

Annexe for V2.2.8 Stand-Alone Configuration Manager

User guide FRANÇAIS ENGLISH



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FRANÇAIS



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1. Radio Link Test

A partir de la version V2.2.8, le Configuration Manager permet de venir tester la qualité du lien radio entre 2 modems ARF868.

Avec cette nouvelle version et les produits la supportant (voir Release Note FW 1.7.0 et 2.1.0) vous pourrez :

1. Configurer et sauvegarder les paramètres pour le «Radio Link Test» des modems qui seront en local ou à distance (doit être effectué avant déploiement sur site).

2. Sur site (donc pour le modem en local seulement) :

- Activer la trame de RSSI sans sauvegarder
- Lancer ou arrêter le test (RLT) pour évaluer la qualité du lien radio avec votre modem distant
- Exporter les résultats du test en format "csv".

Pour se faire, suivre les instructions ci-dessous :

2. Lancer le configurateur

Ouvrir le mode «Advanced Configuration» > sélectionner le produit ARF868 concerné > lancer la liaison > choisir le nom du port com > Arriver à l'interface de configuration





3. Configurer votre modem distant

Configurer les paramètres de votre modem et notamment ceux relatifs au «Radio Link Test».

FR

9	Adeur	is RF - Stand-Alone configuration	manager V2.2.8	- • ×
File Communication ?				
ARF868 ULR : COM15 🔀				
CONFIGURATION OPTIONS		CURRENT CO	NFIGURATION	Î
Configuration Export	Radio Management	Serial Link	Protocol	Options
Configuration Import	Channel number	Baud rate	Mode	Command Mode Timeout
	11 *	9600 bits/s ~	Transparent mode 👻	0
Description of the	RF rate	UART interface	Protocol	ASCII character to enter in
Restore to Default	2.4 kbits/s v	RS232 v	Asynchronous cont v	43
	Preamble duration	Data length	Sub-network address	
	0	8 bits 🗸	0	Command mode entry Timeout at 9.6kbps at product start-up
-	Transmission start-up timeout	Parity	Source address	Enabled v
	3	None v	37307	Repeater Mode
	Transmission start-up threshold	Stop_bit	Destination address	• 💠
	30	1 stop v	0	
	RSSI mode	Handshake		
Adountis	No RSSI ~	Disabled ~		
	RF Output level			
	14 dBm ~			
Version :	Radio Link Test RLT ON ~			
TW_AB_2.4.00_AA_B_1.7.00	RLTest Magic Word	Save On M	Aodem	U.

Pensez à activer le «RLT» sur votre modem distant et à renseigner le mot magique que vous souhaitez utiliser car sans cette activation le test ne pourra être concluant.

IMPORTANT : bien cliquer sur «Save On Modem» pour sauvegarder définitivement la configuration dans votre modem.

CONSEIL : Il est fortement déconseillé d'utiliser des Serial Baud rate inférieurs à 9600 bds pour effectuer un test de lien radio.

4. Ajuster temporairement le registre RSSI du modem en local

Si ce n'est pas déjà fait, mettre à jour les paramètres relatifs au RLT sur votre modem en local avec les même paramètres que votre modem distant.

NOTE: le mot magique doit être strictement le même entre le modem local et distant pour que le test soit concluant.

Avant de lancer le test radio il vous faut modifier le paramètre «RSSI» pour le passer en «RSSI Frame» (si vous oubliez, un warning vous sera indiqué lors du test).



ATTENTION : ne pas sauvegarder cette configuration sur votre modem en local. Ne pas cliquer sur «Save On Modem» et ne pas cliquer sur «Save» lorsque le logiciel demandera un acquittement du départ sans sauvegarde (cliquer sur «Quit»).

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5. Accéder à la fenêtre de communication





R

6. Fenêtre du Radio Link Test

	Adeunis RF - Stand-Alone configuration manager V2.2.8	- 🗆 🗙
Communication ?		
F868 ULR : COM14 X Communication X		
COMMUNICATION	Installation Management – X	
COM14		
Locate and send a file	Time Stamp Local RSSI Remote RSSI Status PER Rxframe 0	
GO		
Radio Link Test		
17 m		
Adeunia	ENVIOR TY INVIT	
	payloss PALCORD TATION OF	
	Start Stop Export status Stopped	
		2
		adounis
CLEAR		aucullis

Cliquer sur «Start».

(h	nstallation Mana	igement		- 🗆 🗙	0		1	nstallation Man	agement		
Time Samp	Local RSSI	Renote RSSI	Status	PER	Rx frame		Time Stamp	Local RSSI	Remote RSSI	Status	PER	Rx frame
23/10/2019 11:16:15	-66 dBm	-55 dBm	OK	0%	00000003_1_PAYLOAD		1 23/10/2019 11:16:15	-66 dBm	-55 dBm	OK	0%	00000003_1_PAYLOA
23/10/2019 11:16:17	-66 dBm	-55 dBm	OK	0%	00000003_2_PAYLOAD		2 23/10/2019 11:16:17	-66 dBm	-55 dBm	OK	0%	00000003_2_PAYLOA
23/10/2019 11:16:19	-65 dBm	-55 dBm	OK	0%	00000003_3_PAYLOAD		3 23/10/2019 11:16:19	-66 dBm	-55 dBm	OK	0%	00000003_3_PAYLOA
23/10/2019 11:16:21	-66 dBm	-55 dBm	OK	0%	00000003_4_PAYLOAD		4 23/10/2019 11:16:21	-66 dBm	-55 dBm	OK	0%	00000003_4_PAYLOA
23/10/2019 11:16:45	-66 dBm	-55 dBm	OK	0%	00000003_6_PAYLOAD		5 23/10/2019 11:16:45	-66 dBm	-55 dBm	OK	0%	00000003_6_PAYLOA
23/10/2019 11:16:47	-66 dBm	-55 dBm	OK	0%	00000003_7_PAYLOAD		6 23/10/2019 11:16:47	-66 dBm	-55 dBm	OK	0%	00000003_7_PAYLOA
							7 23/10/2019 11:18:55			TimeOut	15%	
							8 23/10/2019 11:18:57			TimeOut	25%	
Start	Stop	Export		TX / R	(/ err 006/006/0 totus Stopped		ayload PAYLOAD Start	Stop	Export		TX / RX	Lien 008/006/2
Payload : p	eut	Expor	t : ópóror		TX : nomb	re de tra	Insmissior	IS		rrourl	S	tatus :
are moume		pour g	enerer		nn . recep	uon de l	a ualiie (a	avec of	u sans e	neur)	1 2	iopped ou
ar utilisate	ur	le fichi	er .csv		Frr · Total	Arreitrs	nas de réa	entior	n (ex. lia	ne	l s	toppina ou
	- 14 4				LII. TOtal	circuis,	pus de lei	cptioi	i (cz. ily	iii.		
ommé soul	naite	au tesi	[7 "TimeOu	it") ou e	rreur tram	ie (ex	: liane 1	1	l I ri	unning
				- 1		, ou c				•	<u> </u>	
					"EKK")							



	Time Stamp	Local RSSI	Remote RSSI	Status	PER	Rx frame
1	23/10/2019 11:16:15	-66 dBm	-55 dBm	OK	0%	00000003_1_PAYLOAD
2	23/10/2019 11:16:17	-66 dBm	-55 dBm	OK	0%	00000003_2_PAYLOAD
3	23/10/2019 11:16:19	-66 dBm	-55 dBm	OK	0%	00000003_3_PAYLOAD
4	23/10/2019 11:16:21	-66 dBm	-55 dBm	OK	0%	00000003_4_PAYLOAD
5	23/10/2019 11:16:45	-66 dBm	-55 dBm	OK	0%	00000003_6_PAYLOAD
6	23/10/2019 11:16:47	-66 dBm	-55 dBm	OK	0%	00000003_7_PAYLOAD
7	23/10/2019 11:18:55			TimeOut	15%	
8	23/10/2019 11:18:57			TimeOut	25%	
9	23/10/2019 11:20:04	-66 dBm	-55 dBm	ОК	23%	00000003_12_PAYLOAD
10	23/10/2019 11:20.06	-66 dBm	-55 dBm	OK	20%	00000003_13_PAYLOAD
11	23/10/2019 11:20:08	-66 dBm	?	ERR	28%	00000003_14_PAYLOADBATT
12	23/10/2019 11:20:29	-66 dBm	-54 dBm	OK	25%	00000003_16_PAYLOAD
13	23/10/2019 11:20:32	-66 dBm	-55 dBm	OK	24%	00000003_17_PAYLOAD
14	23/10/2019 11:20:34	-66 dBm	-55 dBm	OK	22%	00000003_18_PAYLOAD
15	23/10/2019 11:20:36	-66 dBm	-55 dBm	OK	20%	00000003_19_PAYLOAD
16	23/10/2019 11:20:38	-66 dBm	-55 dBm	ОК	19%	00000003_20_PAYLOAD
payl	PAYLOAD	_				TX/RX/err 016/014/3

Exemple du fichier .csv obtenu après export

:Time Stamp: Local RSSI: Remote RSSI: Status: PER:Rx frame: 1;23/10/2019 11:16:15;-66 dBm;-55 dBm;OK;0%;00000003 1 PAYLOAD; 2:23/10/2019 11:16:17:-66 dBm:-55 dBm:OK:0%:00000003 2 PAYLOAD: 3;23/10/2019 11:16:19;-66 dBm;-55 dBm;OK;0%;00000003 3 PAYLOAD; 4:23/10/2019 11:16:21:-66 dBm:-55 dBm:OK:0%:00000003 4 PAYLOAD: 5;23/10/2019 11:16:45;-66 dBm;-55 dBm;OK;0%;00000003 6 PAYLOAD; 6;23/10/2019 11:16:47;-66 dBm;-55 dBm;OK;0%;00000003 7 PAYLOAD; 7:23/10/2019 11:18:55:::TimeOut:15%:: 8;23/10/2019 11:18:57;;;TimeOut;25%;; 9:23/10/2019 11:20:04:-66 dBm:-55 dBm:OK:23%:00000003 12 PAYLOAD: 10;23/10/2019 11:20:06;-66 dBm;-55 dBm;OK;20%;00000003 13 PAYLOAD; 11;23/10/2019 11:20:08;-66 dBm;?;ERR;28%;00000003 14 PAYLOADBATTxx; 12:23/10/2019 11:20:29:-66 dBm:-54 dBm:OK:25%:00000003 16 PAYLOAD: 13;23/10/2019 11:20:32;-66 dBm;-55 dBm;OK;24%;00000003 17 PAYLOAD; 14;23/10/2019 11:20:34;-66 dBm;-55 dBm;OK;22%;00000003_18_PAYLOAD; 15;23/10/2019 11:20:36;-66 dBm;-55 dBm;OK;20%;00000003 19 PAYLOAD; 16:23/10/2019 11:20:38:-66 dBm:-55 dBm:OK:19%:00000003 20 PAYLOAD:

Exemple du WARNING si le RSSI n'a pas été configuré en «RSSI frame».

Warning, RSSI mode must be set to RSSI frame in configuration tab if not the local RSSI will not be diplayed (n/a)	3
ОК	





ENGLISH



INTRODUCTION

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1. Radio Link Test

From version V2.2.8, the Configuration Manager enables to test the quality of the radio link between 2 modems ARF868.

With this new version and the compatible products (see Release Note FW 1.7.0 et 2.1.0) you will be able to:

1. Configure and save the parameters for the «Radio Link Test» into the modems (remote or local). This operation has to be done before deployment.

2. On site (for local modem only) :

- Activate the RSSI frame without saving
- Launch and stop the RLT test to evaluate the quality of the radio link with your remote modem
- Export the results into a .csv file.

To do it, please use the following step by step :

2. Launch the Configuration Manager

Open the «Advanced Configuration» mode > select the concerned ARF868 > launch the link > choose the communication port > go to the configuration interface







3. Configure the remote modem

Configure the modem parameters and more specifically the one linked to the «Radio Link Test» (RLT).



Think to activate the «RLT» on your remote modem and to fill the Magic Word that you want to use. Without the activation of this parameter the test will not work.

 $\mathsf{CAUTION}:$ do not forget to click on «Save On Modem» to save the configuration into the modem.

ADVISE: it is strongly advised to do not use a serial link baud rate lower than 9600 bds to test the radio link quality.





4. Adjust temporarily the RSSI register on the local modem

If not already done, you must perform the same setup has for Remote modem for RLT parameter.

NOTE: the magic word must be strictly the same between the remote and the local modems.

Prior to use the radio link test you must set RSSI Mode parameter to RSSI frame (if not you will have a warning)



CAUTION: Do not save this "RSSI frame" on your local modem neither using Save Button nor when ask on leaving (use Quit)



5. Go on the Communication tab







6. Radio Link Test

COMMUNICATION	a Installation Management – 🗆 🗙	
COM14 a fileGO	Time Stamp Local RSSI Remote RSSI Statua PER Putame 0	
Addito	poyload PATLOAD TX/RX/er	

Click on «Start».

	, Ir	nstallation Mana	gement		- • ×	5			nstallation Mana	igement		
Time Stamp	Local BSSI	Renote RSSI	Satur	PER	Byframe	1 10	Time Stamp	Local RSSI	Remote RSSI	Status	PER	Rx frame
23/10/2019 11:16:15	-66 dBm	-55 dBm	OK	0%	00000003 1 PAYLOAD	1	23/10/2019 11:16:15	-66 dBm	-55 dBm	OK	0%	00000003_1_PAYLOA
23/10/2019 11:16:17	-66 dBm	-55 dBm	OK	0%	00000003 2 PAYLOAD	2	23/10/2019 11:16:17	-66 dBm	-55 dBm	OK	0%	00000003_2_PAYLOA
23/10/2019 11:16:19	-65 dBm	-55 dBm	OK	0%	00000003_3_PAYLOAD	3	23/10/2019 11:16:19	-66 dBm	-55 dBm	OK	0%	00000003_3_PAYLOA
23/10/2019 11:16:21	-66 dBm	-55 dBm	OK	0%	00000003 4 PAYLOAD	4	23/10/2019 11:16:21	-66 dBm	-55 dBm	OK	0%	00000003_4_PAYLOA
3 23/10/2019 11:16:45	-66 dBm	-55 dBm	OK	0%	00000003_6_PAYLOAD	5	23/10/2019 11:16:45	-66 dBm	-55 dBm	OK	0%	00000003_6_PAYLOA
23/10/2019 11:16:47	-66 dBm	-55 dBm	OK	0%	00000003_7_PAYLOAD	6	23/10/2019 11:16:47	-66 dBm	-55 dBm	OK	0%	00000003_7_PAYLOA
						7	23/10/2019 11:18:55			TimeOut	15%	
						8	23/10/2019 11:18:57			TimeOut	25%	
Rayload PAYLOAD	Stop	Export		TX / RX	l err 006/006/0 lab.s Stopped		yloed PAYLOAD Start	Stop	Export		TX/RX.	ler 008/006/2 stus Stapped
cayload PAYLOAD	Stop	Export		TX / RX	l er 006/006/0 Jahn Stopped	¢	ylood PAYLOAD Start	Stop	Export		TX/RX.	l err 008/006/2 stus Stapped
Start PAYLOAD	Stop	Export	t : to	TX / RX st	leer 006/006/0 shas Stopped	per of tra	start	Stop	Export		TX/RX st	ier 008/006/2 stupped tatus :
aylood PATLOAD Start Payload : C	Stop	Export	t:to	TX/RX st	TX : numk	per of tra	Start	Stop	Export	ors)	TX/RX st	tatus :
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ayload : co e modified y the user	Sep Can as	Export Export genera .csv fild	t : to ite a e with	TX/RX st	TX : numk RX : frame Err : Over	per of tra e recepti all errors	ansmission (with o s, no recept	see or with otion (Export nout erro ex: line	ors)	TX/RX S1 S1 D	tatus : topped or topping or
PATLOAD Surt Payload : c e modified y the user vanted	Stop Can as	Export Export genera .csv file test res	t : to ate a e with sults	TX/RX st	TX : numb RX : frame Frr : Over 7 "TimeOu	per of tra e recepti all errors	ansmissior on (with o on reception	see or with otion (r (ex: 1	nout erro ex: line ine 11	ors)	TX/RX S1 S1 R	tatus : topped or topping or unning
ayload PAYLOAD	step can as	Export Expor genera .csv file test res	t : to ate a e with sults	TX / RX	TX : numb RX : frame 7 "TimeOu	Der of tra e recepti all errors ut") or fi	ansmission on (with o rame erro	ns pr with ption (r (ex: 1	nout erro ex: line ine 11	ors)	st S1 S1 R	tatus : topped or unning



	Time Stamp	Local RSSI	Remote RSSI	Status	PER	Rx frame
1	23/10/2019 11:16:15	-66 dBm	-55 dBm	OK	0%	00000003_1_PAYLOAD
2	23/10/2019 11:16:17	-66 dBm	-55 dBm	OK	0%	00000003_2_PAYLOAD
3	23/10/2019 11:16:19	-66 dBm	-55 dBm	OK	0%	00000003_3_PAYLOAD
4	23/10/2019 11:16:21	-66 dBm	-55 dBm	OK	0%	00000003_4_PAYLOAD
5	23/10/2019 11:16:45	-66 dBm	-55 dBm	OK	0%	00000003_6_PAYLOAD
6	23/10/2019 11:16:47	-66 dBm	-55 dBm	OK	0%	00000003_7_PAYLOAD
7	23/10/2019 11:18:55			TimeOut	15%	
8	23/10/2019 11:18:57			TimeOut	25%	
9	23/10/2019 11:20:04	-66 dBm	-55 dBm	ОК	23%	00000003_12_PAYLOAD
0	23/10/2019 11:20.06	-66 dBm	-55 dBm	OK	20%	00000003_13_PAYLOAD
1	23/10/2019 11:20:08	-66 dBm	?	ERR	28%	00000003_14_PAYLOADBATTx
2	23/10/2019 11:20:29	-66 dBm	-54 dBm	OK	25%	00000003_16_PAYLOAD
3	23/10/2019 11:20:32	-66 dBm	-55 dBm	OK	24%	00000003_17_PAYLOAD
4	23/10/2019 11:20:34	-66 dBm	-55 dBm	OK	22%	00000003_18_PAYLOAD
5	23/10/2019 11:20:36	-66 dBm	-55 dBm	ОК	20%	00000003_19_PAYLOAD
16	23/10/2019 11:20:38	-66 dBm	-55 dBm	ок	19%	00000003_20_PAYLOAD
By/	load PAYLOAD				1	TX/RX/err 016/014/3

Example of the content of a .csv file exported:

:Time Stamp: Local RSSI: Remote RSSI: Status: PER:Rx frame: 1;23/10/2019 11:16:15;-66 dBm;-55 dBm;OK;0%;00000003 1 PAYLOAD; 2:23/10/2019 11:16:17:-66 dBm:-55 dBm:OK:0%:00000003 2 PAYLOAD: 3:23/10/2019 11:16:19:-66 dBm:-55 dBm:OK:0%:00000003 3 PAYLOAD: 4;23/10/2019 11:16:21;-66 dBm;-55 dBm;OK;0%;00000003 4 PAYLOAD; 5:23/10/2019 11:16:45:-66 dBm:-55 dBm:OK:0%:00000003 6 PAYLOAD: 6;23/10/2019 11:16:47;-66 dBm;-55 dBm;OK;0%;00000003 7 PAYLOAD; 7;23/10/2019 11:18:55;;;TimeOut;15%;; 8;23/10/2019 11:18:57;;;TimeOut;25%;; 9;23/10/2019 11:20:04;-66 dBm;-55 dBm;OK;23%;00000003 12 PAYLOAD; 10;23/10/2019 11:20:06;-66 dBm;-55 dBm;OK;20%;0000003_13_PAYLOAD; 11;23/10/2019 11:20:08;-66 dBm;?;ERR;28%;00000003 14 PAYLOADBATTxx: 12:23/10/2019 11:20:29:-66 dBm:-54 dBm:OK:25%:00000003 16 PAYLOAD: 13;23/10/2019 11:20:32;-66 dBm;-55 dBm;OK;24%;00000003 17 PAYLOAD; 14;23/10/2019 11:20:34;-66 dBm;-55 dBm;OK;22%;00000003 18 PAYLOAD; 15;23/10/2019 11:20:36;-66 dBm;-55 dBm;OK;20%;0000003_19_PAYLOAD; 16;23/10/2019 11:20:38;-66 dBm;-55 dBm;OK;19%;00000003 20 PAYLOAD;

Example of WARNING if the RSSI register is not configured with «RSSI frame».

