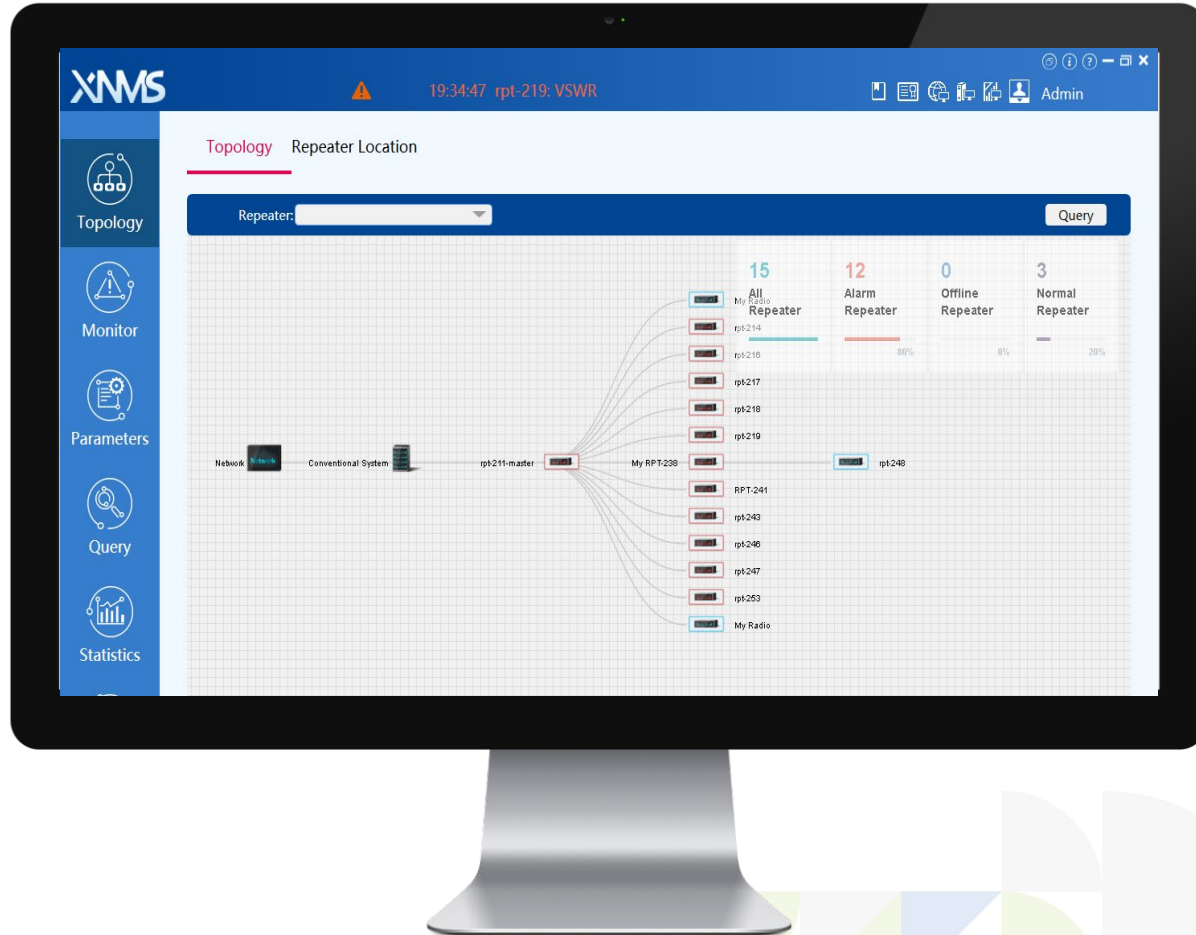


Programação via RF



XPT

- Canal do sistema
- Lista de Voz por site
- Lista de Dados por site
- Lista de Roaming
- XPT Emergência
- Zona
- XPT Personality
- Contatos
- Grupos de RX



- Monitor em Tempo Real
- Configurar remotamente
- Exportar Relatórios & Estatísticas
- Exibir informações RSSI no mapa
- Consultar Relatórios & Estatísticas
- Alarmes via Email

Capacidade do Sistema

- Até 12 Repetidores de Voz **NEW!**
- Até 16 Repetidores de Dados
- Multi Site – Até 30 sites **NEW!**
- **SEM CANAL DE CONTROLE**
- Autenticação
- UHF1 , UHF3 e VHF
- Potência de RF – 50w
- Até 1200 Usuários
- 240 Grupos





Desenhos de Rede

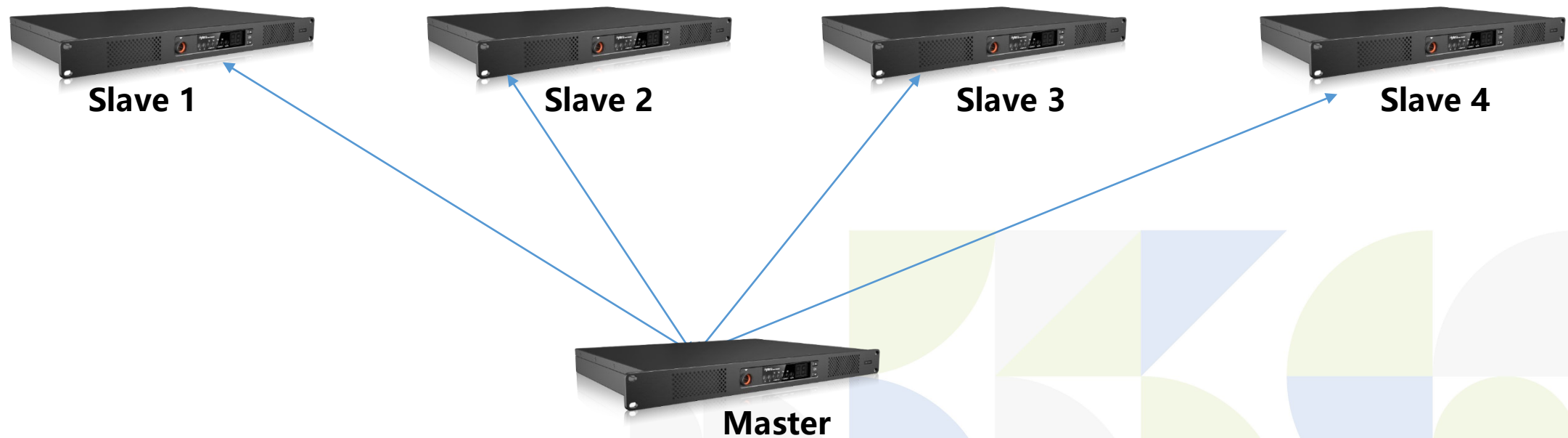
Exemplo de aplicação 1

- Site único
- 04 Repetidoras
- HP506 / HP566



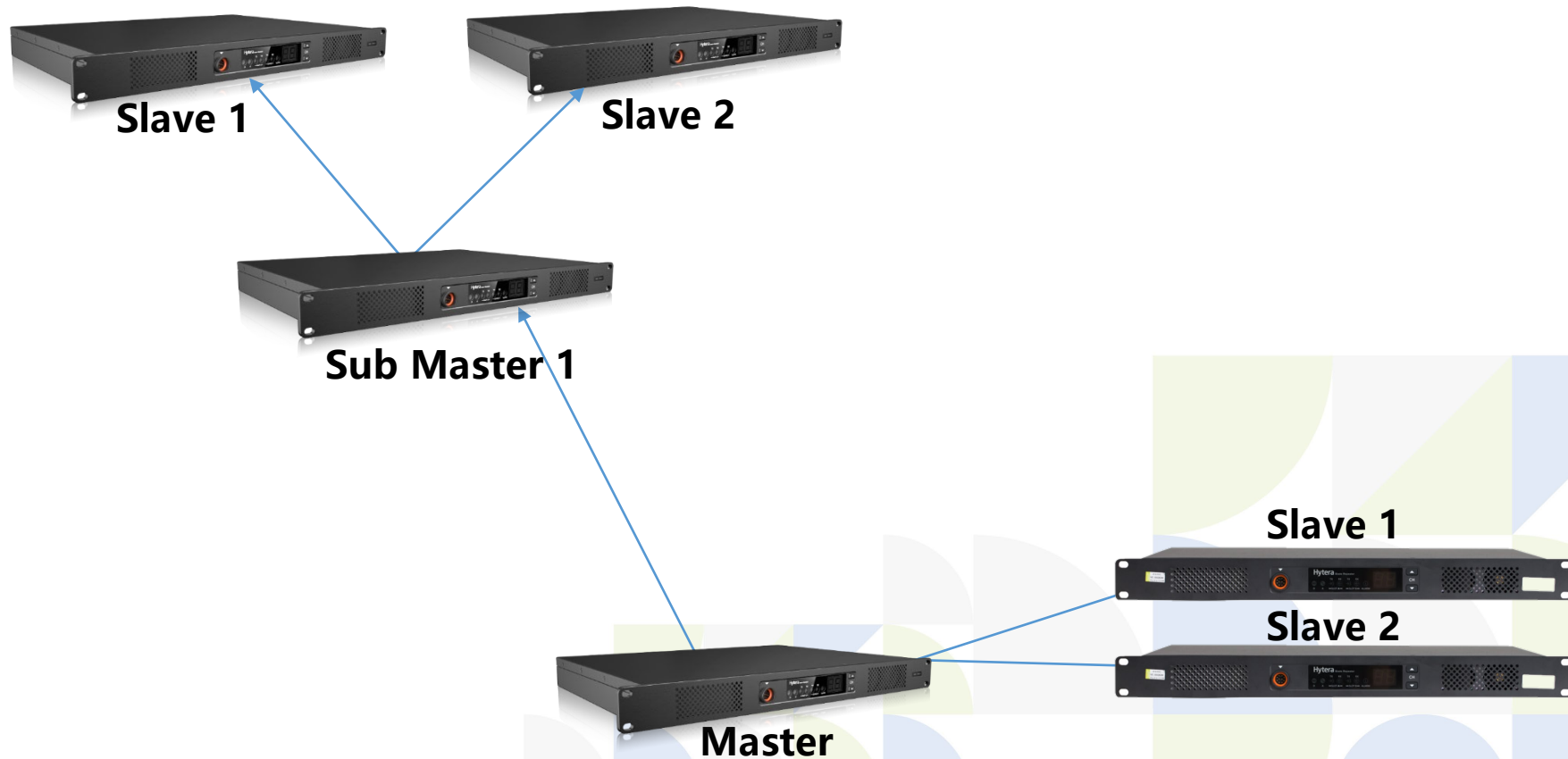
Exemplo de aplicação 2

- Multi sites



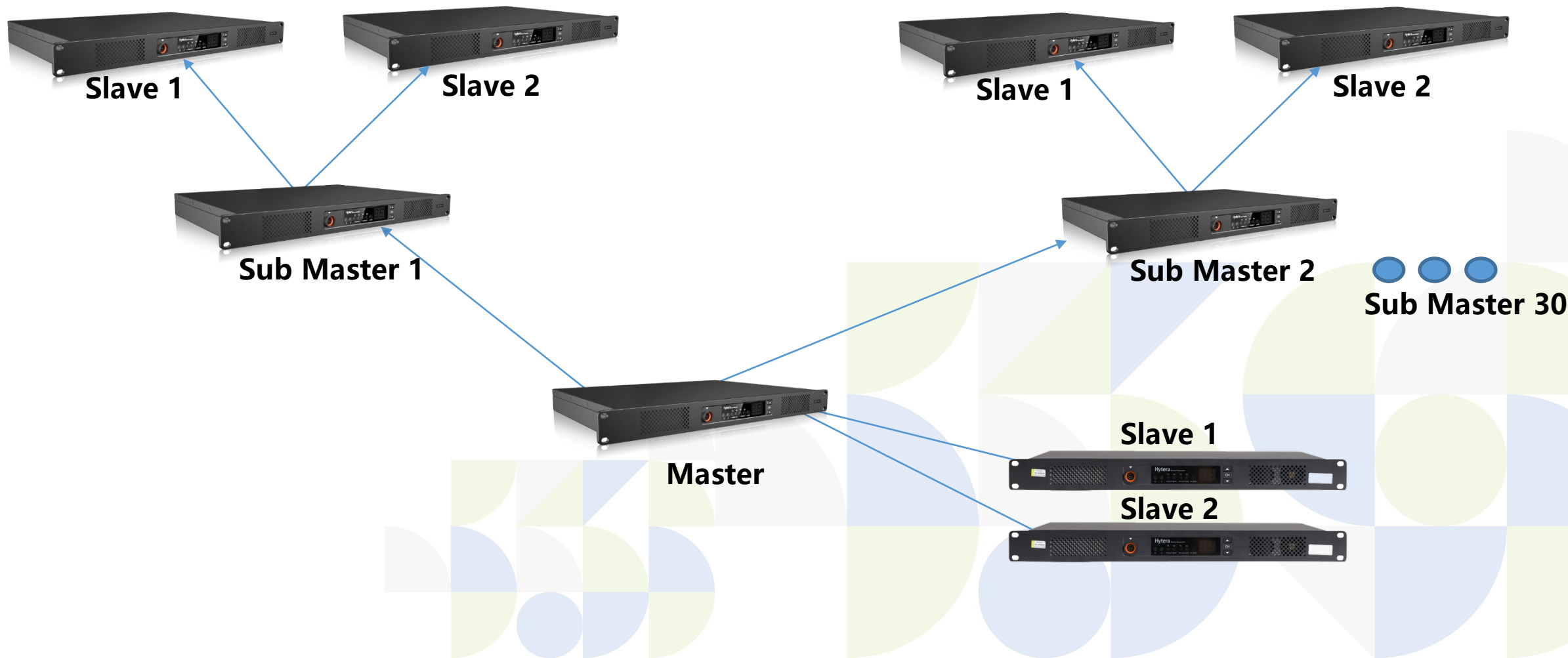
Exemplo de aplicação 3

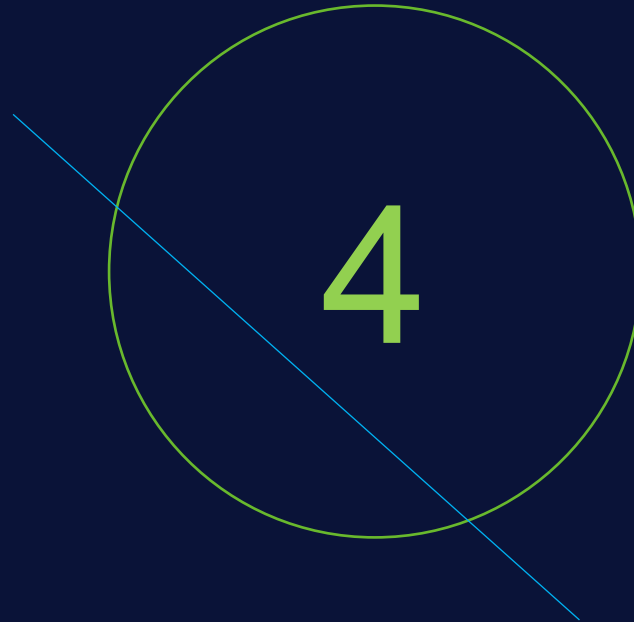
- Multi sites



Exemplo de aplicação 4

Multi sites





Mercados Verticais

- Grande quantidade de Usuários
- Grande quantidade de Grupos
- Área de cobertura pequena
- Rádios Intrinsecamente seguros

Portos

An aerial night view of a port. A large cruise ship is docked on the left, and a container ship is being loaded by a gantry crane in the center. The port is filled with stacks of colorful containers and illuminated by warm lights.

Industria

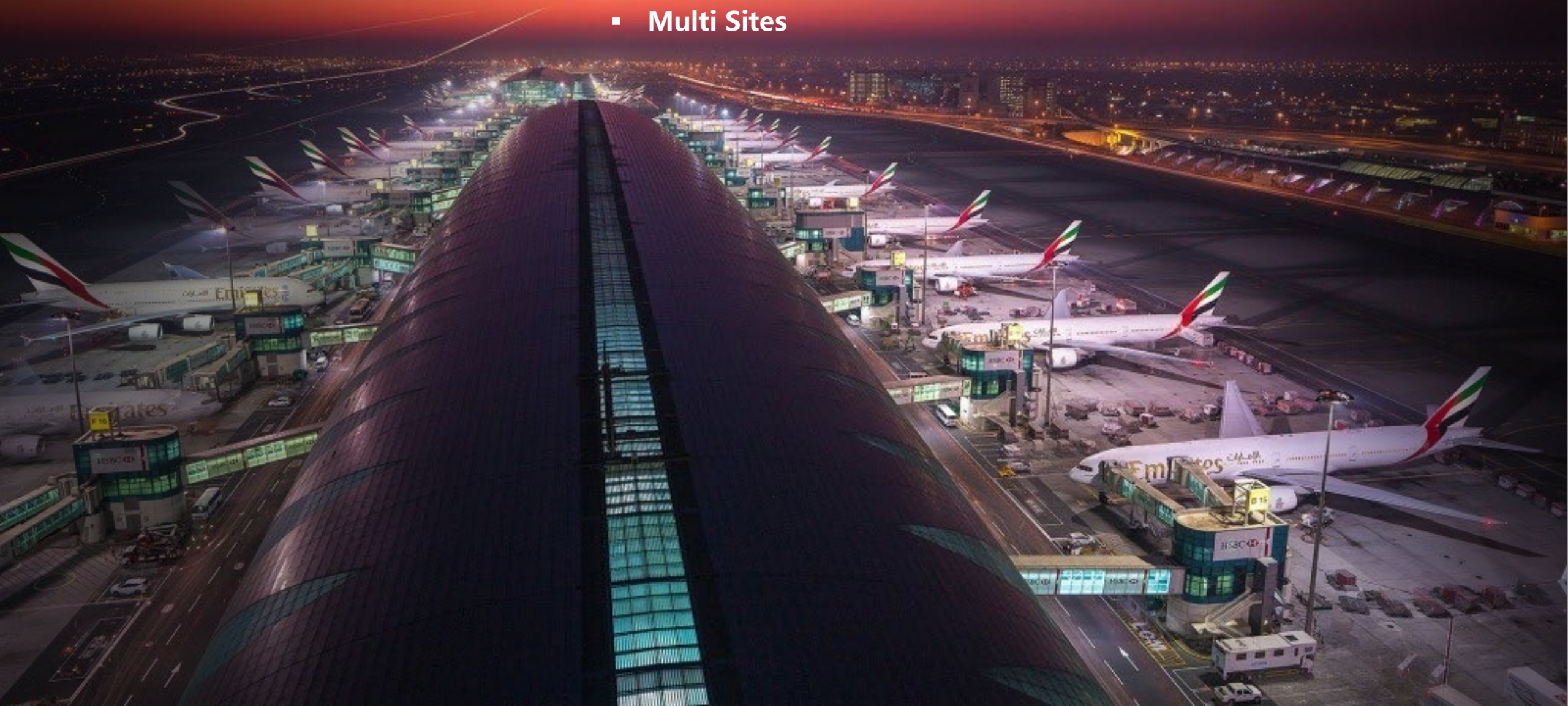
- Grande quantidade de Usuários
- Grande quantidade de Grupos
- Rádios Intrinsecamente seguros
- Multi Site

Hytera

30th
1993-2023

Aeroporto

- Grande quantidade de Usuários
- Grande quantidade de Grupos
- Área de cobertura pequena
- Multi Sites



Guarda Municipal

- Grande quantidade de Usuários
- Grande quantidade de Grupos
- Grande área de cobertura
- Multi Sites
- Software de Despacho
- Rádios móveis



GUARDA
MUNICIPAL

Shopping

- Grande quantidade de Usuários
- Grande quantidade de Grupos
- Multi Sites
- Área de cobertura pequena

Operadores

- Grande quantidade de Usuários
- Grande quantidade de Grupos
- Grande área de cobertura
- Multi Sites
- Software de despacho
- Gerenciamento



Programação



Exemplo de Aplicação 1

- Site único
- 02 Repetidoras
- HP566

HR1066

Repetidora Master

The screenshot displays the configuration interface for the HR1066 device. On the left is a navigation tree with the following items: HR1066, Radio Information, Common, XPT Trunking, General Setting, Setting, Accessories, Network (highlighted with a blue box), IP Configuration, Access Manager, CWID, Zone, Channel, Digital Common, XPT Service, AIS, Fusion System, Phone, and PBX. The main area shows the 'IP Connect Configuration' window with the following settings:

Parameter	Value
Repeater Type	Master
Jitter Buffer Length	1
Network Authentication Key	1234567890
Master IP	0 . 0 . 0 . 0
Master UDP Port	50000
IP Connect Networking UDP Port	50000
P2P Firewall Open Timer[sec]	6
Voice & Data UDP Port	50001
Service Control Port	50003
Master Domain Name On/Off	<input type="checkbox"/>
Domain Names	

HR1066

Repetidora Master

The screenshot displays the configuration interface for the HR1066 device. On the left is a tree view of the configuration menu, with 'IP Configuration' highlighted. The main area shows the 'IP Configuration' settings for a 'Switch'.

IP Configuration

IP Setting Mode: Switch

Switch Configuration

IP Type	Static
IP Address	192 . 168 . 10 . 100
Netmask	255 . 255 . 255 . 0
Gateway IP	192 . 168 . 10 . 1
DNS Server IP	8 . 8 . 8 . 8
MAC Address	64 69 BC 24 93 BD

HR1066

Repetidora Master

HR1066

- Radio Information
- Common
- XPT Trunking
 - General Setting
 - Zone
 - Channel
 - XPT Channel
 - Webinar XPT
 - Digital Common
 - XPT Service
 - AIS
 - Fusion System
 - Phone
 - PBX

Channel Alias: Webinar XPT (The actual display may change,)

Color Code: 1

Interference Detection: Disable

RSSI Threshold: -100

RX Frequency [MHz]: 459.000000

Offset [MHz]: 10.000000

TX Frequency [MHz]: 469.000000

Power Level: Low

Copy

HR1066

Repetidora Master

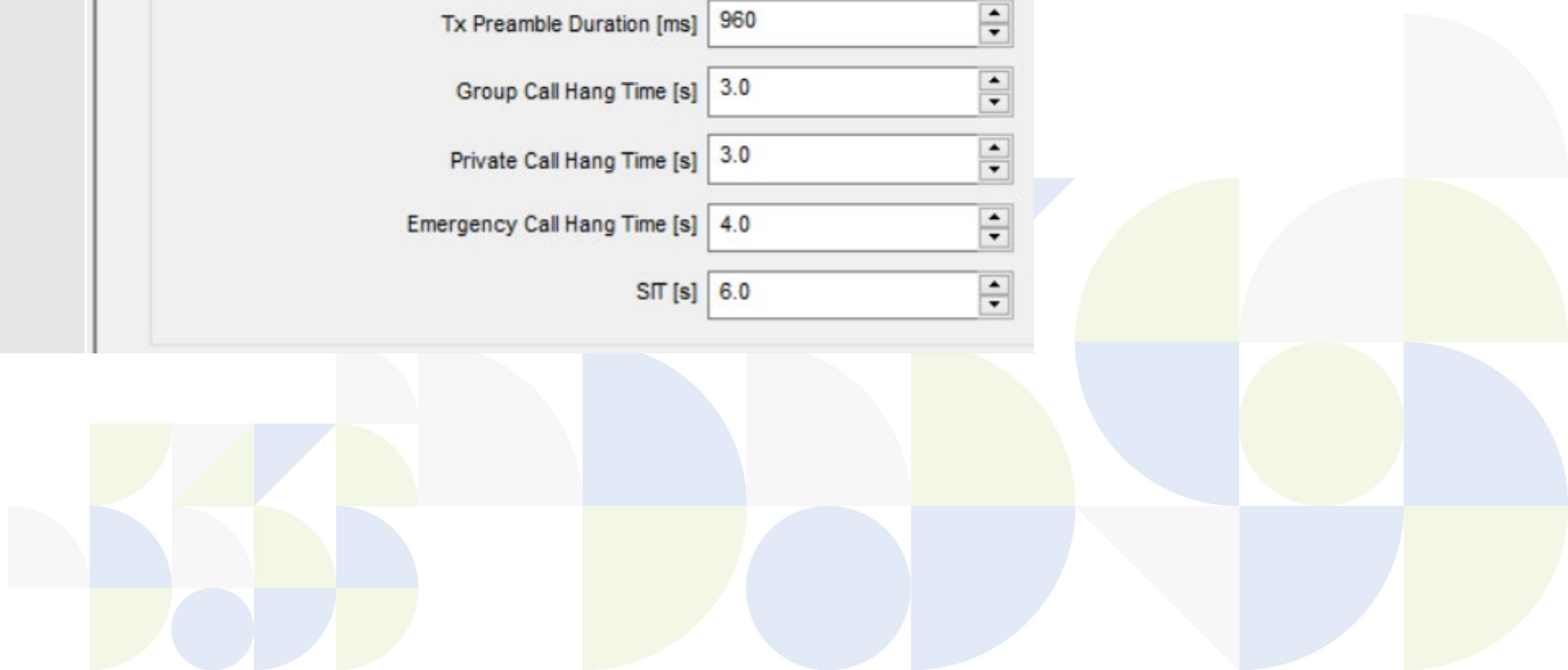
The screenshot displays the configuration interface for the HR1066 device. On the left is a tree view of the configuration structure, and on the right is the 'Basic Setting' configuration page.

Configuration Tree (Left):

- HR1066
 - Radio Information
 - Common
 - XPT Trunking
 - General Setting
 - Zone
 - Channel
 - Digital Common
 - Basic** (Selected)
 - Encrypt
 - XPT Service
 - AIS
 - Fusion System
 - Phone
 - PBX

Basic Setting (Right):

- Radio ID: 100
- Increase After Written:
- Tx Preamble Duration [ms]: 960
- Group Call Hang Time [s]: 3.0
- Private Call Hang Time [s]: 3.0
- Emergency Call Hang Time [s]: 4.0
- SIT [s]: 6.0



HR1066

Repetidora Master

The screenshot displays the configuration interface for HR1066. On the left is a tree view with the following structure:

- HR1066
 - Radio Information
 - Common
 - XPT Trunking
 - General Setting
 - Zone
 - Channel
 - Digital Common
 - XPT Service
 - Setting
 - Home Group List
 - AIS
 - Fusion System
 - Phone
 - PBX

The main area shows the "Site Setting" configuration page with the following parameters:

- Repeater Index: 1
- Site ID: 1
- Beacon Duration[ms]: 480
- Beacon Interval[ms]: 2160
- Repeater Service Type: Voice Repeater
- Voice Repeater In-Site Num: 2
- Dedicated CH for Priority Interrupt:
- Single Station Paging:

HR1066

Repetidora Master

The screenshot displays the HR1066 software interface. On the left is a tree view of the configuration menu. The 'Home Group List' option is selected and highlighted with a blue box. The main area on the right shows a table titled 'Home Group ID List' with the following data:

No.	Repeater Index	Home Group ID
1	1	10
2	1	11
3	2	20
4	2	21
5	3	30
6	3	31
7	4	40
8	4	41

HR1066

Repetidora Slave

The screenshot displays the configuration interface for the HR1066 device. On the left is a tree view of configuration categories, with 'Network' highlighted. The main area shows the 'IP Connect Configuration' window, which is highlighted with a blue border. The configuration parameters are as follows:

Parameter	Value
Repeater Type	Slave
Jitter Buffer Length	1
Network Authentication Key	1234567890
Master IP	192 . 168 . 10 . 100
Master UDP Port	50000
IP Connect Networking UDP Port	50000
P2P Firewall Open Timer[sec]	6
Voice & Data UDP Port	50001
Service Control Port	50003
Master Domain Name On/Off	<input type="checkbox"/>
Domain Names	

HR1066

Repetidora Slave

The screenshot displays the configuration interface for the HR1066 device. On the left is a tree view of configuration categories, with 'IP Configuration' selected and highlighted in blue. The main area shows the 'IP Configuration' settings for a 'Switch' mode. A blue box highlights the 'Switch Configuration' section, which includes the following fields:

- IP Setting Mode: Switch
- IP Type: Static
- IP Address: 192 . 168 . 10 . 50
- Netmask: 255 . 255 . 255 . 0
- Gateway IP: 192 . 168 . 10 . 1
- DNS Server IP: 8 . 8 . 8 . 8
- MAC Address: 64 69 BC 24 93 BD

HR1066

Repetidora Slave

The screenshot displays the configuration interface for the HR1066 device. On the left is a tree view of the configuration structure:

- HR1066
 - Radio Information
 - Common
 - XPT Trunking
 - General Setting
 - Zone
 - Channel
 - XPT Channel
 - SLAVE**
 - Digital Common
 - XPT Service
 - AIS
 - Fusion System
 - Phone
 - PBX

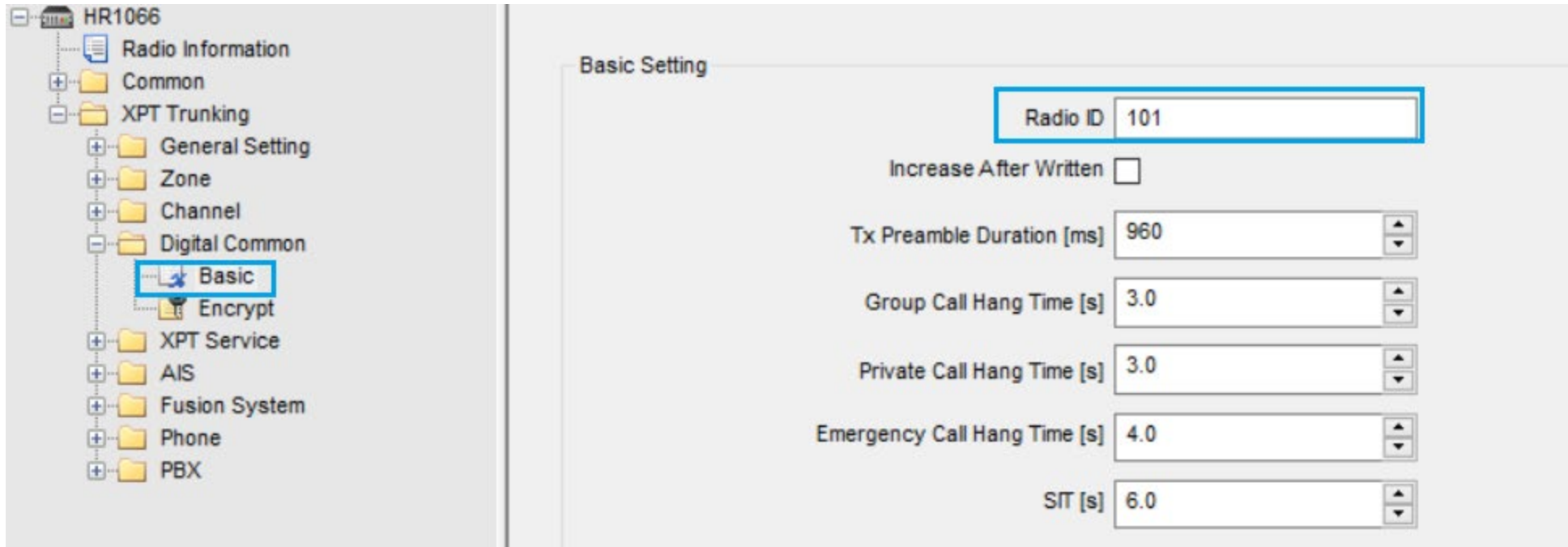
The main configuration area shows the following settings for the selected 'SLAVE' channel:

- Channel Alias: SLAVE (The actual display may change, See the...)
- Color Code: 1
- Interference Detection: Disable
- RSSI Threshold: -100
- RX Frequency [MHz]: 459.250000
- Offset [MHz]: 10.000000
- TX Frequency [MHz]: 469.250000
- Power Level: Low

A 'Copy' button is located below the RX and TX frequency fields.

HR1066

Repetidora Slave



HR1066

- Radio Information
- Common
- XPT Trunking
 - General Setting
 - Zone
 - Channel
 - Digital Common
 - Basic**
 - Encrypt
 - XPT Service
 - AIS
 - Fusion System
 - Phone
 - PBX

Basic Setting

Radio ID: 101

Increase After Written:

Tx Preamble Duration [ms]: 960

Group Call Hang Time [s]: 3.0

Private Call Hang Time [s]: 3.0

Emergency Call Hang Time [s]: 4.0

SIT [s]: 6.0

HR1066

Repetidora Slave

The screenshot displays the HR1066 software interface. On the left, a tree view shows the following structure:

- HR1066
 - Radio Information
 - Common
 - XPT Trunking
 - General Setting
 - Zone
 - Channel
 - Digital Common
 - XPT Service
 - Setting (highlighted)
 - AIS
 - Fusion System
 - Phone
 - PBX

The main area on the right is titled 'Site Setting' and contains the following configuration options:

- Repeater Index: 2
- Site ID: 1
- Beacon Duration[ms]: 480
- Beacon Interval[ms]: 2160
- Repeater Service Type: Voice Repeater
- Single Station Paging:

HP566

HP56X

- Radio Information
- Common
- Conventional
- XPT Trunking
 - General Setting
 - Zone
 - Channel
 - Digital Common
 - XPT Service
 - Contact**
 - RX Group
 - System Channel
 - Site Voice List
 - Site Data List
 - Setting
 - Emergency
 - Phone

Contact List

Contact List Sort

Info1 Info1

Info2 Info2

Info3 Info3

No.	Call Alias	Call Type	Call ID
1	G1	XPT Group Call	10
2	G2	XPT Group Call	11
3	G3	XPT Group Call	20
4	G4	XPT Group Call	21
5	EMERGENCIA	XPT Emergency Group Call	250

HP566

The screenshot displays the configuration interface for the HP566 system. On the left is a tree view of the configuration structure, and on the right is the main configuration area for the RX Group List Alias.

Left Panel (Tree View):

- HP56X
 - Radio Information
 - Common
 - Conventional
 - XPT Trunking
 - General Setting
 - Zone
 - Channel
 - Digital Common
 - XPT Service
 - Contact
 - RX Group** (highlighted)
 - G1** (highlighted)
 - G2
 - G3
 - G4
 - EMERGENCIA
 - System Channel
 - Site Voice List
 - Site Data List
 - Setting
 - Emergency
 - Phone

Main Configuration Area:

RX Group List Alias:

Available:

- G2
- G3
- G4

Members:

- G1
- EMERGENCIA

Buttons: Add >>, << Remove, UP, Down

HP566

The screenshot displays the HP566 software interface. On the left is a tree view of the configuration structure. The 'Voice Channel' item under 'System Channel' is selected and highlighted with a blue box. The main area on the right shows the 'Voice Channel Frequency List' table.

No.	Alias	RX Frequency[MHz]	Offset[MHz]	TX Frequency[MHz]	Color Code
1	Master	469.000000	-10.000000	459.000000	1
2	Slave	469.250000	-10.000000	459.250000	1

HP566

The screenshot displays the configuration interface for the HP566 device. On the left is a tree view of the configuration hierarchy. The main area shows the 'Channel List' configuration for the selected 'VOZ' site voice list.

Left Panel (Tree View):

- HP56X
 - Radio Information
 - Common
 - Conventional
 - XPT Trunking
 - General Setting
 - Zone
 - Channel
 - Digital Common
 - XPT Service
 - Contact
 - RX Group
 - System Channel
 - Site Voice List
 - VOZ**
 - Site Data List
 - Setting
 - Emergency
 - Phone

Channel List

Site Voice List Alias:

Site ID:

Dedicated CH for Priority Interrupt:

No.	Channel Alias
1	Master
2	Slave

- Add(A)
- Insert(I)
- Del(D)

HP566

The screenshot displays the configuration interface for the HP566 system. On the left is a tree view of the configuration hierarchy, and on the right are the configuration parameters for the selected emergency system.

Configuration Hierarchy (Left):

- HP56X
 - Radio Information
 - Common
 - Conventional
 - XPT Trunking
 - General Setting
 - Zone
 - Channel
 - Digital Common
 - XPT Service
 - Contact
 - RX Group
 - System Channel
 - Site Voice List
 - VOZ
 - Site Data List
 - Setting
 - Emergency
 - Lone Worker
 - XPT Emergency
 - EMERGENCIA**
 - Phone

Emergency System Configuration (Right):

- Emergency System Alias: EMERGENCIA
- Emergency Type: Alarm w/ Siren
- Emergency Mode: Alarm
- Emergency Contact: EMERGENCIA
- Alarm Retries: 5
- Alarm w/Call To Follow:
- Voice Cycles: 1
- Hot Mic Duration [s]: 10
- TX Interval Duration [s]: 10
- Emergency Priority Interrupt:
- Send Emergency Exit Message:

HP566

The screenshot displays the configuration interface for the HP566 radio. On the left is a tree view of the configuration structure. The main area is divided into several sections:

- Radio Information:** Shows the selected radio model (HP566X).
- Channel:** A tree view under 'XPT Personality' showing options G1, G2, G3, G4, and EMERGENCIA. G1 is selected.
- General Settings:**
 - Personality Alias: G1
 - RX Only:
 - IP Multi-site Connect:
 - Power Level: Low
 - Home Channel: Master
 - Voice List: VOZ
 - Data List: None
 - Auto Start Roam:
- RX/TX Manage:**
 - TX Admit: Channel Free
 - TX Time-out Time[s]: 60
 - TOT Pre-alert Time[s]: 0
 - TOT Re-key Time[s]: 0
 - TOT Reset Time[s]: 0
 - Priority Interrupt Encode:
 - Priority Interrupt Decode:
 - TX Contacts Name: G1
 - RX Group List: G1
- CH Emergency System:**
 - Emergency System: EMERGENCIA
 - Emergency Alarm Indication:
 - Emergency Call Indication:
- Miscellaneous:**
 - Battery Report Type: None
 - In Call TX Admit: Follow TX Admit
 - Beacon Interval[ms]: 2160
 - Phone System: None
 - RRS:

HP566

The screenshot displays the configuration interface for the HP566 device. On the left is a tree view of the configuration structure, with 'XPT Personality' expanded to show options G1, G2, G3, G4, and EMERGENCIA. The main area is divided into several sections:

- Personality Alias:** A text field containing 'EMERGENCIA'.
- Options:** 'RX Only' (checkbox, unchecked), 'IP Multi-site Connect' (checkbox, unchecked), and 'Auto Start Room' (checkbox, unchecked).
- Configuration Fields:** 'Power Level' (dropdown, 'Low'), 'Home Channel' (dropdown, 'Slave'), 'Voice List' (dropdown, 'VOZ'), and 'Data List' (dropdown, 'None').
- RX/TX Manage:** 'TX Admit' (dropdown, 'Channel Free'), 'TX Time-out Time[s]' (input, '60'), 'TOT Pre-alert Time[s]' (input, '0'), 'TOT Re-key Time[s]' (input, '0'), 'TOT Reset Time[s]' (input, '0'), 'Priority Interrupt Encode' (checkbox, checked), 'Priority Interrupt Decode' (checkbox, unchecked), 'TX Contacts Name' (dropdown, 'None'), and 'RX Group List' (dropdown, 'EMERGENCIA').
- CH Emergency System:** 'Emergency System' (dropdown, 'EMERGENCIA'), 'Emergency Alarm Indication' (checkbox, checked), and 'Emergency Call Indication' (checkbox, checked).
- Miscellaneous:** 'Battery Report Type' (dropdown, 'None'), 'In Call TX Admit' (dropdown, 'Follow TX Admit'), 'Beacon Interval[ms]' (input, '2160'), 'Phone System' (dropdown, 'None'), and 'RRS' (checkbox, checked).

HP566

The screenshot displays the configuration interface for the HP566 device. On the left, a tree view shows the navigation structure: HP56X > XPT Trunking > General Setting > Zone > Hytera. The main area is titled 'Zone Alias' and shows 'Hytera' in a text box, with a note: '(The actual display may change, See the Help for details)'. Below this is the 'Channel List' section, which includes a checkbox for 'Only Display Unused Channel' (unchecked). The 'Available' column lists various channels: Canal Analógico, Canal Digital, CH A1, CH A2, CH A3, CH D1, CH D2, CH D3, and None. The 'Members' column contains a table with 5 entries: No. 1 (G1), No. 2 (G2), No. 3 (G3), No. 4 (G4), and No. 5 (EMERGENCIA). Between the columns are 'Add >>' and '<< Remove' buttons. On the right side of the Members table, there are 'Up' and 'Down' buttons.

Zone Alias (The actual display may change, See the Help for details)

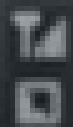
Channel List

Only Display Unused Channel

Available		Members	
Alias		No.	Alias
Canal Analógico		1	G1
Canal Digital		2	G2
CH A1		3	G3
CH A2		4	G4
CH A3		5	EMERGENCIA
CH D1			
CH D2			
CH D3			
None			

Buttons: Add >>, << Remove, Up, Down

Hytera



CH 1

Exemplo de Aplicação 2

- 02 Sites
- 02 Repetidoras
- HP606

HR1066

Repetidora Master / Site 1

The screenshot displays the configuration interface for the HR1066 device. On the left is a tree view of the configuration menu, with 'Network' highlighted. The main area shows the 'IP Connect Configuration' window with the following settings:

Parameter	Value
Repeater Type	Master
Jitter Buffer Length	1
Network Authentication Key	1234567890
Master IP	0 . 0 . 0 . 0
Master UDP Port	50000
IP Connect Networking UDP Port	50000
P2P Firewall Open Timer[sec]	6
Voice & Data UDP Port	50001
Service Control Port	50003
Master Domain Name On/Off	<input type="checkbox"/>
Domain Names	

HR1066

Repetidora Master / Site 1

The screenshot displays the configuration interface for the HR1066 device. On the left is a tree view of the configuration menu, with 'IP Configuration' highlighted. The main area shows the 'IP Configuration' settings for a 'Switch'.

IP Configuration

IP Setting Mode: Switch

Switch Configuration

IP Type	Static
IP Address	192 . 168 . 10 . 100
Netmask	255 . 255 . 255 . 0
Gateway IP	192 . 168 . 10 . 1
DNS Server IP	8 . 8 . 8 . 8
MAC Address	64 69 BC 24 93 BD

HR1066

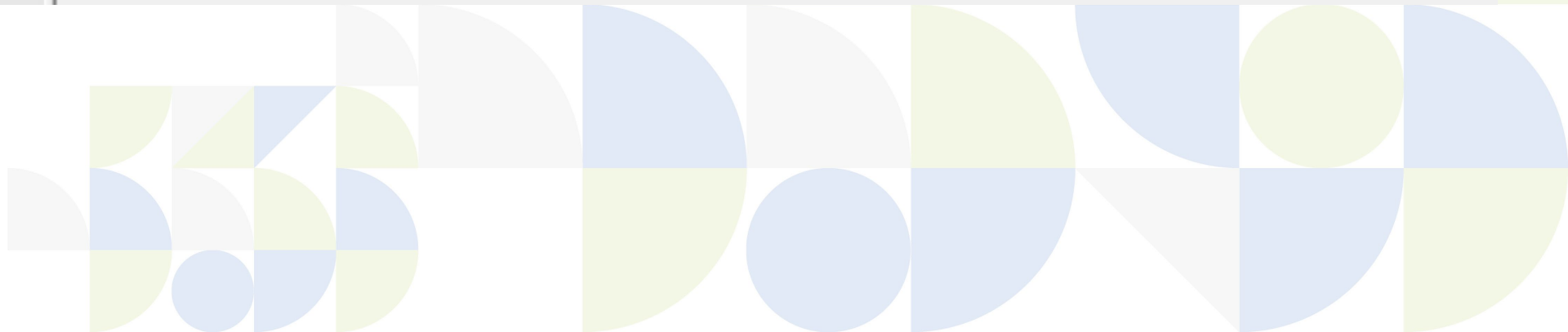
Repetidora Master / Site 1

The screenshot displays the configuration interface for the HR1066 system. On the left, a tree view shows the hierarchy: HR1066 > Radio Information > Common > XPT Trunking > General Setting > Zone > Channel > XPT Channel > Webinar XPT. The 'Webinar XPT' channel is selected and highlighted with a blue box.

The main configuration area for the 'Webinar XPT' channel includes the following settings:

- Channel Alias: Webinar XPT (The actual display may change,)
- Color Code: 1
- Interference Detection: Disable
- RSSI Threshold: -100
- RX Frequency [MHz]: 459.000000
- Offset [MHz]: 10.000000
- TX Frequency [MHz]: 469.000000
- Power Level: Low

A 'Copy' button is located below the Offset [MHz] field.



HR1066

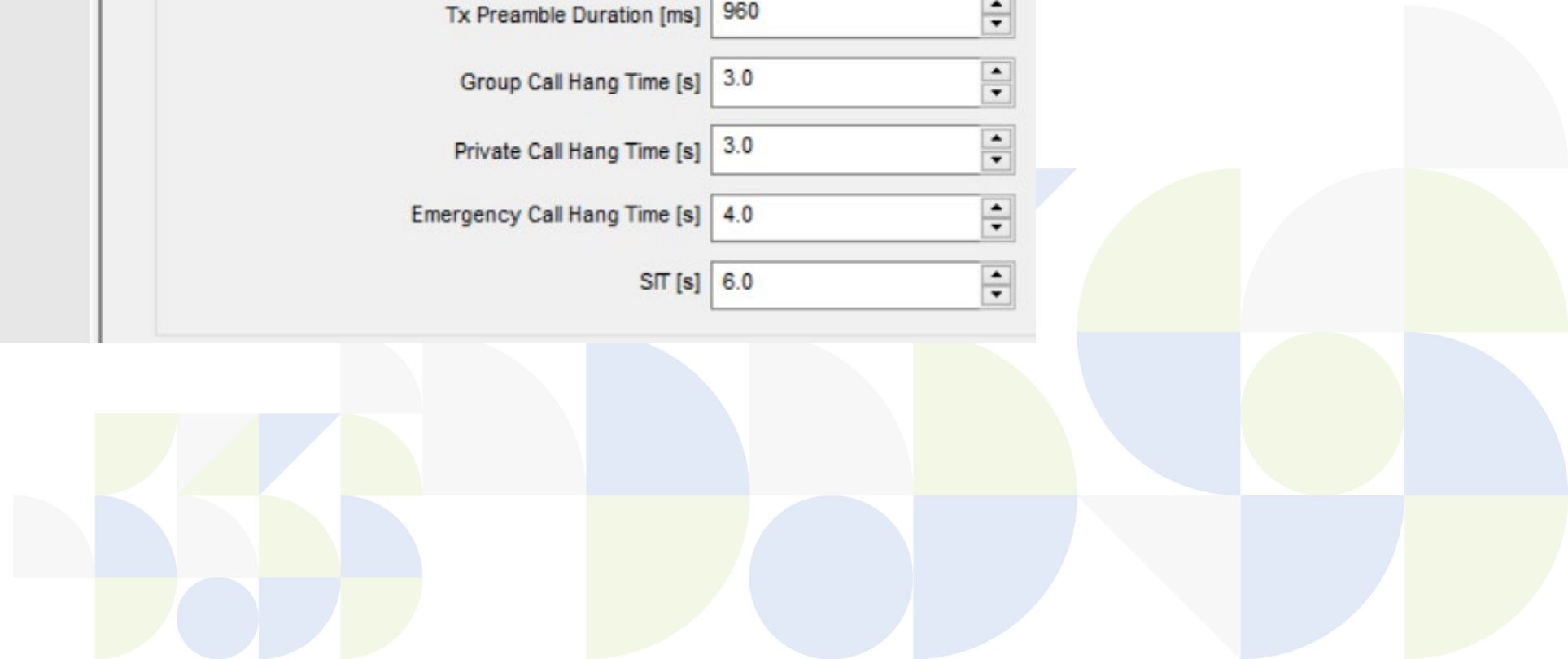
Repetidora Master / Site 1

The screenshot displays the configuration interface for HR1066. On the left is a tree view with the following structure:

- HR1066
 - Radio Information
 - Common
 - XPT Trunking
 - General Setting
 - Zone
 - Channel
 - Digital Common
 - Basic**
 - Encrypt
 - XPT Service
 - AIS
 - Fusion System
 - Phone
 - PBX

The main area shows the 'Basic Setting' configuration page with the following parameters:

Parameter	Value
Radio ID	100
Increase After Written	<input type="checkbox"/>
Tx Preamble Duration [ms]	960
Group Call Hang Time [s]	3.0
Private Call Hang Time [s]	3.0
Emergency Call Hang Time [s]	4.0
SIT [s]	6.0



HR1066

Repetidora Master / Site 1

The screenshot displays the configuration interface for HR1066. On the left is a tree view of the configuration structure, and on the right is the 'Site Setting' configuration page.

Left Panel (Tree View):

- HR1066
 - Radio Information
 - Common
 - XPT Trunking
 - General Setting
 - Zone
 - Channel
 - Digital Common
 - XPT Service
 - Setting** (highlighted)
 - Home Group List
 - AIS
 - Fusion System
 - Phone
 - PBX

HR1066

Repetidora Master / Site 1

The screenshot displays a software interface for configuring a site. On the left is a tree view under the heading 'HR1066'. The tree includes folders for 'Radio Information', 'Common', 'XPT Trunking', 'General Setting', 'Zone', 'Channel', 'Digital Common', 'XPT Service', 'Setting', 'Home Group List', 'AIS', 'Fusion System', 'Phone', and 'PBX'. The 'Home Group List' folder is selected and highlighted with a blue box. On the right, a window titled 'Home Group ID List' contains a table with the following data:

No.	Repeater Index	Home Group ID
1	1	10
2	1	11
3	2	20
4	2	21

HR1066

Repetidora Slave / Site 1

The screenshot displays the configuration interface for the HR1066 device. On the left is a tree view of configuration categories, with 'Network' selected. The main area shows the 'IP Connect Configuration' window, which is highlighted with a blue border. The configuration parameters are as follows:

Parameter	Value
Repeater Type	Slave
Jitter Buffer Length	1
Network Authentication Key	1234567890
Master IP	192 . 168 . 10 . 100
Master UDP Port	50000
IP Connect Networking UDP Port	50000
P2P Firewall Open Timer[sec]	6
Voice & Data UDP Port	50001
Service Control Port	50003
Master Domain Name On/Off	<input type="checkbox"/>
Domain Names	

HR1066

Repetidora Slave / Site 1

The screenshot displays the configuration interface for the HR1066 device. On the left is a tree view of configuration categories, with 'IP Configuration' selected and highlighted in blue. The main area shows the 'IP Configuration' settings for a 'Switch' mode. A blue box highlights the 'Switch Configuration' section, which includes the following fields:

Field	Value
IP Setting Mode	Switch
IP Type	Static
IP Address	192 . 168 . 10 . 50
Netmask	255 . 255 . 255 . 0
Gateway IP	192 . 168 . 10 . 1
DNS Server IP	8 . 8 . 8 . 8
MAC Address	64 69 BC 24 93 BD

HR1066

Repetidora Slave / Site 1

The screenshot displays the configuration interface for the HR1066 system. On the left is a tree view of the configuration structure:

- HR1066
 - Radio Information
 - Common
 - XPT Trunking
 - General Setting
 - Zone
 - Channel
 - XPT Channel
 - SLAVE**
 - Digital Common
 - XPT Service
 - AIS
 - Fusion System
 - Phone
 - PBX

The main configuration area shows the following settings:

- Channel Alias:** SLAVE (The actual display may change, See the...)
- Color Code:** 1
- Interference Detection:** Disable
- RSSI Threshold:** -100
- RX Frequency [MHz]:** 459.250000
- Offset [MHz]:** 10.000000
- TX Frequency [MHz]:** 469.250000
- Power Level:** Low

A **Copy** button is located below the RX and TX frequency fields.

HR1066

Repetidora Slave / Site 1

The screenshot displays the configuration interface for HR1066. On the left is a tree view with the following structure:

- HR1066
 - Radio Information
 - Common
 - XPT Trunking
 - General Setting
 - Zone
 - Channel
 - Digital Common
 - Basic (highlighted)
 - Encrypt
 - XPT Service
 - AIS
 - Fusion System
 - Phone
 - PBX

The main area shows the 'Basic Setting' configuration for the selected radio:

- Radio ID: 101
- Increase After Written:
- Tx Preamble Duration [ms]: 960
- Group Call Hang Time [s]: 3.0
- Private Call Hang Time [s]: 3.0
- Emergency Call Hang Time [s]: 4.0
- SIT [s]: 6.0

HR1066

Repetidora Slave / Site 1

The screenshot displays the HR1066 software interface. On the left is a tree view of the configuration structure, and on the right is the 'Site Setting' configuration window.

Left Panel (Tree View):

- HR1066
 - Radio Information
 - Common
 - XPT Trunking
 - General Setting
 - Zone
 - Channel
 - Digital Common
 - XPT Service
 - Setting (highlighted)
 - AIS
 - Fusion System
 - Phone
 - PBX

Right Panel (Site Setting):

Repeater Index: 2

Site ID: 1

Beacon Duration[ms]: 480

Beacon Interval[ms]: 2160

Repeater Service Type: Voice Repeater

Single Station Paging:

HR1066

Repetidora SubMaster / Site 2

The screenshot displays the configuration interface for the HR1066 device. On the left is a tree view of the configuration menu, with 'Network' selected. The main area shows the 'IP Connect Configuration' and 'SubMaster/Slave Parameters' sections.

IP Connect Configuration

Repeater Type	SubMaster
Jitter Buffer Length	1
Network Authentication Key	1234567890
Master IP	0 . 0 . 0 . 0
Master UDP Port	50000
IP Connect Networking UDP Port	50000
P2P Firewall Open Timer[sec]	6
Voice & Data UDP Port	50001
Service Control Port	50003
Master Domain Name On/Off	<input type="checkbox"/>
Domain Names	

SubMaster/Slave Parameters

Master IP	192 . 168 . 10 . 100
Master UDP Port	50000
IP Connect Networking UDP Port	60000

HR1066

Repetidora SubMaster / Site 2

The screenshot displays the configuration interface for HR1066. On the left is a tree view with the following structure:

- HR1066
 - Radio Information
 - Common
 - XPT Trunking
 - General Setting
 - Setting
 - Accessories
 - Network
 - IP Configuration**
 - Access Manager
 - CWID
 - Zone
 - Channel
 - Digital Common
 - XPT Service
 - AIS
 - Fusion System
 - Phone
 - PBX

The main panel shows the 'IP Configuration' settings:

- IP Setting Mode: Switch
- Switch Configuration
 - IP Type: Static
 - IP Address: 192 . 168 . 10 . 200
 - Netmask: 255 . 255 . 255 . 0
 - Gateway IP: 192 . 168 . 10 . 1
 - DNS Server IP: 8 . 8 . 8 . 8
 - MAC Address: 64 69 BC 24 93 BD

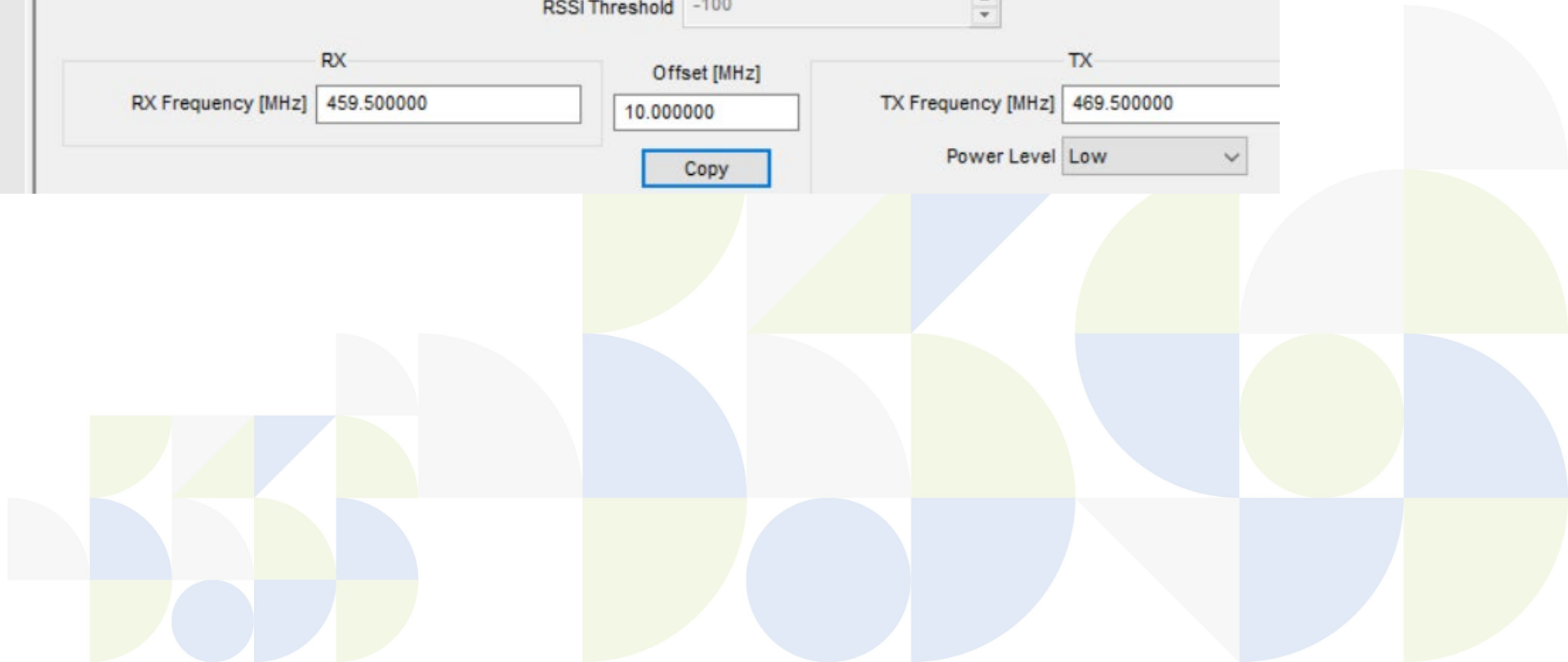
HR1066

Repetidora SubMaster / Site 2

The screenshot displays the configuration interface for the HR1066 radio. On the left, a tree view shows the configuration structure, with 'SubMaster' selected under 'XPT Channel'. The main configuration area includes the following fields:

- Channel Alias:** SubMaster (The actual display may change)
- Color Code:** 2
- Interference Detection:** Disable
- RSSI Threshold:** -100
- RX Frequency [MHz]:** 459.500000
- Offset [MHz]:** 10.000000
- TX Frequency [MHz]:** 469.500000
- Power Level:** Low

A 'Copy' button is located below the RX and TX frequency fields.



HR1066

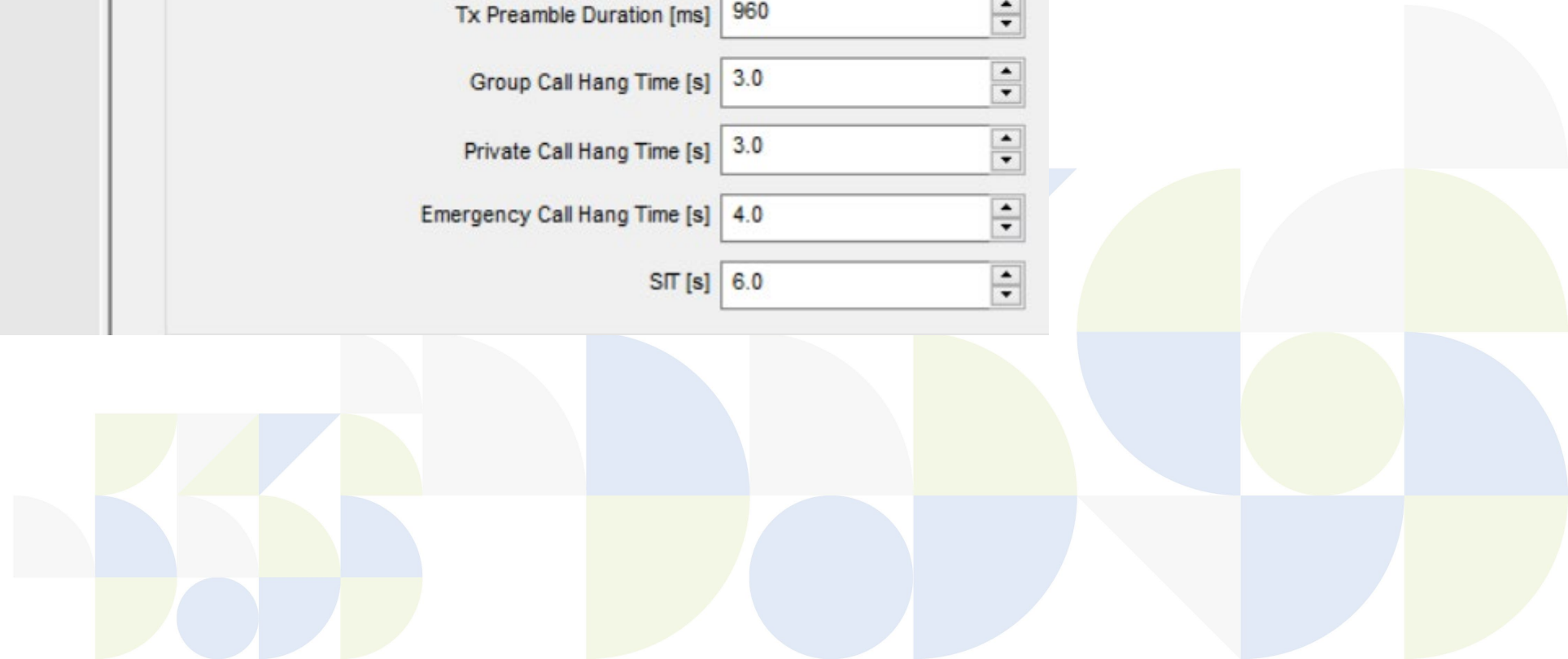
Repetidora SubMaster / Site 2

The screenshot displays the configuration interface for HR1066. On the left is a tree view of the configuration structure:

- HR1066
 - Radio Information
 - Common
 - XPT Trunking
 - General Setting
 - Zone
 - Channel
 - Digital Common
 - Basic (highlighted)
 - Encrypt
 - XPT Service
 - AIS
 - Fusion System
 - Phone
 - PBX

The main area shows the 'Basic Setting' page with the following parameters:

Parameter	Value
Radio ID	200
Increase After Written	<input type="checkbox"/>
Tx Preamble Duration [ms]	960
Group Call Hang Time [s]	3.0
Private Call Hang Time [s]	3.0
Emergency Call Hang Time [s]	4.0
SIT [s]	6.0



HR1066

Repetidora SubMaster / Site 2

The screenshot displays the configuration interface for HR1066. On the left is a tree view with the following structure:

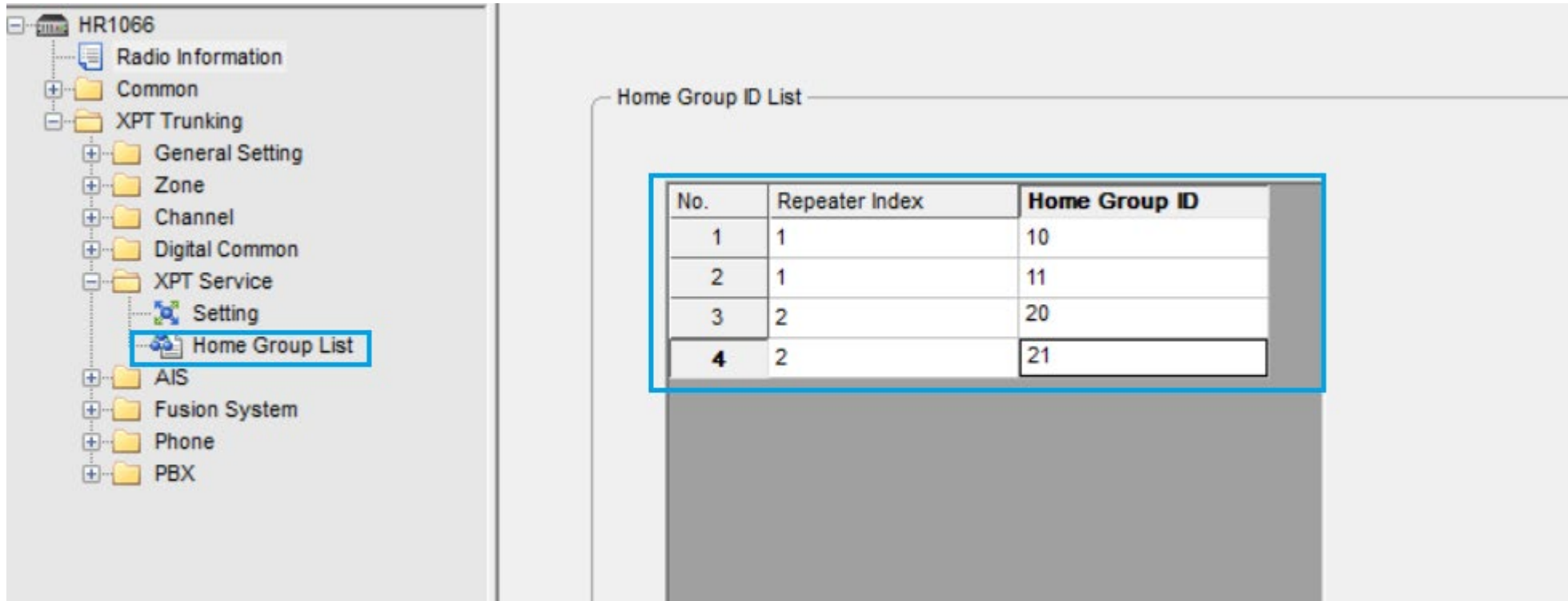
- HR1066
 - Radio Information
 - Common
 - XPT Trunking
 - General Setting
 - Zone
 - Channel
 - Digital Common
 - XPT Service
 - Setting
 - Home Group List
 - AIS
 - Fusion System
 - Phone
 - PBX

The main area shows the 'Site Setting' configuration for a repeater:

- Repeater Index: 1
- Site ID: 2
- Beacon Duration[ms]: 480
- Beacon Interval[ms]: 2160
- Repeater Service Type: Voice Repeater
- Voice Repeater In-Site Num: 2
- Dedicated CH for Priority Interrupt:
- Single Station Paging:

HR1066

Repetidora SubMaster / Site 2



The screenshot displays a software interface for HR1066. On the left is a tree view with the following items:

- HR1066
 - Radio Information
 - Common
 - XPT Trunking
 - General Setting
 - Zone
 - Channel
 - Digital Common
 - XPT Service
 - Setting
 - Home Group List**
 - AIS
 - Fusion System
 - Phone
 - PBX

The main area shows a window titled "Home Group ID List" containing the following table:

No.	Repeater Index	Home Group ID
1	1	10
2	1	11
3	2	20
4	2	21

HR1066

Repetidora Slave / Site 2

The screenshot displays the configuration interface for the HR1066 device. On the left is a tree view of the configuration menu, with 'Network' selected. The main area shows the 'IP Configuration' settings for a 'Switch'.

IP Configuration

IP Setting Mode: Switch

Switch Configuration

IP Type	Static
IP Address	192 . 168 . 10 . 201
Netmask	255 . 255 . 255 . 0
Gateway IP	192 . 168 . 10 . 1
DNS Server IP	8 . 8 . 8 . 8
MAC Address	64 69 BC 24 93 BD

HR1066

Repetidora Slave / Site 2

The screenshot displays the configuration interface for the HR1066 device. On the left is a tree view of the configuration menu, with 'IP Configuration' highlighted. The main area shows the 'IP Connect Configuration' settings:

Parameter	Value
Repeater Type	Slave
Jitter Buffer Length	1
Network Authentication Key	1234567890
Master IP	192 . 168 . 10 . 200
Master UDP Port	50000
IP Connect Networking UDP Port	50000
P2P Firewall Open Timer[sec]	6
Voice & Data UDP Port	50001
Service Control Port	50003
Master Domain Name On/Off	<input type="checkbox"/>
Domain Names	

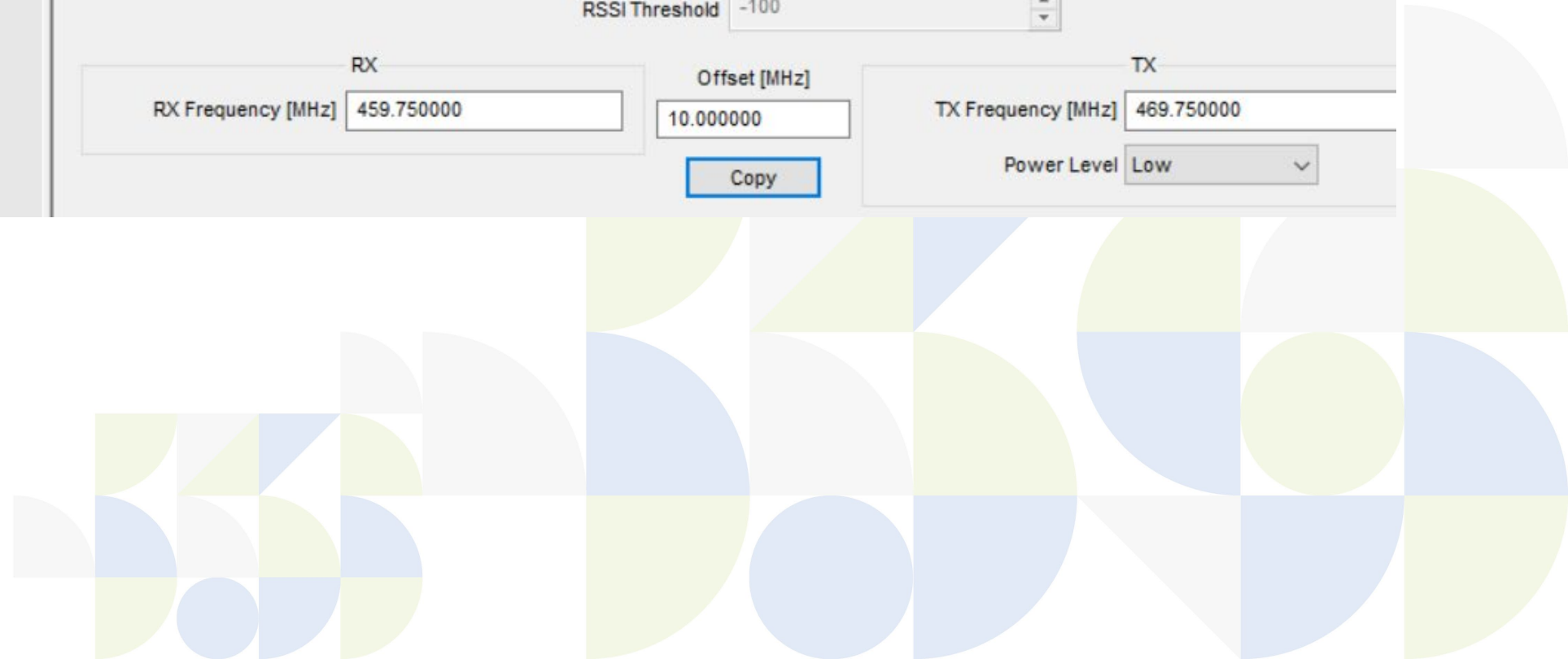
HR1066

Repetidora Slave / Site 2

The screenshot displays the configuration interface for the HR1066 system. On the left, a tree view shows the hierarchy: HR1066 > XPT Trunking > XPT Channel > Slave. The main configuration area is divided into several sections:

- Channel Information:** Channel Alias is set to "Slave" and Color Code is set to "2".
- Interference Detection:** Set to "Disable".
- RSSI Threshold:** Set to "-100".
- Frequency and Offset:** RX Frequency [MHz] is 459.750000, Offset [MHz] is 10.000000, and TX Frequency [MHz] is 469.750000.
- Power Level:** Set to "Low".

A "Copy" button is located below the frequency and offset fields. A note on the right states: "The actual display may change, See".



HR1066

Repetidora Slave / Site 2

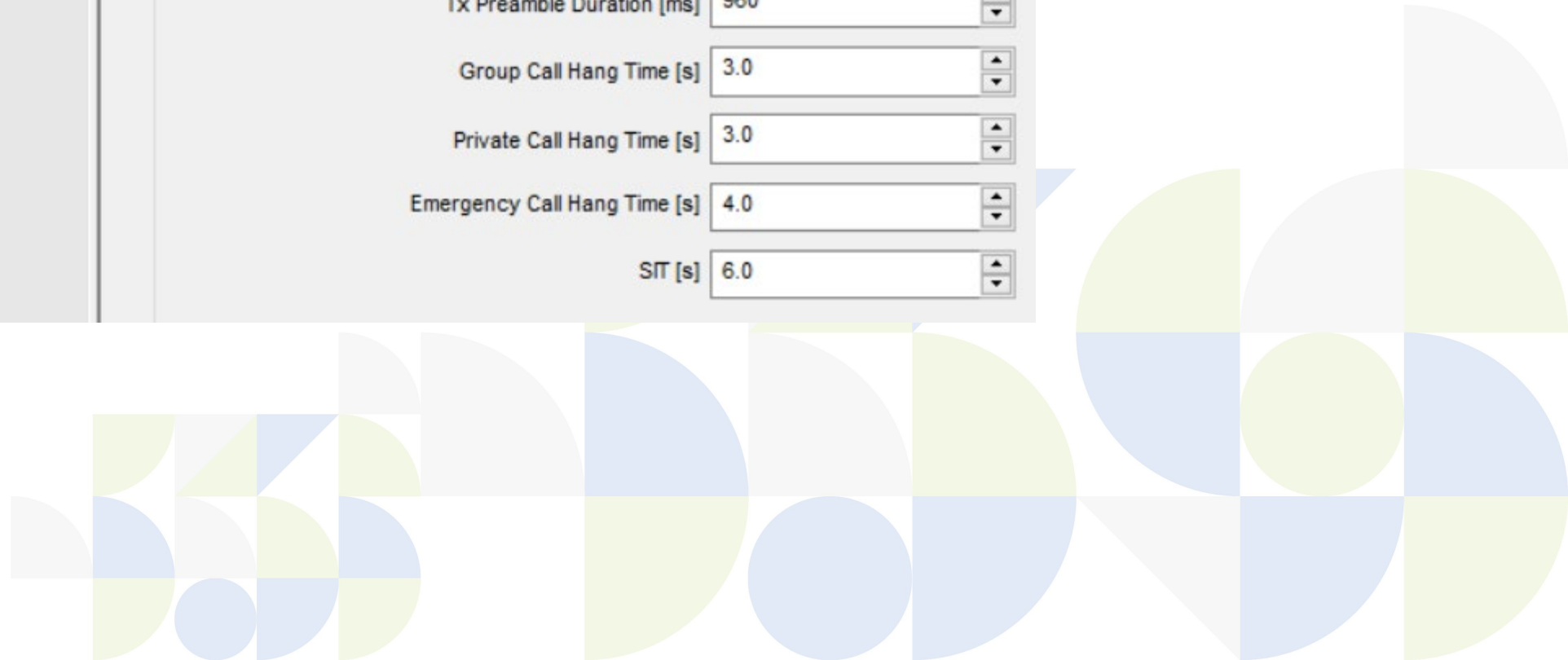
The screenshot displays the configuration interface for a radio unit. On the left is a tree view of the configuration structure, and on the right is the 'Basic Setting' configuration page.

Configuration Tree (Left):

- HR1066
 - Radio Information
 - Common
 - XPT Trunking
 - General Setting
 - Zone
 - Channel
 - Digital Common
 - Basic** (highlighted)
 - Encrypt
 - XPT Service
 - AIS
 - Fusion System
 - Phone
 - PBX

Basic Setting (Right):

- Radio ID: 201
- Increase After Written:
- Tx Preamble Duration [ms]: 960
- Group Call Hang Time [s]: 3.0
- Private Call Hang Time [s]: 3.0
- Emergency Call Hang Time [s]: 4.0
- SIT [s]: 6.0



HR1066

Repetidora Slave / Site 2

The screenshot displays the configuration interface for a Hytera HR1066 repeater. On the left is a tree view of the configuration structure, and on the right is the 'Site Setting' configuration panel.

Configuration Tree (Left):

- HR1066
 - Radio Information
 - Common
 - XPT Trunking
 - General Setting
 - Zone
 - Channel
 - Digital Common
 - XPT Service
 - Setting** (highlighted)
 - AIS
 - Fusion System
 - Phone
 - PBX

Site Setting Panel (Right):

- Repeater Index: 2
- Site ID: 2
- Beacon Duration[ms]: 480
- Beacon Interval[ms]: 2160
- Repeater Service Type: Voice Repeater
- Single Station Paging:

HP606

HP686

- Radio Information
- Common
- Conventional
- XPT Trunking
 - General Setting
 - Zone
 - Channel
 - Digital Common
 - XPT Service
 - Contact**
 - RX Group
 - System Channel
 - Site Voice List
 - Site Data List
 - Setting
 - Roam
 - Emergency
 - Quick GPS
 - Phone

Contact List

Contact List Sort

Info1 Info1

Info2 Info2

Info3 Info3

No.	Call Alias	Call Type	Call ID
1	G1	XPT Group Call	10
2	G2	XPT Group Call	11
3	G3	XPT Group Call	20
4	G4	XPT Group Call	21

HP606

The screenshot displays the HP606 software interface for configuring RX Group List Aliases. On the left is a tree view of the system configuration, with the 'RX Group' folder under 'XPT Service' selected. The main area is titled 'RX Group List Alias' and shows a text box containing 'G1'. Below this are two panels: 'Available' and 'Members'. The 'Available' panel lists RX Groups G2, G3, and G4. The 'Members' panel lists RX Group G1. Between the panels are two buttons: 'Add >>' and '<< Remove'.

HP686

- Radio Information
- Common
- Conventional
- XPT Trunking
 - General Setting
 - Zone
 - Channel
 - Digital Common
 - XPT Service
 - Contact
 - RX Group**
 - G1
 - G2
 - G3
 - G4
 - System Channel
 - Site Voice List
 - Site Data List
 - Setting
 - Roam
 - Emergency
 - Quick GPS
 - Phone

RX Group List Alias: G1

Available: G2, G3, G4

Members: G1

Buttons: Add >>, << Remove

HP606

The screenshot displays the HP686 software interface. On the left is a tree view of the configuration structure. The 'Voice Channel' item under 'System Channel' is selected and highlighted with a blue box. The main area on the right shows the 'Voice Channel Frequency List' table.

No.	Alias	RX Frequency[MHz]	Offset[MHz]	TX Frequency[MHz]	Color Code
1	Master	469.000000	-10.000000	459.000000	1
2	Slave	469.250000	-10.000000	459.250000	1
3	SubMaster	469.500000	-10.000000	459.500000	2
4	Slave1	469.750000	-10.000000	459.750000	2

HP606

The screenshot displays the configuration interface for HP686. On the left is a tree view with the following structure:

- HP686
 - Radio Information
 - Common
 - Conventional
 - XPT Trunking
 - General Setting
 - Zone
 - Channel
 - Digital Common
 - XPT Service
 - Contact
 - RX Group
 - System Channel
 - Site Voice List
 - VOZ 1
 - VOZ 2
 - Site Data List
 - Setting
 - Roam
 - Emergency
 - Quick GPS
 - Phone

The main area shows the 'Channel List' configuration for 'VOZ 1' at 'Site ID 1'. The 'Dedicated CH for Priority Interrupt' is set to 'None'. Below this is a table with the following data:

No.	Channel Alias
1	Master
2	Slave

HP606

The screenshot displays the configuration interface for HP686. On the left is a tree view of the configuration structure. The 'Site Voice List' folder is expanded, showing two entries: 'VOZ 1' and 'VOZ 2'. The 'VOZ 2' entry is selected and highlighted with a blue box. The main area of the interface is titled 'Channel List' and contains the following settings:

- Site Voice List Alias: VOZ 2
- Site ID: 2
- Dedicated CH for Priority Interrupt: None

Below these settings is a table with two columns: 'No.' and 'Channel Alias'. The table contains two rows of data:

No.	Channel Alias
1	SubMaster
2	Slave1

HP606

The screenshot displays the configuration interface for the HP606 device. On the left is a tree view of the configuration structure, with 'XPT Personality' selected under 'XPT Trunking'. The main area shows the configuration for 'G1'.

Radio Information

- Personality Alias: G1
- RX Only:
- IP Multi-site Connect:
- Power Level: Low
- Home Channel: Master
- Voice List: VOZ 1
- Data List: None
- Roam List: None
- Auto Start Roam:

RX/TX Manage

- TX Admit: Channel Free
- TX Time-out Time[s]: 60
- TOT Pre-alert Time[s]: 0
- TOT Re-key Time[s]: 0
- TOT Reset Time[s]: 0
- Priority Interrupt Encode:
- Priority Interrupt Decode:
- TX Contacts Name: G1
- RX Group List: G1

CH Emergency System

- Emergency System: None
- Emergency Alarm Indication:
- Emergency Call Indication:

Miscellaneous

- Location Report Type: None
- Battery Report Type: None
- In Call TX Admit: Follow TX Admit
- Beacon Interval[ms]: 2160
- Phone System: None
- RRS:

HP606

The screenshot displays the configuration interface for the HP606 radio. On the left is a tree view of the configuration structure, with 'XPT Personality' expanded to show personality 'G2' selected. The main area contains several configuration sections:

- Personality Alias:** G2
- RX Only:**
- IP Multi-site Connect:**
- Power Level:** Low
- Home Channel:** Slave
- Voice List:** VOZ 1
- Data List:** None
- Roam List:** None
- Auto Start Roam:**

RX/TX Manage

- TX Admit:** Channel Free
- TX Time-out Time[s]:** 60
- TOT Pre-alert Time[s]:** 0
- TOT Re-key Time[s]:** 0
- TOT Reset Time[s]:** 0
- Priority Interrupt Encode:**
- Priority Interrupt Decode:**
- TX Contacts Name:** G2
- RX Group List:** G2

CH Emergency System

- Emergency System:** None
- Emergency Alarm Indication:**
- Emergency Call Indication:**

Miscellaneous

- Location Report Type:** None
- Battery Report Type:** None
- In Call TX Admit:** Follow TX Admit
- Beacon Interval[ms]:** 2160
- Phone System:** None
- RRS:**

HP606

The screenshot displays the configuration interface for the HP606 radio. On the left is a tree view of the configuration structure. The main area is divided into several sections:

- Radio Information:** Shows the configuration tree with 'XPT Personality' expanded to 'G3'.
- General Settings:** Includes fields for 'Personality Alias' (G3), 'RX Only' (checkbox), 'IP Multi-site Connect' (checkbox), 'Power Level' (Low), 'Home Channel' (SubMaster), 'Voice List' (VOZ 2), 'Data List' (None), 'Roam List' (None), and 'Auto Start Roam' (checkbox).
- RX/TX Manage:** Includes 'TX Admit' (Channel Free), 'TX Time-out Time[s]' (60), 'TOT Pre-alert Time[s]' (0), 'TOT Re-key Time[s]' (0), 'TOT Reset Time[s]' (0), 'Priority Interrupt Encode' (checkbox), 'Priority Interrupt Decode' (checkbox), 'TX Contacts Name' (G3), and 'RX Group List' (G3).
- CH Emergency System:** Includes 'Emergency System' (None), 'Emergency Alarm Indication' (checkbox), and 'Emergency Call Indication' (checkbox).
- Miscellaneous:** Includes 'Location Report Type' (None), 'Battery Report Type' (None), 'In Call TX Admit' (Follow TX Admit), 'Beacon Interval[ms]' (2160), 'Phone System' (None), and 'RRS' (checkbox).

HP606

The screenshot displays the configuration interface for the HP606 device, specifically for the XPT Personality G4. The interface is divided into several sections:

- Radio Information:** A tree view on the left shows the configuration hierarchy: Radio Information > XPT Trunking > General Setting > Channel > XPT Personality > G4. The G4 personality is selected and highlighted.
- General Settings:**
 - Personality Alias: G4
 - RX Only:
 - IP Multi-site Connect:
 - Power Level: Low
 - Home Channel: Slave1
 - Voice List: VOZ 2
 - Data List: None
 - Roam List: None
 - Auto Start Roam:
- RX/TX Manage:**
 - TX Admit: Channel Free
 - TX Time-out Time[s]: 60
 - TOT Pre-alert Time[s]: 0
 - TOT Re-key Time[s]: 0
 - TOT Reset Time[s]: 0
 - Priority Interrupt Encode:
 - Priority Interrupt Decode:
 - TX Contacts Name: G4
 - RX Group List: G4
- CH Emergency System:**
 - Emergency System: None
 - Emergency Alarm Indication:
 - Emergency Call Indication:
- Miscellaneous:**
 - Location Report Type: None
 - Battery Report Type: None
 - In Call TX Admit: Follow TX Admit
 - Beacon Interval[ms]: 2160
 - Phone System: None
 - RRS:

HP606

HP686

- Radio Information
- Common
- Conventional
- XPT Trunking
 - General Setting
 - Zone
 - WEBINAR**
 - Channel
 - Digital Common
 - XPT Service
 - Roam
 - Emergency
 - Quick GPS
 - Phone

Zone Alias: (The actual display may change, See the Help for details)

Channel List

Only Display Unused Channel

Available		Members	
Alias		No.	Alias
ADMINISTRAÇÃO		1	G1
CH A1		2	G2
CH A2		3	G3
CH A3		4	G4
CH D1			
CH D2			
CH D3			
CH D4			
CONTR.DE ACESSO			
DIRETORIA			
None			
RECEPÇÃO			
SEGURANÇA			

Buttons: Add >>, << Remove, Up, Down

▽ **Obrigado** ●

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