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Configuration of Hytera Repeater

The screenshot displays the configuration interface for an RD985 Hytera Repeater. On the left is a tree view of settings categories, with 'Network' under 'Conventional' highlighted. The main area is divided into two sections: 'Basic Setting' and 'IP Connect Configuration'.

Basic Setting

- DHCP:
- Ethernet IP: ~~192 . 168 . 0 . 144~~
- Gateway IP: ~~192 . 168 . 0 . 254~~
- Netmask: ~~255 . 255 . 255 . 0~~
- Manual Set DNS On/Off:
- DNS Server IP: 8 . 8 . 4 . 4
- MAC Address: 64 69 BC 04 17 AE

IP Connect Configuration

- Repeater Type: Slave
- Jitter Buffer Length: 8
- Network Authentication Key: **leave blank**
- Master IP: 95 . 110 . 161 . 52
- Master UDP Port: 50000
- IP Connect Networking UDP Port: 50000
- P2P Firewall Open Timer[sec]: 6
- IP Multi-site Service:
- IP Multi-site Service UDP Port: 50001
- Remote RDAC:
- Remote RDAC UDP Port: 50002

Master Domain Name On/Off

Domain Names brandmeister.digitalham.it

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Configuration of MotoTRBO Repeater

The screenshot displays the configuration interface for a MotoTRBO Repeater. On the left, a sidebar shows the configuration tree with 'Network' selected. The main area is titled 'Network' and contains several tabs: 'Top', 'Radio Network', 'Link Establishment', and 'IP Site Connect'. The 'Link Establishment' tab is currently active, showing the following configuration options:

- Link Type: Peer
- Authentication Key: leave blank
- Master IP: 95 . 110 . 161 . 52
- Master UDP Port: 55000
- DHCP:
- Ethernet IP: ~~192 . 168 . 199~~
- Gateway IP: ~~192 . 168 . 199 . 254~~
- Gateway Netmask: ~~255 . 255 . 255 . 0~~
- UDP Port: 55000
- Peer Firewall Open Timer (sec): 6
- Master Archive File: [empty field]

Below the 'Link Establishment' section, there is a blue button labeled 'IP Site Connect'.

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Web-Links

www.digitalham.it

Usage on DMR-Radio

| | |
|-------------------------------------|--|
| TG dal 226,228,238,240,244 – Slot1 | On Demand - 10 Minutes – Attivation press PTT |
| TG222 – Slot1 | National: IT-DMR, DMR-CISARNET, DMR-ITALIA - DMR-TAA e DigitalHam |
| TG222 – Slot2 | National only BrandMeister |
| TG2220-2229 – Slot2 | Regional: IT-DMR, DMR-CISARNET, DMR-ITALIA - DMR-TAA e DigitalHam. Dynamic Interregional ON-DEMAND 10 Minutes |
| Cross Interregional – Slot2 | Dynamic Interregional ON-DEMAND 10 Minutes |
| TG2220-2229 | |
| TG8500 - DSTAR XRF003 B – Slot1 – 2 | On Demand 10 Minutes - Attivation press PTT |
| TG2226 - DSTAR XRF055 - Slot2 | On Demand 10 Minutes - Attivation press PTT |
| TG2220 - DSTAR XRF390 - Slot2 | On Demand 10 Minutes - Attivation press PTT |
| TG9 – Slot2 | The Time Slot 2 is disconnected from the network - The slot is locally for 10 Minutes TG9 has priority over all TG |
| TG8 – Slot2 | Regional geographical - Active repeaters geographical region from which the call originated Priority on TG2220-2229 |
| Call Private 9990 | ECHOTEST |

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Positioning on Hytera CPS:

- Conventional -> General -> Accessories:
 - GPS = On, GPS Data Compression = Off
 - Just configure preferred location report mode at GPS Trigger section
- Conventional -> General -> Network
 - RRS & GPS Radio ID: 5057
- preferred channel settings:
 - IP Multi-site Connect: On
 - GPS Revert Channel: Selected
 - RRS Revert Channel: Selected

Positioning on Motorola CPS:

- General:
 - GPS: On
- Network:
 - CAI Network: 12
 - ARS Radio ID: 5057
- preferred channel settings:
 - ARS: On System/Site Change
 - IP Site Connect: On
 - GPS Revert: Selected
 - Data Call Confirmed: On

It is also possible to configure Telemetry (server at the same ID 5057)

Now about messaging.

Any SMS that send to callsign and SSID configured at Users table will be delivered to you radio.

To send SMS to APRS: just send SMS to private ID 5057 in nextformat:
<APRS Callsign in upper case><space><message text, ASCII>

*For any information please contact: [Giacomo De Angelis - IW7DZR](mailto:giacomodeangelis@gmail.com)
giacomodeangelis@gmail.com*