

Annexe for V2.3.0 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.



Il s'agit d'un mode test, il par conséquent nécessaire de penser à le désactiver pour relancer le mode de fonctionnement normal.

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».

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	Adeur	is RF - Stand-Alone configuration	manager V2.2.8	X
File Communication ?				
ARF868 ULR : COM15 🔀				
CONFIGURATION OPTIONS		CURRENT CON	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 *	•
Restore To Default	RF rate	UART interface	Protocol	ASCII character to enter in
	2.4 kbits/s v	RS232 v	Asynchronous cont v	43
	Preamble duration	Data length	Sub-network address	
	0	8 bits v	0	Command mode entry Timeout at 9.6kbps at product start-up
-	Transmission start-up timeout	Parity	Source address	Enabled v
1 mm	3	None v	37307	Repeater Mode
	Transmission start-up threshold	Stop_bit	Destination address	• 🛊
	30	1 stop ~	0	
	RSSI mode	Handshake		
Adounto	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	lodem	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.

	Adeu	nis RF - Stand-Alone configuration	manager V2.2.8	
Communication ?				
ARF				
CONFIGURATION OPTIONS		CURRENT CO	NFIGURATION	
Configuration Export	Radio Management	Serial Link	Protocol	Options
Configuration Import	Channel number	Baud rate 9600 bits/s ~	Mode Transparent mode v	Command Mode Timeout
Restore To Default	RF rate 2.4 kbits/s v	UART interface R\$232 ~	Protocol Asynchronous cont v	ASCII character to enter in command mode
	0	Data length 8 bits v	Sub-network address 0	Command mode entry Timeout at 9.6kbps at product start-up
Lun	Transmission start-up timeout	Parity None v	Source address 34713	Enabled ~ Repeater Mode
	Transmission start-up threshold	Stop_bit 1 stop ~	0 V	0
Adoutie	RSSI mode RSSI frame ~	Handshake Disabled ~		
-	27 dBm ~			
Version : W_AB_2.4.00_AA_B_2.1.00	RLT ON V	Save Douto	dem	
	00000003		ucin	
	-			
	AKF8	68 ULK : COM15		
	Are you sure to a	quit whithout saving reg	gisters?	
	1		Ovit	
			Con	

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»).



5. Accéder à la fenêtre de communication





6. Fenêtre du Radio Link Test

e Communication ?	Adeunis RF - Stand-Alone configuration manager V2.2.8	🗆
RF868 ULR : COM14 X Communication X		
	🥹 Installation Management – 🗖 🗙	
Locate and send a file	Time Stamp Local RSSI Remote RSSI Status PER Rxframe 0	
GO		
Radio Link Test		
A		
Adientia		
	payload PAYLOAD TX/ RX/ err	
	Start Stop Export status Stopped	
		2
		2

Cliquer sur «Start».

(h	stallation Manag	gement		5		h	nstallation Mana	igement		- • ×
Time Samo	Local BSSI	Reporte RSSI	Saha	PER By frame	I I I I	Time Stamp	Local RSSI	Remote RSSI	Status	PER	Rx frame
23/10/2019 11:16:15	5 -66 dBm	-55 dBm	OK	0% 00000003 1 PAYLOAD	1	1 23/10/2019 11:16:15	-66 dBm	-55 dBm	OK	0%	00000003_1_PAYLOAD
23/10/2019 11:16:11	7 -66 dBm	-55 dBm	OK	0% 00000003 2 PAYLOAD	2	2 23/10/2019 11:16:17	-66 dBm	-55 dBm	OK	0%	00000003_2_PAYLOAD
23/10/2019 11:16:19	-66 dBm	-55 dBm	OK	0% 00000003_3_PAYLOAD	3	3 23/10/2019 11:16:19	-66 dBm	-55 dBm	OK	0%	00000003_3_PAYLOAD
23/10/2019 11:16:21	1 -66 dBm	-55 dBm	OK	0% 00000003_4_PAYLOAD	4	4 23/10/2019 11:16:21	-66 dBm	-55 dBm	OK	0%	00000003_4_PAYLOAD
23/10/2019 11:16:45	5 -66 dBm	-55 dBm	OK	0% 00000003_6_PAYLOAD	5	5 23/10/2019 11:16:45	-66 dBm	-55 dBm	OK	0%	00000003_6_PAYLOAD
23/10/2019 11:16:4	7 -66 dBm	-55 dBm	OK	0% 00000003_7_PAYLOAD	6	6 23/10/2019 11:16:47	-66 dBm	-55 dBm	OK	0%	00000003_7_PAYLOAD
					2	7 23/10/2019 11:18:55			TimeOut	15%	
					8	8 23/10/2019 11:18:57			TimeOut	25%	
payload PAYLOAD	Stop	Export		X/RX/err 006/006/0 status Stopped		Start	Stop	Export		TX / RX	11 err 008 / 006 / 2 tatus Stapped
Pavload	4 .	Eve			mhre	de tran	cmic	cione			/
	-		PT .								Status '
J	J .	Expo	rt				.511113	510115		2	Status :
beut êtr	e	: pou	r r	RX : ré	eptio	n de la	tran	ne (av	ec	l S	Status : stopped of
peut êtr	e par	: pou	r r	RX : ré	eptio	n de la	tran	ne (av	ec	S	Status : stopped o
peut êtr modifié	e par	: pou géné	r r rer	RX : ré	eption erreu	n de la Ir)	tran	ne (av	ec	s S	Status : stopped of stopping
peut êtr nodifié utilisate	e par ur	: pou géné	r r rer nier	RX : ré	erreu	n de la ir)	tran	ne (av	ec	s s r	Status : stopped o stopping
peut êtr nodifié utilisate	e par ur	: pou géné le ficl	r r rer nier	RX : ré ou sans Err : Te	eption erreu tal err	n de la ir) reurs, p	tran	ne (av	ec ep-	s s r	Status : stopped of stopping running
peut êtr nodifié utilisate comme	e par ur	: pou géné le ficl	r rer nier du	RX : ré ou sans Err : To	erreu tal err	n de la ir) reurs, p 7 °Tin	tran	ne (av	ec ep-	s s r	Status : stopped of stopping running
peut êtr nodifié itilisate comme	e par ur	: pou géné le ficl .csv o	r rer nier du	RX : ré ou sans Err : To tion (ex	erreu tal err igne	n de la Ir) reurs, p e 7 "Tin	tran bas d	ne (av le réce it") ou	ec ep-	s s r	Status : stopped o stopping running
eut êtr nodifié itilisate omme ouhaité	e par ur	: pou géné le ficl .csv o test	r rer nier du	RX : ré ou sans Err : To tion (ex	eption erreu tal err : ligne rame	n de la ir) reurs, p e 7 "Tin (ex: lio	tran bas d neOu	ne (av le réce it") ou	ec ep- l R″)	s s r	Status : stopped stopping running

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	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_PAYLOADBATTS
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	ОК	20%	00000003_19_PAYLOAD
16	23/10/2019 11:20:38	-66 dBm	-55 dBm	OK	19%	00000003_20_PAYLOAD

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 PAYLOADBAT-Txx: 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».





7. Quitter le Mode Radio Link Test

Pour quitter ce mode, envoyez au Modem distant la chaîne de caractères «LEAVERFLOOPBACK depuis le champs «RLTest Magic World».

Lors de la réception de ce flux spécifique, le «modem distant» :

1. accuse réception de la «commande» en envoyant «ACKLEAVED» (via RF),

2. met S257 à 0 et l'enregistre, (RTL OFF),

3. revient à son mode nominal, avec RTL OFF.

Le modem est revenu à son mode nominal, avec la fonction de bouclage. désactivée.

9	Ade	eunis RF - Stand-Alone configuration	manager V2.2.8	- 🗆 🗙
File Communication ?				
ARF868 ULR : COM15 🗙 ARI	F868 ULR : COM14 🗙			
CONFIGURATION OPTIONS		CURRENT CO	NFIGURATION	Î
Configuration Export	Radio Management	Serial Link	Protocol	Options
Configuration Import	Channel number	Baud rate	Mode	Command Mode Timeout
Restore To Default	RF rate	UART interface	Protocol	ASCII character to enter in
	2.4 kbits/s v Preamble duration	R\$232 v Data length	Asynchronous cont v Sub-network address	43
	0	8 bits v	0	Command mode entry Timeout at 9.6kbps at product start-up
A	Transmission start-up timeout	None v	34713	Enabled V
	Transmission start-up threshold	Stop_bit	Destination address	0
	RSSI mode	Handshake		
Addulin	RSSI frame ~	Disabled ~		
	27 dBm ~			
	Radio Link Test			
version : TW_AB_2.4.00_AA_B_2.1.00	RLTest Magic Word	Save On Mo	dem	



La dernière étape consite à éteindre le Radio Link Test sur le modem local. Pour cela, dans la cellule « Radio Link Test » sélectionner : «RTL OFF».

	Adeur	nis RF - Stand-Alone configuration management	ger V2.2.8	
File Communication ?				
		CURRENT CONFIG	URATION	
Configuration Export	Radio Management	Serial Link	Protocol	Options
Configuration Import	Channel number	Baud rate 9600 bits/s v	Mode Transparent mode ~	Command Mode Timeout
Restore To Default	RF rate 2.4 kbits/s v	UART interface RS232 V	Protocol Asynchronous cont v	ASCII character to enter in command mode
	Preamble duration	Data length 8 bits ~	Sub-network address	Command mode entry Timeout at 9.6kbps at product start-up
Lun	Transmission start-up timeout	Parity None v	Source address 34713	Enabled ~ Repeater Mode
	Transmission start-up threshold	Stop_bit 1 stop ~	0	•
Additio	RSSI mode RSSI frame ~	Handshake Disabled ~		
	RF Output level 27 dBm ~			
Version : TW_AB_2.4.00_AA_B_2.1.00	Radio Link Test RTL OFF RLTest Magic Word	Save On Modem		



ΕN

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.

 $\ensuremath{\mathsf{CAUTION}}$: 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.

OPTIONS CURRENT CONFIGURATION Configuration fsport Radio Management Serial Link Protocol Options Configuration fumper Canone number Bad rate Mode Tengaret mode Add the filter face Retore To Default St rate UART Interface Protocol Add the filter face Protocol Preamble duration Data length Solver exations O IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
Configuration Export Radio Management Serial Link Protocol Options Configuration Import Cannon number Bad rate Mode Image net mode Add Ratior Ex Default Si rate UASI Interface Protocol Add Add Pomble duration Data length Sub-network address Options Add rate Add rat Add rate
Configuration import Coannel number Bad rate Mode Tengaration mode Retore To Default If rate URR Timerize Protocol Image: Tengaration mode Image: Tengaration import If rate URR Timerize Protocol Image: Tengaration mode Image: Tengaration import If rate URR Timerize Protocol Image: Tengaration mode Image: Tengaration import Image: Tengaration import Image: Tengaration import Image: Tengaration import Image: Tengaration import Image: Tengaration import Image: Tengaration import Image: Tengaration import Image: Tengenicipa inter up threaded Image: Tengenicipa inter up threaded Image: Tengenicipa inter up threaded Image: Tengenicipa inter up threaded Image: Tengenicipa inter up threaded Image: Tengenicipa inter up threaded Image: Tengenicipa inter up threaded Image: Tengenicipa inter up threaded Image: Tengenicipa inter up threaded Image: Tengenicipa inter up threaded Image: Tengenicipa inter up threaded Image: Tengenicipa inter up threaded Image: Tengenicipa inter up threaded Image: Tengenicipa inter up threaded Image: Tengenicipa inter up threaded Image: Tengenicipa inter up threaded Image: Tengenicipa inter up threaded
Restore To Defail Restore To Defail Restore To Defail Pearlie doration Pearlie doratio Pearlie doration Pearlie do
Restore To Default BF rate UART listerize Photocol Adjudy/response cont Adjudy/response cont 2 d b db/s 5222 Adjudy/response cont Adjudy/response cont Image: Content of the c
Image: State of the state o
Preamle duration Data length Sub-active vick address Command mode entry Timeout at 9.8kps at product start up file Tammission start up file Data length Source address 3.4713 Command mode entry Timeout at 9.8kps at product start up file Tammission start up file Nore 3.4713 Command mode entry Timeout at 9.8kps at product start up file Tammission start up file Nore 3.4713 Command mode entry Timeout at 9.8kps at product start up file Tammission start up file Nore 3.4713 Command mode entry Timeout at 9.8kps at product start up file Transmission start up file Nore 3.4713 Command mode entry Timeout at 9.8kps at product start up file Stop_bit Doestimation address 0 Command mode entry Timeout at 9.8kps at product start up file Stop_bit Doestimation address 0 Command mode entry Timeout at 9.8kps at product start up file Stop_bit Doestimation address 0 Command mode entry Timeout at 9.8kps at product start up file Start entry Start entry Doestimation address 0 Command mode entry Timeout at 9.8kps
Image: Sign of the second
Image: Sign and and a set of the set
3 3 Nore 34713 Repeater Mode 1 3 3 1 1 0 1 1 3 1 1 0 0 0 1 1 1 1 0 0 0 1 1 1 1 0 0 0 1 1 1 0 0 0 0 1 1 1 0 0 0 0
Image: Stop of the stop o
xalicuts xalicuts xalicuts xalicuts xalicuts xion : Xion : Xio
INSIGN C: RT CH Majk Word CAUCHAN R.2.1.00 RETEST Majk Word COUNT CH
National States and St
Nion : AB_22.100 AA,B_2.1.00 Riter Magk Word Save C Wodem Save C Wodem
Islon : IAB_2A00_AA,B_2.1.00 RtTest Magic Word COCOCCO 3
slion : ,AB_2.4.00,AA,B_2.1.00 RUT Majic Wood COCCCCCCC
nsion : AB_24.00,AA,B,2.1.00 RETER Magic Wood COCCCCCC 3
All CAMP AND
Rilest Magic Word Save C Wodem
00000003

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

OMMUNICATION	a Installation Management - • •	
COM14 ocate and send a file GO Radio Link Test	Time Stamp Local RSSI Reinde RSSI Status PER Ps frame 0	
ANERS	payload PATLOAD TX/TRU ar	

Click on «Start».

	In	stallation Manag	ement	- • ×	0		Ir	stallation Mana	igement		- • ×
Time Samo	Ional PSSI	Renote PSSI	Onter Pi	D Dyframa		Time Stamp	Local RSSI	Remote RSSI	Status	PER	Rx frame
1 23/10/2019 11:16:15	-66 dBm	-55 dBm	OK I	75 00000003 1 PAYLOAD	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	75 00000003 2 PAYLOAD	2	23/10/2019 11:16:17	-66 dBm	-55 dBm	OK	0%	00000003_2_PAYLOAD
3 23/10/2019 11:16:19	-65 dBm	-55 dBm	OK	% 00000003 3 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	2% 00000003 4 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	ОК	00000003_6_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	00000003_7_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%	
payload PAYLOAD	Stop	Export	тх	(RX./err 006/006/0 status Stopped	P80	rload PAYLOAD Start	Stop	Export		TX/RX.	llerr 008/006/2
											and cuspee
Pavload	ł	Expo	rt	TX : nui	mber	of trar	nsmis	sions		ſs	Status :
Payload	ł	Expo	rt	TX : nui	mber	of trar	nsmis	sions		S	Status :
Payload : can be	ł	Expo : to	rt	TX : nui RX : fra	mber me re	of trar eceptio	nsmis n (w	sions ith or		S	status : stopped c
Payload can be modified	i I by	Expo : to gener	r t	TX : nui RX : fra	mber me re	of trar	nsmis n (w	sions ith or		s S	Status : Stopped c
Payload can be modified	i I by	Expo : to gener	rate	TX : nur RX : fra without	mber me re error	of trar eceptio s)	nsmis n (w	sions ith or		S S	status : Stopped c
Payload : can be modified the user	i I by as	Expo : to gener a .csv	r t rate / file	TX : nur RX : fra without Frr : Ov	mber me re error	of trar eceptio s) errors	nsmis n (w	sions ith or		S S R	Status : Stopped c Stopping Running
Payload : can be modified the user	i I by as	Expo : to gener a .csv	rate / file	TX : nur RX : fra without Err : Ov	mber me re error verall	of trar eceptio s) errors,	nsmis n (w	sions ith or recep-		S S R	Status : Stopped c Stopping Running
Payload : can be modified the user wanted	i I by as	Expo : to gener a .csv with t	rate / file test	TX : nur RX : fra without Err : Ov tion (ex)	mber me re error: rerall : line	of trar eceptio s) errors, 7 "Tim	nsmis n (w , no i neOu	sions ith or recep- t") or		S S R	status : Stopped c Stopping Running
Payloac can be modified the user wanted	l by as	Expo : to gener a .csv with t	rate / file test ts	TX : nur RX : fra without Err : Ov tion (ex	mber me re error: rerall : line	of trar eceptio s) errors, 7 "Tim	nsmis n (w , no i neOu	sions ith or recep- t") or		S S R	status : Stopped c Stopping Running
Payloac can be modified the user wanted	l by as	Expo : to gener a .csv with t result	rate / file test ts	TX : nur RX : fra without Err : Ov tion (ex frame er	mber me re error: rerall : line	of trar eceptio s) errors, 7 "Tim ex: line	nsmis n (w , no r neOu e 11	ssions ith or recep- t") or "ERR"	· · · · · · · · · · · · · · · · · · · ·	S S R	status : Stopped c Stopping of Running



þ			Installation M	anagemen	t	- • ×
Γ	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_PAYLOADBATTix
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	ОК	20%	00000003_19_PAYLOAD
16	23/10/2019 11:20:38	-66 dBm	-55 dBm	ок	19%	00000003_20_PAYLOAD
pay/	load PAYLOAD Start	Stop	Export		1	TX/F0X/err 016/014/3 status Stopped

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%;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:

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





7. Exiting Radio Link Test Mode

To exit this mode, send the character string «LEAVERFLOOPBACK» to the remote modem from the «RLTest Magic World» field.

On this specific stream reception, the "remote modem":

- 1. acknowledge the "command" sending "ACKLEAVED" (via RF),
- 2. switch S257 to 0 and save It, (RTL OFF),
- 3. returns to its nominal mode, with RTL OFF.

The modem is back to its nominal mode, with the loopback feature OFF.

e Communication ?							
RF868 ULR : COM15 X ARF8	68 ULR : COM14 🗙						
CONFIGURATION OPTIONS	CURRENT CONFIGURATION						
Configuration Export	Radio Management	Serial Link	Protocol	Options			
Configuration Import	Channel number	Baud rate	Mode	Command Mode Timeout			
	11 ~	9600 bits/s v	Transparent mode \vee	0			
Pastars To Default	RF rate	UART interface	Protocol	ASCII character to enter in			
Nestore to Default	2.4 kbits/s v	R\$232 v	Asynchronous cont ~	command mode			
	Preamble duration	Data length	Sub-network address	43			
	0	8 bits v	0	Command mode entry Timeout at 9.6kbps at product start-up			
-	Transmission start-up timeout	Parity	Source address	Enabled v			
	3	None v	34713	Beneater Mode			
	Transmission start-up threshold	Stop_bit	Destination address	•			
	30	1 stop ~	0				
and the second	RSSI mode	Handshake					
Adoutin	RSSI frame ~	Disabled ~					
	RF Output level						
_	27 dBm ~						
	Radio Link Test						
Version :	RTL OFF *						
W_AB_2.4.00_AA_B_2.1.00	RLTest Magic Word	Save On Modem					
	00000003						



The last step is to switch off Radio Link Test on the local modem. To do this, select «RTL OFF» in the «Radio Link Test» cell.



