



## **SERVICE BULLETIN RMC-SNMP**

**Product: Receiver Multicoupler**

**Subject: RMC SNMP Overview**

**Date: 15<sup>th</sup> March 2016**

### Description

This Service Bulletin overviews the SNMP V2c functionality supported by the RMC/TTA products using baseline 1.5 firmware.

### SNMP Traps

Any single SNMP trap generated by the RMC/TTA includes the following OIDs and associated variables;

OID	Variable	Syntax(Type)	Description
.1.3.6.1.4.1.32327.2.2.3.1.2.1	rmcAlarmCustName	String	Customer Name
.1.3.6.1.4.1.32327.2.2.3.1.2.2	rmcAlarmSiteName	String	Site Name
.1.3.6.1.4.1.32327.2.2.3.1.2.3	rmcAlarmStatusString	String	Summary status string for RMC and TTA
.1.3.6.1.4.1.32327.2.2.3.1.2.4	rmcAlarmStatusBits	Integer	Alarm status register bit value
.1.3.6.1.4.1.32327.2.2.3.1.2.5	rmcAlarmDescription	String	Description for the specific alarm
.1.3.6.1.4.1.32327.2.2.3.1.2.6	rmcAlarmState	Integer	Alarm fault condition, 1 = OK and 2 = Fail
.1.3.6.1.4.1.32327.2.2.3.1.2.7	rmcAlarmDateTime	Date and Time	The time when the trap was sent by the RMC
.1.3.6.1.4.1.32327.2.2.3.1.2.8	rmcAlarmType	Integer	Unique number for each type of alarm (Alarm ID)
.1.3.6.1.4.1.32327.2.2.3.1.2.9	rmcAlarmModel	Integer	RMC model number, 1 for RMC01 and 3 for RMC03

The RMC/TTA has the following types of traps;

Alarm ID	Alarm String	Alarm Description
0	Test Alarm string	SNMP trap for testing only
1	MUX_Alarm	MUX power related alarms
2	MUX_Temp	MUX temperature alarm
3	TTA_Feed	MUX to TTA communication and power related alarms
4	TTA_Alarm	TTA internal power alarms
5	TTA_Temp	TTA internal temperature alarm
6	NO_Alarms	RMC mode changes

**TEST SNMP Message**

.iso.org.dod.internet.mgmt.mib-2.system.sysUpTime.0: TimeTicks: 22 hours, 6 minutes, 50 seconds.:

.iso.org.dod.internet.snmpV2.snmpModules.snmpMIB.snmpMIBObjects.snmpTrap.snmpTrapOID.0: Object ID: .1.3.6.1.4.1.32327.2.2.3.1.6.0.1:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmCustName.0: RFI:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmSiteName.0: Adelaide:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmStatusString.0: Test Status:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmStatusBits.0: INTEGER: 0:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmDescription.0: Test Alarm string:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmState.0: INTEGER: 1:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmDateTime.0: 2016-3-4,13: 6: 48.1:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmType.0: INTEGER: 0:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmModel.0: INTEGER: 1:

**TTA Feed Fault:**

.iso.org.dod.internet.mgmt.mib-2.system.sysUpTime.0: TimeTicks: 22 hours, 34 minutes, 36 seconds.:

.iso.org.dod.internet.snmpV2.snmpModules.snmpMIB.snmpMIBObjects.snmpTrap.snmpTrapOID.0: Object ID: .1.3.6.1.4.1.32327.2.2.3.1.6.0.1:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmCustName.0: RFI:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmSiteName.0: Adelaide:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmStatusString.0: TTA\_Amp\_A=--, TTA\_Amp\_B=--, Bypass\_Mode=--, Test\_Mode=--:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmStatusBits.0: INTEGER: 4097:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmDescription.0: TTA\_Feed:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmState.0: INTEGER: 2:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmDateTime.0: 2016-3-4,13: 34: 33.9:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmType.0: INTEGER: 3:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmModel.0: INTEGER: 1:

**TTA Feed OK:**

.iso.org.dod.internet.mgmt.mib-2.system.sysUpTime.0: TimeTicks: 22 hours, 38 minutes, 24 seconds.:

.iso.org.dod.internet.snmpV2.snmpModules.snmpMIB.snmpMIBObjects.snmpTrap.snmpTrapOID.0: Object ID: .1.3.6.1.4.1.32327.2.2.3.1.6.0.1:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmCustName.0: RFI:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmSiteName.0: Adelaide:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmStatusString.0: TTA\_Amp\_A=ON, TTA\_Amp\_B=OFF, Bypass\_Mode=OFF, Test\_Mode=OFF:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmStatusBits.0: INTEGER: 0:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmDescription.0: TTA\_Feed:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmState.0: INTEGER: 1:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmDateTime.0: 2016-3-4,13: 38: 22.6:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmType.0: INTEGER: 3:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmModel.0: INTEGER: 1:

**MODE Change BYPASS ON**

.iso.org.dod.internet.mgmt.mib-2.system.sysUpTime.0: TimeTicks: 22 hours, 41 minutes, 46 seconds.:

.iso.org.dod.internet.snmpV2.snmpModules.snmpMIB.snmpMIBObjects.snmpTrap.snmpTrapOID.0: Object ID: .1.3.6.1.4.1.32327.2.2.3.1.6.0.1:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmCustName.0: RFI:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmSiteName.0: Adelaide:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmStatusString.0: TTA\_Amp\_A=ON, TTA\_Amp\_B=OFF, Bypass\_Mode=ON, Test\_Mode=OFF:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmStatusBits.0: INTEGER: 0:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmDescription.0: NO\_Alarms:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmState.0: INTEGER: 1:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmDateTime.0: 2016-3-4,13: 41: 44.8:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmType.0: INTEGER: 6:

.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmModel.0: INTEGER: 1:

**MODE Change BYPASS OFF**

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.iso.org.dod.internet.mgmt.mib-2.system.sysUpTime.0: TimeTicks: 22 hours, 41 minutes, 51 seconds.:
.iso.org.dod.internet.snmpV2.snmpModules.snmpMIB.snmpMIBObjects.snmpTrap.snmpTrapOID.0: Object ID: .1.3.6.1.4.1.32327.2.2.3.1.6.0.1:
.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmCustName.0: RFI:
.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmSiteName.0: Adelaide:
.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmStatusString.0: TTA_Amp_A=ON,
TTA_Amp_B=OFF, Bypass_Mode=OFF, Test_Mode=OFF:
.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmStatusBits.0: INTEGER: 0:
.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmDescription.0: NO_Alarms:
.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmState.0: INTEGER: 1:
.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmDateTime.0: 2016-3-4,13: 41: 49.8:
.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmType.0: INTEGER: 6:
.iso.org.dod.internet.private.enterprises.rfiIndustries.rfiPublic.rfiProducts.rfiRMCPProduct.rmcAlarmMIB.rmcAlarmEntry.rmcAlarmModel.0: INTEGER: 1:
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**SNMP GET#**

The SNMP GET# command is able to read individual OIDs and associated variables from the RMC/TTA as shown in the example below;

Sent GET request to 192.168.1.232 : 161

<b>rmcAlarmCustName.0</b>	RFI
Sent GET request to 192.168.1.232 : 161	
<b>rmcAlarmSiteName.0</b>	Adelaide
Sent GET request to 192.168.1.232 : 161	
<b>rmcAlarmStatusString.0</b>	TTA_Amp_A=ON, TTA_Amp_B=OFF, Bypass_Mode=OFF, Test_Mode=OFF

A SNMPWALK will read all the OIDs and associated variables as shown below,

Sent GET request to 192.168.1.232 : 161

<b>rmcAlarmCustName.0</b>	RFI
<b>rmcAlarmSiteName.0</b>	Adelaide
<b>rmcAlarmStatusString.0</b>	TTA_Amp_A=ON, TTA_Amp_B=OFF, Bypass_Mode=OFF, Test_Mode=OFF
<b>rmcAlarmStatusBits.0</b>	0
<b>rmcAlarmDescription.0</b>	NO_Alarms
<b>rmcAlarmState.0</b>	okay(1)
<b>rmcAlarmDateTime.0</b>	2016-3-4,12:59:1.7
<b>rmcAlarmType.0</b>	0
<b>rmcAlarmModel.0</b>	1

- END -