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## OPEN-HYTERA-OE-MASTER-ENGLISH

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**Version vom 18. Oktober 2013, 11:17 Uhr**

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**Version vom 18. Oktober 2013, 11:32 Uhr**

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Only with a fix UDP-Port you can use all the features in the WinMaster system. You can get this fix port form your WinMaster administrator. In Austria please contact me [oe1kbc@oevsv.at](mailto:oe1kbc@oevsv.at)<br/>

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**== Server ID using RDAC Service ==**

**WinMaster versions larger the 8.0 are able to read the programmed Repeater Parameters.**

**\* DMR Repeater ID**

**\* Repeater callsign**

**\* Repeater TX frequency**

**\* Repeater RX frequency or shift**

**A Repeater with activated Super Master RDAC Service is able to transfer the parameters to the WinMaster. This information will be transferd to the S/BMaster system. So we can display this infromations on the DashBoard. Please keep in mind to coordinate the Repeter IDs and store them to the DMR-MARC database. So we do not run in conflicts on international calls.**

== Server ID (old version without Super Master RDAC Service ==

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## DMR WinMaster

---

by: Kurt OE1KBC oe1kbc@oevsv.at

On the ÖVSV server we installed the DMR OE-MASTER and you can use this master for testing issues.

You can connect with HYTERA RD985 or RD965 repeater with the IP Multi-Site Service license installed. The connection is done via the "Supermaster" service.

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## Parameters

---

- Repeater Type: **IP Multi-Site Master**
- Jitter Buffer Length: **8**
- Authentication Key: **!! leave empty !!**
- IP Multi-site Networking UDP Port: **62015**
- P2P Firewall Open Time (sec): **6**
- IP Multi-Site Service: **checked**
- IP Multi-Site Service UDP Port: **62016**
- RDAC: **unchecked**
- Super Master Service: **checked**
- Super Master IP: **178.188.156.53**
- Super Master UDP Port: **62005**
- Super Master Multi-Site Service: **checked**
- Super Master Multi-Site UDP Port: **62006** as standard port. Please ask WinMaster SYSOP for your own individual port
- Super Master RDAC Service: **checked**
- Super Master RDAC UDP Port: **62007**

Please note: Use the UDP-Port "62006" only for the first tests and QSOs. After that you will get a fixed UDP-Port. This Port identify you repeater to routing- and informations systems.

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## Server ID (old version without Super Master RDAC Service)

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The HYTERA Repeaters do not give their ID to the network streams so I've to take this information from "Super Master Multi-Site UDP" Port.

Therefore, if you use the default UDP-Port 62006 no Server-ID can be calculated.

In coordination with Torsten DG1HT (for BMaster and SMaster) and OE1KBC (for WinMaster) we have the following possibilities:

Super Master Multi-Site UDP Port: **6FRLL**

6....fix

F....counting no. per region 1-4

R....Region 1-9 (in OE it is the state 1-9 in DL the first position of the postal code)

LL...country code - only the last both digits - (OE...2<32> DL...2<62> HB9...2<28> US...3<10>)

e.g.:

the second repeater in region 8 in OE **62832** or

the third repeater in postal region 4 in DL **63462** or

the fourth repeater in region 7 in US **64710**

## Timeslots / Talkgroups

---

- local QSOs - the timeslot TS1 should be complete free for local QSOs. Please use TG9 to be compatible to the network issues.
- echo function- as a special we offer on TS1 a echo function. All you speak to TG9990 on TS1 will be responded after release of PTT.
- national QSOs - the timeslot TS2 with TG9 you can also use for local QSOs. With your country code (e.g. in OE TG232 or TG3 in USA) you can make nation wide QSOs
- international QSOs - with TG1 you are connected to all repeaters WW (US, EU, ...).

## LastHeard

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via <http://87.106.3.249/dmr> you can see the list of the last heard QSOs.

## WinMaster Software

---

The WinMaster software is written with .NET C# and connect the repeaters to the network..

The parameters in the properties form give you the possibilities to assign talkgroups to your slots. So you can make your own local TGs and bind repeaters to a local DMR-Network. So it is possible to connect the local repeaters (connected to the same WinMaster) on TS1 with TG9. This is a local area connection.

If you run more than one WinMaster on the same SMaster (see routing concept) you can decide on every WinMaster how to connect this WinMasters together.

The three step model give us a dynamic structure for the future.

- WinMaster build the repeater connections and the network for the region
- SMaster combine the WinMaster regions to a nationwide network
- BMaster combine nations to continents

here a pictiure from ÖVSV HYTERA-DMR OE-MASTER main- and propertiespage

DMR+ MASTER 7.00 Linux 64Bit															
HOME	Fri Mar 20 14:17:19 2015														
SYSTEM	DMR MASTER CONFIG														
LOGFILE															
GPS-USER	SYSOPEMAIL	LocalMasterName	Locator ID	TS1 INTERN	TS1 EXTERN	Ref Link	Ref unlink	sMaster IP							
	oelkbc@chello.at	OE-Vienna	2322	1,2,20,232	1,2,20,232	User Link On	User Unlink On	44.143.9.60							
DONGLE	REPEATER ON MASTER														
RPT-GEO	DmrID	CALL	LOGINTIME	IP	TX	QRG	RX	QRG	SHIFT	START	REF/RT	Reflector	TS1	FIRMWARE	MODEL
	CONFIC	232100	OE1XAR	Fri Mar 20 09:15:00 2015	44.143.9.70	62006	438.5000	430.9000	-7.6	4191/15	Link 4191	232 1 20	DMR+ MB 0.95	MBplus S	
RPT-MAP	CONFIC	228391	HR0RO	Fri Mar 20 09:15:00 2015	213.202.59.75	62006	439.4125	431.8125	-7.6	4180/15	Link 4180	228 1 20	A6.05.10.004	RD985 M	
	CONFIC	232108	OE1XNK	Fri Mar 20 09:15:00 2015	44.143.9.72	62006	438.6000	431.0000	-7.6	4198/15	Link 4198	232 1 20	DMR+ MB 0.95	MBplus S	
DMR-LIVE	CONFIC	262400	DE0NG	Fri Mar 20 09:15:00 2015	217.191.49.246	62006	438.9000	431.3000	-7.6	4006/15	Link 4006	262 1 20	A5.05.10.007	RD985 S	
	CONFIC	232192	OE1XQU	Fri Mar 20 09:15:00 2015	44.143.8.68	62006	438.4500	430.8500	-7.6	4180/15	Link 4180	232 1 20	A6.05.10.004	RD985 M	
USER	CONFIC	232605	OE1XCD	Fri Mar 20 09:15:00 2015	81.217.111.56	62006	438.9750	431.3750	-7.6	4191/15	Link 4191	232 1 20	A7.00.09.003	RD985 M	
	CONFIC	232604	OE1XBE	Fri Mar 20 09:15:00 2015	185.29.89.105	62006	438.9125	431.3125	-7.6	4196/15	Link 4196	232 1 20	A6.05.10.004	RD985 M	
USER+	CONFIC	232191	OE1XNK	Fri Mar 20 09:15:00 2015	44.143.9.52	62006	438.4250	430.8250	-7.6	4180/15	Link 4180	232 1 20	A7.00.09.003	RD985 M	
	CONFIC	262899	DE0NA	Fri Mar 20 09:15:00 2015	212.125.105.170	62006	439.5875	431.9875	-7.6	4198/15	Link 4198	20 1	A6.05.10.004	RD985 M	
REF-LIST	CONFIC	232893	OE1XNK	Fri Mar 20 09:15:01 2015	44.143.19.50	62006	438.4250	430.8250	-7.6	4191/15	Link 4191	232 1 20	A7.00.09.003	RD965 M	
	CONFIC	232391	OE1XNR	Fri Mar 20 09:15:01 2015	82.218.27.11	62006	438.4000	430.8000	-7.6	4191/15	Link 4191	232 1 20	A7.00.09.003	RD625 M	
REF-LIST+	CONFIC	232303	OE1XNB	Fri Mar 20 09:15:02 2015	44.143.9.73	62006	438.4250	430.8250	-7.6	4193/15	Link 4193	232 1 20	DMR+ MB 0.95	MBplus S	
	CONFIC	232703	OE1XLI	Fri Mar 20 09:15:02 2015	44.143.9.77	62006	438.3500	430.7500	-7.6	4197/15	Link 4197	232 1 20	DMR+ MB 0.95	MBplus S	
MASTER	CONFIC	232391	OE1XVJ	Fri Mar 20 09:15:02 2015	84.115.117.45	62006	438.5000	430.9000	-7.6	4199/15	Link 4199	232 1 20	A6.00.05.004	RD985 S	
	CONFIC	232601	OE1XAG	Fri Mar 20 09:15:02 2015	44.143.9.71	62006	438.6000	431.0000	-7.6	4196/15	Link 4196	232 1 20	DMR+ MB 0.95	MBplus S	
	CONFIC	262411	DF0MHR	Fri Mar 20 09:15:03 2015	91.16.219.64	62006	439.0375	431.4375	-7.6	NO SET	NO-LINK	262 1 20 10	A5.05.10.007	RD985 S	
	CONFIC	232193	OE1XQU	Fri Mar 20 09:15:03 2015	44.143.26.50	62006	145.5875	144.9875	-0.6	4191/15	Link 4191	232 1 20	A6.05.10.004	RD985 M	
RepeaterOnline: 17    ...    Voice: GER    EFN:off    SPING: 41.50 ms    Build: 000    Start Time: Fri Mar 20 09:14:57 2015															

questions to the software and the WinMaster (OE-MASTER) in OE

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SYSTEM	DMR MASTER CONFIG											
LOGFILE												
GPS-USER	SYSOPEMAIL	LocalMasterName	Locator ID	TS1 INTERN	TS1 EXTERN	Ref Link	Ref unlink	sMaster IP				
	oelkbc@chello.at	OE-Vienna	2322	1,2,20,232	1,2,20,232	User Link On	User Unlink On	44.143.9.60				
DONGLE	REPEATER ON MASTER											
RPT-GEO	DmrID	CALL	LOGINTIME	IP	TX QRG	RX QRG	SHIFT	START REF/RT	Reflector	TS1	FIRMWARE	MODEL
	CONF1G	232100	OE1XAR	Fri Mar 20 09:15:00 2015	44.143.9.70	62006	438.5000	430.9000	-7.6	4191/15	Link 4191	232 1 20 DMR+ MB 0.95 MBplus S
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- Repeater Type: **IP Multi-Site Master**
- Jitter Buffer Length: **8**
- Authentication Key: **!! leave empty !!**
- IP Multi-site Networking UDP Port: **62015**
- P2P Firewall Open Time (sec): **6**
- IP Multi-Site Service: **checked**
- IP Multi-Site Service UDP Port: **62016**
- RDAC: **unchecked**
- Super Master Service: **checked**
- Super Master IP: **178.188.156.53**
- Super Master UDP Port: **62005**
- Super Master Multi-Site Service: **checked**
- Super Master Multi-Site UDP Port: **62006** as standard port. Please ask WinMaster SYSOP for your own individual port
- Super Master RDAC Service: **checked**
- Super Master RDAC UDP Port: **62007**

Please note: Use the UDP-Port "62006" only for the first tests and QSOs. After that you will get a fixed UDP-Port. This Port identify you repeater to routing- and informations systems.

Only with a fix UDP-Port you can use all the features in the WinMaster system. You can get this fix port form your WinMaster administrator. In Austria please contact me oe1kbc@oevsv.at

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## Server ID using RDAC Service

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WinMaster versions larger the 8.0 are able to read the programmed Repeater Parameters.

- DMR Repeater ID
- Repeater callsign
- Repeater TX frequency
- Repeater RX frequency or shift

A Repeater with activated Super Master RDAC Service is able to transfer the parameters to the WinMaster. This information will be transferd to the S/BMaster system. So we can display this infomations on the DashBoard. Please keep in mind to coordinate the Repeter IDs and store them to the DMR-MARC database. So we do not run in conflicts on international calls.

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## Server ID (old version without Super Master RDAC Service)

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The HYTERA Repeaters do not give their ID to the network streams so I've to take this information from "Super Master Multi-Site UDP" Port.

Therefore, if you use the default UDP-Port 62006 no Server-ID can be calculated.

In coordination with Torsten DG1HT (for BMaster and SMaster) and OE1KBC (for WinMaster) we have the following possibilities:

Super Master Multi-Site UDP Port: **6FRLL**

6....fix

F....counting no. per region 1-4

R....Region 1-9 (in OE it is the state 1-9 in DL the first position of the postal code)

LL...country code - only the last both digits - (OE...2<32> DL...2<62> HB9...2<28> US...3<10>)

e.g.:

the second repeater in region 8 in OE **62832** or

the third repeater in postal region 4 in DL **63462** or

the fourth repeater in region 7 in US **64710**

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## Timeslots / Talkgroups

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- local QSOs - the timeslot TS1 should be complete free for local QSOs. Please use TG9 to be compatible to the network issues.
- echo function- as a special we offer on TS1 a echo function. All you speak to TG9990 on TS1 will be responded after release of PTT.
- national QSOs - the timeslot TS2 with TG9 you can also use for local QSOs. With your country code (e.g. in OE TG232 or TG3 in USA) you can make nation wide QSOs
- international QSOs - with TG1 you are connected to all repeaters WW (US, EU, ...).

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## LastHeard

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via <http://87.106.3.249/dmr> you can see the list of the last heard QSOs.

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## WinMaster Software

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The WinMaster software is written with .NET C# and connect the repeaters to the network..

The parameters in the properties form give you the possibilities to assign talkgroups to your slots. So you can make your own local TGs and bind repeaters to a local DMR-Network. So it is possible to connect the local repeaters (connected to the same WinMaster) on TS1 with TG9. This is a local area connection.

If you run more than one WinMaster on the same SMaster (see routing concept) you can decide on every WinMaster how to connect this WinMasters together.

The three step model give us a dynamic structure for the future.

- WinMaster build the repeater connections and the network for the region
- SMaster combine the WinMaster regions to a nationwide network
- BMaster combine nations to continents



here a pictiure from ÖVSV HYTERA-DMR OE-MASTER main- and propertiespage

DMR+ MASTER 7.00 Linux 64Bit															
HOME	Fri Mar 20 14:17:19 2015														
SYSTEM	DMR MASTER CONFIG														
LOGFILE															
GPS-USER	SYSOPEMAIL	LocalMasterName	Locator_ID	TS1_INTERN	TS1_EXTERN	Ref_Link	Ref_unlink	aMaster_IP							
	oelkbc@chello.at	OE-Vienna	2322	1,2,20,232	1,2,20,232	User Link On	User Unlink On	44.143.9.60							
DONGLE	REPEATER ON MASTER														
RPT-GEO	DmrID	CALL	LOGINTIME	IP	TX	QRG	RX	QRG	SHIFT	START	REF/RT	Reflector	TS1	FIRMWARE	MODEL
	CONF1G	232100	OE1XAR	Fri Mar 20 09:15:00 2015	44.143.9.70	62006	438.5000	430.9000	-7.6	4191/15	Link 4191	232 1 20	DMR+ MB 0.95	MBplus S	
RPT-MAP	CONF1G	232391	HR0RO	Fri Mar 20 09:15:00 2015	213.202.59.75	62006	439.4125	431.8125	-7.6	4180/15	Link 4180	228 1 20	A6.05.10.004	RD985 M	
	CONF1G	232108	OE1XNK	Fri Mar 20 09:15:00 2015	44.143.9.72	62006	438.6000	431.0000	-7.6	4198/15	Link 4198	232 1 20	DMR+ MB 0.95	MBplus S	
DMR-LIVE	CONF1G	262400	DE0NG	Fri Mar 20 09:15:00 2015	217.191.49.246	62006	438.9000	431.3000	-7.6	4006/15	Link 4006	262 1 20	A5.05.10.007	RD985 S	
	CONF1G	232192	OE1XQU	Fri Mar 20 09:15:00 2015	44.143.8.68	62006	438.4500	430.8500	-7.6	4180/15	Link 4180	232 1 20	A6.05.10.004	RD985 M	
USER	CONF1G	232605	OE1XCD	Fri Mar 20 09:15:00 2015	81.217.111.56	62006	438.9750	431.3750	-7.6	4191/15	Link 4191	232 1 20	A7.00.09.003	RD985 M	
	CONF1G	232604	OE1XBE	Fri Mar 20 09:15:00 2015	185.29.89.105	62006	438.9125	431.3125	-7.6	4196/15	Link 4196	232 1 20	A6.05.10.004	RD985 M	
USER+	CONF1G	232191	OE1XNK	Fri Mar 20 09:15:00 2015	44.143.9.52	62006	438.4250	430.8250	-7.6	4180/15	Link 4180	232 1 20	A7.00.09.003	RD985 M	
	CONF1G	262899	DE0ONA	Fri Mar 20 09:15:00 2015	212.125.105.170	62006	439.5875	431.9875	-7.6	4198/15	Link 4198	20 1	A6.05.10.004	RD985 M	
REF-LIST	CONF1G	232893	OE1XNK	Fri Mar 20 09:15:01 2015	44.143.19.50	62006	438.4250	430.8250	-7.6	4191/15	Link 4191	232 1 20	A7.00.09.003	RD965 M	
	CONF1G	232391	OE1XNR	Fri Mar 20 09:15:01 2015	82.218.27.11	62006	438.4000	430.8000	-7.6	4191/15	Link 4191	232 1 20	A7.00.09.003	RD625 M	
REF-LIST+	CONF1G	232303	OE1XHB	Fri Mar 20 09:15:02 2015	44.143.9.73	62006	438.4250	430.8250	-7.6	4193/15	Link 4193	232 1 20	DMR+ MB 0.95	MBplus S	
	CONF1G	232703	OE1XLI	Fri Mar 20 09:15:02 2015	44.143.9.77	62006	438.3500	430.7500	-7.6	4197/15	Link 4197	232 1 20	DMR+ MB 0.95	MBplus S	
MASTER	CONF1G	232991	OE1XVJ	Fri Mar 20 09:15:02 2015	84.115.117.45	62006	438.5000	430.9000	-7.6	4199/15	Link 4199	232 1 20	A6.00.05.004	RD985 S	
	CONF1G	232601	OE1XAG	Fri Mar 20 09:15:02 2015	44.143.9.71	62006	438.6000	431.0000	-7.6	4196/15	Link 4196	232 1 20	DMR+ MB 0.95	MBplus S	
	CONF1G	262411	DF0MHR	Fri Mar 20 09:15:03 2015	91.16.219.64	62006	439.0375	431.4375	-7.6	NO SET	NO-LINK	262 1 20 10	A5.05.10.007	RD985 S	
	CONF1G	232193	OE1XQU	Fri Mar 20 09:15:03 2015	44.143.26.50	62006	145.5875	144.9875	-0.6	4191/15	Link 4191	232 1 20	A6.05.10.004	RD985 M	
RepeaterOnline: 17    ...    Voice: GER    EFN:off    SPING: 41.50 ms    Build: 000    Start Time: Fri Mar 20 09:14:57 2015															

questions to the software and the WinMaster (OE-MASTER) in OE

Please EMail to oelkbc@oevsv.at