PARADOX IP REPORTING TO IPRS7

Version 1.0

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Preface

This document will explain Paradox IPRS7 reporting in depth and will cover the following topics:

- Panel reporting configuration
- IPRS7 configuration and operation
- Receivers output configuration for CMS

General presentation

IP reporting to CMS was designed as a fast and reliable communication method, compared to the regular landline/GSM through DTMF reporting.

IP reporting structure

For IP reporting, the following components are required:

- 1. Field communication devices (IP150 or/and PCS devices) which are connected on the panel's serial port
- 2. Software receiver IPR7
- 3. Automation software which is connected through serial connection or IP protocol (UDP) to IPRS7. This software is not developed by Paradox and will communicate with our receiver through one of the following open source protocols: ADEMCO 685, SURGARD MLR2-DG and RADIONICS 6500

Protocols

IPDOX protocol it's used between our field communication devices (IP150 or PCS) and our receivers. This is a proprietary protocol and due to security reasons, it cannot be shared for further integrations.

The protocols used on receivers' output are known protocols used in the physical security industry: ADEMCO 685, SURGARD MLR2-DG and RADIONICS 6500. Once the CMS software is compatible with one of these protocols, it can be integrated with our receivers.

1. Reporting configuration for EVO panels

1.1. Report codes configuration

Report codes can be programmed in Babyware, Panel programming -> Reporting -> Report Codes section. Reporting codes with 00 will not be transmitted and report codes with FF will be transmitted.

By default, all codes are 00 (no signal will be transmitted once the event occurs). These codes should be customized for each event.

If Contact ID report code format is used, then all events should be set as FF. Best practice: type "FF" in the main filed and press the extend button after. In this way all sub-fields will be automatically filled with FF code (Fig. 1). In this way the panel will follow a known Contact ID table for each report code.

Em Reporting					\times
<u>F</u> ile					
Reporting Paths Report Codes					^
Section	Description C	Value			
📮 - Special Alarm		0			
3930	Emergency Panic	FF			
3931	Auxiliary Panic	FF			
- 3932	Fire Panic	FF			
- 3933	Recent Closing	FF			
- 3934	Police Code	FF			
3935	Zone Shutdown	FF			
3936	Duress	FF			
3937	Keypad Lockout Duration	FF			
🕀 Special Arming		0			
E- Special disarming		0			
Arm With Keyswich		0			
. Disarm With Keyswich		0			
		الد			~
X Cancel			•	/ (ж

Fig. 1 Report Codes



1.2. Report codes format configuration

Report codes format can be configured in Panel programming -> Reporting -> Reporting paths -> Global Settings. The reporting codes format can be set for each receiver, from #1 to #4 (Fig. 2). Up to 4 receivers can be configured for reporting.

file									
Reporting Paths Report Codes									
Call Direction Global Settings L	andline and GSM	GPRS/IP	SMS (Text Mes	sages) (Vo	ice (VDMP3)	PC Commu	nication (Baby	Ware)	
Report Code Format				Auto Test	Report Every				
Phone #1 / Receiver #1	7	ADEMCO CON	ITACT ID	✓ ● Every 000 days At 0:00 ♀			3		
Phone #2 / Receiver #2	Ī	ADEMCO CONTACT ID					L		
Phone #3 / Receiver #3 ADEMCO EXPRESS					hour on the mi	inute	0 ‡		
Phone #4 / Receiver #4 ADEMCO SLOW									
				O Every	0	05 min. minu	tes when arm	ed	
Reporting Options					0	60 min. minu	tes when disa	rmed	
Account # Transmission	I	By Area	~						
Report zone restore	ł	Bell Cut-Off	~						
Delay Alarm Transmission			000 sec.	O Every I	hour on the mi	inute	0 🗘		
Delay Power Failure Report			030 min.		Every 000 m	in. minutes w	hen armed		
Power failure restore report delay			030 min.		Every 000 m	in. minutes w	hen disarmed		
Reporting Options	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	
	Area 1	Area 2		41	41	41	A1	Area 8	
Report System Disarming	Always	Always	Always	Always	Always	Always	Always	Always	_
Recent closing	000 sec	UUU sec	UUU sec	000 sec	UUU sec	000 sec	000 sec	000 sec	_

Fig. 2 Report Code Format

1.3. Central Station Info configuration

The receiver parameters need to be programmed in the Central Station Info section (Fig. 3) from the GPRS/IP tab. The following parameters should be programmed in Central station info tab:

a) Receiver's IP and port:

For IPRS7, only WAN 1 IP and port needs to be filled. The second WAN and port are not used once an IPRS7 is used as receiver.

- b) Receiver password by default the IPRS7's password is 123456. This password is used only in registration step, not for receiver management. It can be changed from receiver's Setting tab – Input configuration.
- c) Register button after all receiver parameters are programed and sent to the panel, register button will be pressed.

- d) IP Profile is used to set the security profile polling and supervision time of the communication module. More details can be found in receiver management chapters 3.
- e) Area account is a 4 digits hexadecimal account used to identify the site or different areas of a system. All areas can be registered on the same account or different accounts for each area, if needed.

1	Α	Δ	_A		
porting Paths Report Codes	[]	42	1		11
al Direction Global Settings La	Incline and GSM GPRS/IP SMS (Te	xt Messages) Voice	(VDMP3)	PC Commun	ication (BabyWare)
entral Station Info		ID Paraiuar #1			
WAN1 IP Address WAN1 IP Port	WAN2 IP Address WAN2 IP Port	IP Password	IP Profile		
82.76.223.153 10001	0.0.0.0 10000	123456	03	Register	Registered
		IP Receiver #2			
192.168.1.246 10005	0.0.0.0 10000	123456	02	Register	Registered
		IP Receiver #3			
0.0.0.0 10000	0.0.0.0 10000	123456	00	Register	Registration Error
		IP Receiver #4			
0.0.0.0 10000	0.0.0.0 10000	123456	00	Register	Registration Error
0.0.0.0	0.0.0.0	125430		Negister	Registration Error



1.4. Reporting options

The following reporting options (Fig.4) can be modified on panel programming:

- a) Reporting (GPRS/IP) checkbox this option is enabled by default. Once disabled, even if the reporting parameters are programmed there will be no signal sent to the receiver.
- b) Dialer Channel if dialer reporting is used also for the site, then dialer channel can be set as a backup to IP/GPRS reporting or in addition to the IP/GPRS reporting (same time)
- c) GPRS/IP Service Failure This option will set the behavior of the panel once the GPRS/IP service fails. The default option is Trouble Only. The option can be disabled or set as trouble when the system is disarmed and audible alarm when the system is armed.

Reporting Options		
Reporting (GPRS/IP)		
Dialer Channel	Dialer used as backup to GPRS/IP	O Dialer used in addition to GPRS/IP
GPRS/IP Service Failure Options	Trouble	Only ~

Fig. 4 Reporting options

1.5. GPRS Service Provider Info

If a PCS module (GPRS/3G/LTE communication) is used for reporting, then the SIM card APN, username and password should be filled, in order to be able to connect on carrier's data network (Fig. 5). Access Point Name, Username and password credentials can be sent through SMS commands as well.

GPRS Service Provider Info	Complete this section if you are usin	ng a PCS module for GPRS communication
Access Point Name (APN)	Carrier'sAPN	12/32
User Identification	Carrier'sUsername	17 / 32
Password	Carrier'sPassword	17 / 32

Fig. 5 GPRS Service Provider Info

1.6. Event call direction

There are 4 event types which needs to be programmed to be reported to one or multiple receivers: Arming/Disarming, Alarm/Restore, Tamper/Restore and Trouble/Restore. (Fig. 6)

For example, Arming/Disarming can be programmed to report to Receiver 1 and Tamper to report to Receiver 2.

Troubles can be programmed to have backup on another receiver.

A maximum of 4 IP receivers can be programmed for EVO panels. By default, the panel is programmed to report only to first receiver. If more than one receiver is programmed, like the case from point 1.3, then the event call direction should be programmed as well as for the second receiver.

Reporting								
Eile								
Reporting Paths Report Codes								
Call Direction Global Settings L	andline and GSM	GPRS/IP	SMS (Text Mes	sages) (Vo	oice (VDMP3)	PC Commu	inication (Baby	Ware)
^ Arming/disarming								
Arm/Disarm Events	Area 1 Area 1	Area 2 Area 2	Area 3 Area 3	Area 4	Area 5	Area 6	Area 7	Area 8 Area 8
Phone #1 / Receiver #1								
Phone #2 / Receiver #2		\checkmark						
Phone #3 / Receiver #3								
Phone #4 / Receiver #4								
Backup on	None	None	None	None	None	None	None	None
Alarm Restore								
Alarm/Restore	Area 1 Area 1	Area 2 Area 2	Area 3 Area 3	Area 4	Area 5	Area 6	Area 7	Area 8 Area 8
Phone #1 / Receiver #1								
Phone #2 / Receiver #2								
Phone #3 / Receiver #3								
hone #4 / Receiver #4								
Backup on	None	None	None	None	None	None	None	None
Tamper Restore								
Tamper Restore	Area 1 Area 1	Area 2 Area 2	Area 3 Area 3	Area 4	Area 5	Area 6	Area 7	Area 8 Area 8
Phone #1 / Receiver #1								
Phone #2 / Receiver #2								
Phone #3 / Receiver #3								
Phone #4 / Receiver #4								
Backup on	None	None	None	None	None	None	None	None
Trouble restore								
Event	Phone #1 /	Receiver #1	hone #2 / Rec	eiver #2 Phor	ne #3 / Receiv	er #3 Phone #	4 / Receiver #	4 Backup or
Trouble/Restore All Areas		2						None
Special Report Codes All Areas	6	2			—		Ē	None

Fig. 6 Report call direction

2. Reporting configuration for MG/SP panels

2.1. Report codes configuration

Report codes can be programmed in Babyware, Panel programming -> Reporting -> Report Codes section. Reporting codes with 00 will not be transmitted and report codes with FF will be transmitted.

By default, all codes are 00 (no signal will be transmitted once the event occurs). These codes should be customized for each event.

If Contact ID report code format is used, then all events should be set as FF. Best practice: type "FF" in the main filed and press the extend button after. In this way all sub-fields will be automatically filled with FF code (Fig. 7). In this way the panel will follow a known Contact ID table for each report code.

Reporting		— 🗆 ×
<u>F</u> ile		
Reporting Paths Report Cod	les	
Section	Q Description	Q Value
- Special Alarm		FF
- 863	Emergency Panic	FF
863	Auxiliary Panic	FF
863	Fire Panic	FF
863	Recent Closing	FF
- 864	Zone Shutdown	FF
<mark>864</mark>	Duress	FF
<mark>864</mark>	Keypad Lockout Duration	FF
864	ParademicAlarm	FF
Special Arming		0
- 860	Auto-arming (timed/no movement)	FF
<mark>860</mark>	Late to Close (Auto-arming)	FF
860	No Movement Auto-Arming Enabled	FF
860	Partial Arming	FF
861	Quick Arming	FF
- 861	Arming via PC	FF

Fig. 7 Report Codes on MG/SP panels



2.2. Report codes format configuration

Report codes format can be configured in Panel programming -> Reporting -> Reporting paths -> Global Settings. The reporting codes format can be set for each receiver, maximum 2receivers can be configured for reporting. (Fig. 8).

Event Call Direction	((Penarting Ontions		
Event Cal Direction Events Arm/Disarm Alarm/Restore Tamper/Restore Trouble/Restore Special Report Codes	Phone #1 / Receiver #1 V V V V V V	Phone #2 / Receiver #2	Reporting Uptions Contact ID Override Report System Disarming Report zone restore Delay Alarm Transmission Recent Closing Delay Delay Power Failure Report Clear Events if Fail to Communicate Exceeds	After an alarm Bell Cut-Off 0 sec 0 sec 15 min 0 sec	~
Report Code Format Phone #1 / Receiver #1 Phone #2 / Receiver #2	ADE ADE	MCO CONTACT ID	Auto test report (day)(000 = di Every 0 days at 0 Every hour on the minute Every 5 minutes wh Every 60 minutes wh Every 5 minutes wh Every 5 minutes wh Every 5 minutes wh Every 60 minutes wh	sabled) 0:00 0 en armed en disarmed 0 ten armed en armed en disarmed	

Fig. 8 Global settings

2.3. Central station info configuration

The receiver parameters need to be programmed in the Central Station Info section (Fig. 3) from the GPRS/IP tab. The following parameters should be programmed in Central station info tab:

- a) Receiver's IP and port:
- b) For IPRS7, only WAN 1 IP and port needs to be filled. The second WAN and port are not used once an IPRS7 is used as receiver.
- c) Receiver password by default the IPRS7's password is 123456. This password is used only in registration step, not for receiver management. It can be changed from receiver's Setting tab – Input configuration.
- d) Register button after all receiver parameters are programed and sent to the panel, register button will be pressed.

- e) IP Profile is used to set the security profile polling and supervision time of the communication module. More details can be found in receiver management chapters 3.
- f) Area account is a 4 digits hexadecimal account used to identify the site or different areas of a system. All areas can be registered on the same account or different accounts for each area, if needed.

Reporting	IPRS7 IP and PORT		NOT USED FOR IPRS	7 RE	CEIVER PASSWORD	SECURITY P	ROFILE	REGISTRATION STATUS	
e porting Paths Report obal Settings Landline	Codes and GSM GPRS/IP	SMS (Text)	Mestages) Voice (VDN	1P3) Pager	GCommunica	(BabyWa	ire)	Λ	
Central Station Info									
IP Receiver	WAN1 IP Address	WAN1 IP Port	WAN2 IP Address	WAN2 IP Port	IP Password	IP Profile	Register	Registration Status	
IP Receiver #1	82.76.223.153	10001	000.000.000.000	10000	123456	2	Register	Registered	
IP Receiver #2	192.168.001.246	10005	000.000.000.000	10000	123456	3	Register	Unregistered	
Backup IP Receiver	000.000.000.000	10000	000.000.000.000	10000	123456	0	Register	Registration Error	
Area 1 IP Account #	3333	~					-	-	
Area 2 IP Account #	3333	->	AREA'S ACCOUNT						

Fig. 9 Central station Info

2.4. Reporting options

Following reporting options (Fig. 10) can be modified on panel programming:

- g) Reporting (GPRS/IP) checkbox this option is enabled by default. Once disabled, even if the reporting parameters are programmed there will be no signals sent to receiver.
- h) Diale Channel if dialer reporting is used also for the site, then dialer channel can be set as a backup to IP/GPRS reporting or in addition to the IP/GPRS reporting (same time)
- GPRS/IP Service Failure This option will set the behavior of the panel once the GPRS/IP service fails. The default option is Trouble Only. The option can be disabled or set as trouble when the system is disarmed and audible alarm when the system is armed.

Reporting Options			
Reporting (GPRS/IP)			
Dialer Channel	Dialer used as backup to GPRS/IP		O Dialer used in addition to GPRS/IP
GPRS/IP Service Failure Options	Т	rouble Only	~

Fig. 10 Reporting options

2.5. GPRS Service Provider Info

If a PCS module (GPRS/3G/LTE communication) is used for reporting, then the SIM card APN, username and password should be filled, in order to be able to connect on carrier's data network (Fig. 11). APN, Username and password credentials can be sent through SMS commands as well.

-GPRS Service Provider Into-	Complete this section if you are usin	g a PCS module for GPRS communication
Access Point Name (APN)	Carrier'sAPN	12 / 32
User Identification	Carrier'sUsername	17 / 32
Password	Carrier'sPassword	17 / 32



3. IPRS7's accounts and settings management

The IPRS7 is a software receiver which is running on Windows (only) based computers. It is designed to emulate the IPR512 IP/GPRS receiver directly from a computer without the need for a hardware receiver.

3.1. Input configuration

The Input configuration (Fig. 12) is used to set parameters used for communication with field devices. The following parameters needs to be set in this tab:

- receiver password (used in the registration step on panel side)
- network configuration IP and port
- GSM/GPRS modem configuration if SMS reporting is used as a backup to the GPRS reporting. The IPRS7 will check all available network interface cards (NICs) of the PC and the operator will need to select the proper interface (IP). If the IPRS7 is used in an Internetbased network, the IP port should be forwarded in the router configuration.



seconda						
🖍 Input	Please configure IPRS-7 para	meters (Receiver password, IP port, Outpu				
💪 Output	Password					
Events	Receiver Password	123456				
Security Profiles	IP Devices (WAN)					
Cecunty Fromes	IP Reporting					
Miscellaneous	IP Port	10005				
Operators	IP Server Address	(192.168.100.4) ~				
	GSM/GPRS Modem					
Email Account	SMS Reporting					
Video Settings	Event Retry Delay	20 sec				
	SMS Modem COM Port	~				
Accounts	Baud Rate	57600 bps ~				
	SIM Card PIN					
	Polling	30 seconds ~				
	Signal Strength	5				
	Modem Configuration	Advanced				
	Automation Software					
	Remote Connection					
	Serial					
	Input COM Port					
	Baud Rate	57600 bps				

Fig. 12 IPRS7 input settings

3.2. Output configuration

The output configuration (Fig. 12) will allow communication with the automation software (CMS). IPRS7 supports serial connection as well as IP connection:

- 1. Serial connection the PC should have installed a serial (RS-232) card which will be linked with another PC which runs the automation software (CMS).
- 2. IP connection the IPRS7 will open a port to communicate with through IP with the automation software (CMS).

3.2.1. Configuration of the IPR512 output for IP connection:



Fig.12 IPRS7 output configuration

- 1- Click on settings
- 2- Click on Output
- 3- Program the IP address (this is the address of the PC you want to reach)
- 4- Program the IP port (this is the port for the application you want to reach)
- 5- Select to output format to ADEMCO685, SURGARD MLR2-DG or RADIONICS 6500.

3.2.2. Configuration of the automation software

Hercules SETUP utility by HW-group.com UDP Setup Serial TCP Client TCP Server UDP	Test Mode About	
ReceivedSet 64a 42 1188 18 R401 01 CC001 42 2388 18 R401 02 CC01 42 3988 18 R401 03 CC01 42 588 18 R401 03 CC01 42 588 18 R401 05 CC01 42 588 18 R401 05 CC01 42 7688 18 R401 05 CC01 42 778 18 R401 05 CC01 42 7188 18 E602 00 CC00 42 1188 18 E602 00 CC00	TCP Prot 193:168.1223 10051 Pro X Deconnect TEA ar/forisation 10050 1.01020304 2.059A0B0C 2.05660708 4.000E0F10 Authorization code Image: State code	Section to receive events Same port as in IPRS7 output port Address of the PC that IPRS7 is installed Events coming from IPRS7
- Send	PotSize test NVT disable Received jest data F Redetest to UDP HEX Send Hervies STUD etillow Hervies STUD etillow	

Fig. 13 CMS configuration for IP reporting

- 1- Open Hercules software
- 2- Click on TCP client
- 3- Program the IP address of the PC that the IPRS7 is installed
- 4- Program the same port that you have configured in the IPRS7

3.3. Events configuration

In the Events tab (Fig. 14) are two main categories of events which can be customized on IPRS7.

The first category is related to accounts (account supervision loss/restore and account registration/deletion).

The second category is related to receiver internal events. All these events could be configured per the CMS recommendations. Receiver events will be reported on a specific account which should be configured in the same page.



Input	Event	Reportable	Event CID code	
Cutput	Account Supervision Lost		000	Τı
	Account Supervision Restored		000	
Events	Account Registered		000	14
	Account Imported		000	
Security Profiles	Module Registered		000	
Miscellaneous Operators	Account #: 0000 Receiver Events	Reportable	Event CID code	_
Miscellaneous	Account #: 0000 Receiver Events			
Miscellaneous Operators	Account #. 0000 Receiver Events Event	Reportable	Event CID code	
Miscellaneous Operators Email Account	Account #: 0000 Receiver Events Event GSM Modem Connection Failure OSM Modem Connection Failure	Reportable	Event CID code	
Miscellaneous Operators Email Account	Account #: 0000 Receiver Events Event GSM Modem Connection Failure GSM Modem Connection Restore Automation Software Computing Contention Failure	Reportable	Event CID code 000 000	
Miscellaneous Operators Email Account Video Settings	Account #: 0000 Receiver Events Event GSM Modem Connection Failure GSM Modem Connection Restore Automation Software Communication Failure dutomation Software Communication Failure	Reportable	Event CID code 000 000 000	
Miscellaneous Operators Email Account Video Settings Accounts	Account #: 0000 Receiver Events Event GSM Modem Connection Failure GSM Modem Connection Restore Automation Software Communication Failure Automation Software Communication Restore Account Backun	Reportable	Event CID code 000 000 000 000	
Miscellaneous Operators Email Account Video Settings Accounts	Account #: 0000 Receiver Events Event GSM Modem Connection Failure GSM Modem Connection Restore Automation Software Communication Failure Automation Software Communication Restore Account Backup Account Restoral	Reportable	Event CID code 000 000 000 000 000 000	
Miscellaneous Operators Email Account Video Settings Accounts	Account #: 0000 Receiver Events Event GSM Modem Connection Failure GSM Modem Connection Restore Automation Software Communication Failure Automation Software Communication Restore Account Backup Account Restoral Event Backup	Reportable	Event CID code 000 000 000 000 000 000 000	
 Miscellaneous Operators Email Account Video Settings Accounts 	Account #: 0000 Receiver Events Event GSM Modem Connection Failure GSM Modem Connection Restore Automation Software Communication Restore Automation Software Communication Restore Account Restoral Event Backup Event Restoral Event Restoral	Reportable	Event CID code 000 000 000 000 000 000 000 000 000 0	

Fig. 14 Events tab

3.4. Security profiles

The IP reporting devices send a presence message to the receiver at intervals defined by the module polling time. If the receiver does not receive any presence messages within the receiver supervision time, the receiver can report a supervision loss of the account. There are five security profiles by default with specific polling times and supervision times. These security profiles can be modified using the Show Advanced option.

												×
. torona	Secu	rity Profiles			-							
Input	Poliin	ig Time + (3 x 20 sec) <	sup	ervisio	on Time							
Output	The re	eporting device polls th	e rec	eiver (IPRS-7) at interva	als d	lefined	by the Module F	ollin	g Time.		
Joupur	If the i	receiver does not acknow	owle	dge, th	e reporting devic	e wi	Il atterr	opt to retry (3 tim	ies at	intervals of 20 second	onds).	
Events	Recei	iver Supervision Time	uer u	rieule	s and reuy delay	can	be mo	dilled.				
0.000	If the r	receiver does not receiv	ve an	y polli	ng within the Rec	ceive	r Supe	rvision Time, th	e rec	eiver can report a su	pervisio	on los
Security Profiles												
Miscellaneous												
, miscellaneous												
Operators	Show	Advanced										
Email Assount		Name	Q	Modu	Ile Polling Time		Supe	rvision Time		Accounts with this	profile	
P Email Account	00	No Supervision		6	hours	•	0	seconds	•	0		
Video Settings	01	Low Security		20	minutes	•	2	hours	•	0		
	02	Medium Security		10	minutes	•	40	minutes	•	1		
Accounts	03	High Security		2	minutes	•	10	minutes	•	1		
	04	Maximum Security		25	seconds	•	90	seconds	-	0		
	Add	tem (5/32)										

Fig. 15 IPRS7 Security Profiles

3.5. Miscellaneous

In this tab, the site name, custom logo and session expiry time can be set.

There are options to activate the logging mechanism of the receiver: log file size, log file lifetime and logs folder. These should be activated if something goes wrong with the receiver and logs are requested by Paradox Support Team in order to be investigated by the R&D.

Input		
	Site Name	My Site
Output	Session Expiry Timeout (0-60min)	60
Events	Buffered Events	50,000
Security Profiles	Show custom logo	
Miscellaneous	Custom Logo (375x45)	
	Log	
Operators	Enable memory log	
Email Account	Enable file log	
- Eman Account	Log level	ERROR
Video Settings	File log parameters	
	Max disk size (MB)	10
Accounts	Log file lifetime (days)	0
	Log file interval (min)	0
	Log folder	C:\Program Files (x86)\Paradox S
	Event Log to File	
	Enable Event File Log	
	Log Folder	C:\Users\Public\Documents\Para
	Max File Size (in Kb)	1000 🜲
	Frequency for Folder creation	Daily

3.6. Operators

Up to 256 operators could be added for IPRS7 login. It's recommended to add an email address for each operator for password recovery purposes. In case that a password is forgotten, the operator has the option to receive the password over email once the fields from chapter 3.7 are properly configured.

E settings	_									×
🖍 Input	# 🔺	Enabled	User Name	QI	.ogin Name	Q	Login Password	Security Level	Email Address	Q
	2	V	Operator		operator		Change	Medium Security + Administrators	operator@paradox.com	1
Cutput	Add o	perator (2/25	6)		aurini		Strangen	, 10, 11, 10, 10, 10, 10, 10, 10, 10, 10	intering paradetectori	
Events										
Security Profiles										
Miscellaneous										
Operators										
Email Account										
Video Settings										
Accounts										
Cancel									1	Ok
			Fig	17 ()nera	to	rs			
			8.	<u> </u>	peru					

3.7. Email account

In this section an email account can be set to recover an operator's password. Once the email is properly configured, by pressing the Forgot password button in the login dialog box, the password will be received on the email address added for each operator.

Settings		- 🗆 ×
nput	Email Account	
	Outgoing Server (SMTP)	
🐧 Output	Active	
Events	Host	
O	User Name:	
Security Profiles	Password:	
Miscellaneous	Port	25
	Use SSL	\leq
Coperators	Email Address:	
Email Account		Test Email
Video Settings		
Accounts		
Cancel		✓ Ok
	Fig. 18 Email acco	ount

3.8. Video settings

Video settings were used for HD77 camera integration. It's not used anymore for current cameras. Latest 4.1.6 version does not support HD78/88 camera integration.

3.9. Accounts

Accounts tab (Fig. 19) allows a few advanced settings for sites registered to the IPRS7: set remote access parameters to allow operators to arm/disarm sites or to control PGMs.

Also, in this section a security level can be assigned to each account. Based on these security levels, operators with higher or lower access level will be able to connect only to the assigned sites. Remote connections are not supported on EVO panels version 7.10 and above or for MG series ECO S029 and S030.



P 🔺 R 🔺 D C) X [™]
-------------	------------------

Input	# 🔺	Account # 🔍	Label	Q	Connect to Panel	Security Level		IP Port	IP/PCS	Passwo
	9	1111	N/A			Low Security	•	10000	******	
S Output	10	5555	N/A			Low Security	•	10000	******	
Events										
Security Profiles										
Miscellaneous										
Operators										
Email Account										
Video Settings										
Accounts										
	1									

Fig. 19 Accounts tab

3.10. IPRS7 events main window

The main screen of the IPRS7 is organized in two tabs, Events and Accounts.

Events tab (Fig. 20) is used to monitor each event transmitted by the communication modules to the IPRS7. The Event list is mostly used for troubleshooting, in order to find out if the events are properly transmitted to the receiver. Event list CANNOT replace the functionalities of a dedicated CMS software. It does not contain features to customize the events by type or to generate audible alarms in case of an alarm type.

Events	Accounts										
1	- 😋 2069 / 50000 Even	ts									
ID V	Date and Time	Account #	0	Event CID #	Description	Q	Partition/Door	Zone/User	Received From	Status	0
76	6/20/2019, 3:43:31 PM	9123	U	3 407	Remote Arm by User		01	001	00:19:BA:0B:41:2B	Not reported, monitoria	ng
75	6/20/2019, 3:40:03 PM	9123		1 602	Periodic test report		00	000	00:19:BA:0B:41:2B	Not reported, monitoria	ng
74	6/20/2019, 3:37:40 PM	9123		1 412	Successful download/access		00	000	00:19:BA:0B:41:2B	Not reported, monitoria	ng
73	6/20/2019, 3:35:02 PM	9123		1 602	Periodic test report		00	000	00:19:BA:0B:41:2B	Not reported, monitorin	ng
72	6/20/2019, 3:34:03 PM	9123	۲	1 602	Periodic test report		00	000	00:19:BA:0B:41:2B	Not reported, monitoring	ng
71	6/20/2019, 3:33:02 PM	9123		1 602	Periodic test report		00	000	00:19:BA:0B:41:2B	Not reported, monitoring	ng
70	6/20/2019, 3:32:02 PM	9123	۲	1 602	Periodic test report		00	000	00:19:BA:0B:41:2B	Not reported, monitoring	ng
69	6/20/2019, 3:31:02 PM	9123	۲	1 602	Periodic test report		00	000	00:19:BA:0B:41:2B	Not reported, monitori	ng
68	6/20/2019, 3:30:08 PM	9123		1 602	Periodic test report		00	000	00:19:BA:0B:41:2B	Not reported, monitorin	ng
67	6/20/2019, 3:30:07 PM	9123		1 407	Remote Disarm by User		01	001	00:19:BA:0B:41:2B	Not reported, monitorin	ng
66	6/20/2019, 3:29:36 PM	9123		3 407	Remote Arm by User		01	001	00:19:BA:0B:41:2B	Not reported, monitori	ng
65	6/20/2019, 3:29:02 PM	9123		1 602	Periodic test report		00	000	00:19:BA:0B:41:2B	Not reported, monitorin	ng
64	6/20/2019, 3:28:03 PM	9123		1 602	Periodic test report		00	000	00:19:BA:0B:41:2B	Not reported, monitori	ng
63	6/20/2019, 3:27:02 PM	9123		1 602	Periodic test report		00	000	00:19:BA:0B:41:2B	Not reported, monitori	ng
62	6/20/2019, 3:26:02 PM	9123		1 602	Periodic test report		00	000	00:19:BA:0B:41:2B	Not reported, monitorin	ng
61	6/20/2019, 3:25:44 PM	9123	۲	1 407	Remote Disarm by User		01	001	00:19:BA:0B:41:2B	Not reported, monitorin	ng
60	6/20/2019, 3:25:32 PM	9123		3 407	Remote Arm by User		01	001	00:19:BA:0B:41:2B	Not reported, monitori	ng
59	6/20/2019, 3:25:03 PM	9123		1 602	Periodic test report		00	000	00:19:BA:0B:41:2B	Not reported, monitorin	ng
58	6/20/2019, 3:24:07 PM	9123		1 602	Periodic test report		00	000	00:19:BA:0B:41:2B	Not reported, monitoring	ng
57	6/20/2019, 3:24:06 PM	9123		1 407	Remote Disarm by User		01	001	00:19:BA:0B:41:2B	Not reported, monitori	ng
56	6/20/2019, 3:23:48 PM	9123		3 407	Remote Arm by User		01	001	00:19:BA:0B:41:2B	Not reported, monitoria	ng
55	6/20/2019 3:23:38 PM	9123		1 412	Successful download/access		00	000	00:19:BA:0B:41:2B	Not reported monitoring	na

Fig. 20 Event page

3.11. IPRS7 Accounts main window

Accounts window (Fig. 21) will display all sites registered to the IPRS7. In this page the operator will be able to modify the Security profile for accounts or to add labels to accounts. Also, in this page there are details about panels or communication devices. Accounts can be deleted

from the same page, by selecting the account -> right click -> Delete account. In order to be used for future installation the account should be deleted also from Backup/Restore -> Recycle bin.

	- 💜 2 Ac	counts															
Status	Account Q	ID	Label	Q	Profile ID	Protocol ID	Panel Type	Panel Serial # Q	Panel version	Module T	Module Serial #	Q Module ve	▼ Registered	Last Event/Po	Last IP Addr. Q	MAC Addre	Log to
Active	1111	9	N/A		03 🔹	ADEMCO CID	EVOHD	07003AC5	7.30	IP150	710745F0	5.02	3/26/2020, 3:21	3/27/2020, 4:07	192.168.100.14	00:19:BA:0E:	
Active	5555	10	N/A		02 •	ADEMCO CID	MG5000	201A3E54	4.90	IP150	710358CC	5.02	3/26/2020, 3:38	3/27/2020, 4:06	192.168.100.15	00:19:BA:06:	~

Fig. 21 Accounts page

4. Backup/restore procedures for Paradox receivers

4.1. Backup/restore for IPRS7 receiver

There are two methods to backup accounts and events for the IPRS7.

4.1.1. Automatic backup option

IPRS7 should be set to backup the accounts and events automatically. This option can be configured in Backup/Restore menu -> Backup menu.

For accounts, a filename prefix and destination path can be set.

For events, a filename prefix and destination path and the automatic backup interval can be set.

an ann an tha ann an t				
Backup	Backup:			1
Restore	Manage automatic backups a backup includes activity logs	nd/or perform manual ba	ckupAccount backup includes IP	RS-7 settings. Event
Recycle Bin	Password:			
	Password	•••••	Confirm Password	•••••
	Accounts:			Confirm Password
	Auto-Backup	Every time an accoun settings are changed	t is modified, added or deleted a	nd/or when the IPRS-7
	Filename prefix	IPRS7backup	(optional)	
	Backup filename	IPRS7_Backup_Acco	ounts_dd_MM_yyyy_HH_mm_ss	
	Destination path	C:\Users\test\Docum	nents\backup\IPRS7backup	
	Events:			
	Auto-Backup	Every 01	~ hours ~	
	Filename prefix		(optional)	
	Backup filename	IPRS7_Backup_Even	nts_dd_MM_yyyy_HH_mm_ss	
	Destination path	::\Users\Public\Docu	ments\Paradox Security Systems	Backup/IPRS-7/Events
	Delete events after backup			
			Manual	backup d Oc

Fig. 22 Automatic backup

4.1.2. Manual backup option

IPRS7 support also manual backup that can be found in the Backup/Restore menu. A manual backup for accounts and events is recommended when a receiver migration is scheduled. In this way the operator will be sure that all details will be migrated to the new IPRS7.

Manual backup		\times
This will use the sa You can modify the	ime password and path as the last saved Auto-backup settings. settings which will apply to this backup only	
Accounts		
Auto-Backup	Every time an account is modified, added or deleted and/or when the IPRS-7 settings are changed	
Filename prefix	acc1 (optional)	
Backup filename	acc1IPRS7_Backup_Accounts_dd_MM_yyyy_HH_mm_ss]
Destination path	C:\Users\test\Desktop	
Events		
Filename prefix	eve1 (optional)	
Backup filename	eve1IPRS7_Backup_Events_dd_MM_yyyy_HH_mm_ss]
Destination path	C:\Users\test\Desktop	
Delete events af	ter backup	
X Cancel	🖌 🗸 🗸	Ok

Fig. 23 Manual backup

4.1.3. Restore option

In order to restore accounts and events on a new IPRS7 (in case that the first receiver fails) the user should access Backup/Restore menu -> Restore tab (Fig. 24).

Here, the accounts and backup files will need to be imported. It doesn't matter how the backup was done (automatic mechanism or manually), the backup files will be uploaded in the same way.

Backup	Restore:
Restore	Restored account will be merged with existing accounts. Any conflicts will be identified Restored events will appear in a separate view, that won't affect the live events view
Recycle Bin	Accounts:
	Select backup [C:\UsersitestDocuments\backup\\PRS7_Backup\PRS7_Backup_Accounts_2] Type Password [
	Select backup C:UsersiPubliciDocumentsiParadox Security Systems/Backupi/PRS-7/Event
Cancel	A Restore

Fig. 24 Restore option

4.2. Backup from IPRS7 and restore to IPR512

This chapter will explain the steps that need to be followed in order to import IPRS7 accounts to IPR512 receiver.

Versions used:

IPR512 2.96.000 IPRS7 4.1.6 or above

IPR512 DB Conversion tool

In order to be able to convert accounts from IPRS7 to IPR512 below software should be downloaded and run as administrator on the machine where IPRS7 is installed:

https://drive.google.com/open?id=1Wf4Oh6LeSokWDx9j05_ZSw0WCEdWfYkt

Basic requirements

- 1. NEW SD card (It is preferred NOT TO use SD cards with previous IPR512 backups)
- 2. IPR512 V2.96
- 3. IPRS7 installed and operating (Not a specific version is required)
- 4. PC where the user has full admin rights is required to run DBIPR512convert.exe

Extracting IPR512 DB Conversion tool

- 1. Create a Folder to extract DBIPR512converter.zip
- 2. Extract the zip file in the folder created
- 3. The following information should be available in the folder

۸	DBIPR512Convert
4	libcrypto-1_1.dll
	ParadoxNetwork.dll
	PDXTurnClient.dll

Fig. 25 IPR512 DB Conversion tool folder



General software view

The following options form the tool will be available:

Paradox IPR512 DB Conversion Tool Ver. 2020.2.14.0								-	
	Ρ		R		D	0	X	8	
This :	app will	l convert	t IPRS-7 (database	to IPR51	2 SD Card	. No mo	re than	1024
acco	Select IP	RS-7 Data	ved. Base	p p	Expo	rt to SD Card	l i		
		Pand			145	ne Dick			
		Read			Wi	pe Disk			

Fig. 26 IPR512 DB conversion tool - software view

- <u>Select IPRS-7 DataBase</u> option: allows you to select the database folder to convert to IPR512
- Export to SD Card option: Only available when you select a valid IPRS-7 DataBase
- <u>**Read**</u> option: It is used to read the content of an SD card for R&D analysis in case of an error (please refer to the end of document for additional information)
- <u>Wipe Disk</u> option: It is used to wipe out the information of an SD card. It is recommended to use it specially if you have an Access Denied Error with an SD card. The time this process takes varies depending on the size of the card. (4GB cards takes 5-10 min, 32 GB cards takes about 30 min)

WIPE DISK Option:

- 1. Select the File DBIPR512Convert tool and run as administrator
- 2. The tool will show the following option

À Paradox IPF	R512 DB Con	version Too	ol Ver. 2020.	2.14.0			-		×
Ρ		R		D	0	X∗			
This app wi accounts c	il convert an be sav	IPRS-7 (red.	database	to IPR512	2 SD Card	. No more	than	1024	
Select I	PRS-7 DataB	lase							
	Deed			146-	- Dist.				
	Kead			wip	e Disk				
	Read			Wip	e Disk				

Fig. 27 DBIPR512Convert tool – first opening

3. Select Wipe Disk Option and the following menu will appear

Paradox IPR512 DB Conversion Tool Ver. 2020.2.14.0	—		\times
P 🔺 R 🔺 D O X [®]			
This app will convert IPRS-7 database to IPR512 SD Card. No more accounts can be saved.	than	1024	
Select IPRS-7 DataBase			
Read Warning > This will delete all data permanently, do you to continue?	<		
Yes No]		

Fig. 28 Wipe disk

4. Click Yes. If a message with an error appears, please click OK and repeat the process ▲ Paradox IPR512 DB Conversion Tool Ver. 2020.2.14.0 - □ × |

This app will con accounts can b	nvert IPRS-7 e saved.	database	to IPR512	SD Card	No more th	an 1024
Select IPRS-7	DataBase	1				
Rea	d		Wip	e Disk		
	Paradox IPR512	database cor	nversion tool		×	
Detected Removable PR512 backup file fo	Something we	nt wrong rep	eat the wipir	ng		
Detected IPR512 Med Wiping the Data Dease wait from 5 to					OK	
Data Has been delete	d successfuly					
				Microsoft	DiskPart versior	10.0.18362.1
				Copyright On compu	(C) Microsoft C Iter: DESKTOP-E	orporation. BSUMAQ
				Disk 1 is no	w the selected	disk.

Fig. 29 Error after Wipe Disk is selected

5. The below message will appear indicating an approximate time for the process to complete.

					6.3
P 🔺 R	A D	0	X®		
This app will convert IPRS-7 accounts can be saved.	database to IPR51	2 SD Card.	No more than	1024	
Select IPRS-7 DataBase					
Read	Wij	pe Disk			
R512 backup file found Will export etected IPR512 Media. /iping the Data lease wait from 5 to 10 min to compl	ito backup file 1/10 [IPF iete the process	2512 ID: 99]			Í

Fig. 30 Wipe disk progress

- 6. In case there is a message on the top of the window not responding please let the process continue until the end.
- 7. There will be a prompt message indicating the process is completed and you will be asked to remove the SD card.

A Paradox IPR512 DB Conversion Tool Ver. 2020.2.14.0	-		×
P 🔺 R 🔺 D O X	*		
This app will convert IPRS-7 database to IPR512 SD Card. No m accounts can be saved.	ore thar	1024	
Select IPRS-7 DataBase			
Read Wipe Disk			
Detected Removable Media on \\.\PhysicalDrive1 Handle=2244		_	^
Detected IPR512 Media. Paradox IPR512 database conversion tool	×		
Wiping the Data Please wait from 5 to 10 m Data Has been deleted su	R512		
Detected Removable Med IPR512 backup file found.	ОК		
Vining the Data			



- 8. At this point please remove the SD card and click OK
- 9. After doing the above process please follow the instructions below to convert the database from an IPRS-7 to IPR512

Database transfer from IPRS7 to IPR512

- 10. Insert the SD card in the slot of the IPR512
- 11. Create a backup from the IPR512 (default password: admin)
- 12. Remove the SD card from IPR512 and insert it in the PC where the IPRS7 and IPR512 DB Conversion Tool are running.
- 13. Close and exit the IPRS-7 session
- 14. Run as administrator the tool "DBIPR512 convert tool"
- 15. Select the option "select IPRS-7 Database"

A Paradox IPR512 DB Conversion To	ool Ver. 2014	.4.0.44			_		×
P 🔺 R		D	ο	X®			
This app will convert IPRS-7 accounts can be saved.	database	to IPR512	2 SD Card	. No more	than	1024	
Select IPRS-7 DataBase							
Read]						

Fig. 32 Selecting IPRS7 database

16. Browse and select the folder Data under users/public/public documents/Paradox Security Systems/ IPRS7/ {949f...}/data

P 🔺 R 🔺 D C	X ®	
Select IPRS-7 DataBase	Card. No more than 1024	
Read		
Browse For Folder		
 Users Default ippelstest Public Libraries Public Documents Public Documents Public Documents BabyWare BabyWare BabyWare InField IPField 		
4949FD725-EF16-4FFC-BA71-06343	3D9E180E}	

Fig. 33 IPRS7 database path

- 17. Click OK
- 18. Select the option of export to SD card

A Paradox IPR512 DB Conversion Tool Ver. 2014.4.0.44 —								
P 🔺 R		D	0	X	0			
This app will convert IPRS-7 accounts can be saved.	database t	to IPR512	2 SD Card.	No mor	re than	1024		
Select IPRS-7 DataBase	₽ ₽	Export	t to SD Card					
Read								

Fig. 34 Exporting IPRS7 database to SD card

19. If there are accounts that need to be removed or added please select those accounts to be added and deselect the ones not desired

A Selec	t Accounts	-		\times
	Please select the accounts you want to export to	the IPR	152	
C111				^
C120				
2 551F				
2 7926				
8972				
B733				
1867				
2 704C				
892E				
B474				
7548				
2 876F				
2782				
C126				
103E				
6259				
C125				
2608				
C127				
8975				
2 1807				
2 3338				
2 6411				
2 7996				
2 1006				
6891				
27800				
2 4406				
2 8974				
2736				
2 74F8				
27078				
6947				
2278				
7815				
9100				
8976				
🖌 163F				
✓ 788E				
2084				
1680				
3673				
7865				¥
There are	848/848 item(s) selected.	Ok	Cano	el le

Fig. 35 IPRS7 database management

Ρ	R	D	0	X™

20. Message below should appear (media update successful)

A Paradox IPR512 DB Conversion Tool Ver. 2014.4.0.44	-		×
P 🔺 R 🔺 D O X [®]			
This app will convert IPRS-7 database to IPR512 SD Card. No more accounts can be saved.	than 1	024	
Select IPRS-7 DataBase			
Read			
Detected Removable Media on \\ \DhvsicalDrive1 Handle-2712			
IPR512 backup file found Will export to backup file 1/10 [IPR512 ID: 99] Detected IPR512 Media. Writing to Media.			
Media update successful			

Fig. 36 Exporting progress

- 21. After the backup is being generated please remove the SD card from the PC
- 22. Insert the SD card in the IPR512 slot
- 23. Select the backup menu option from the IPR512 LED screen an restore the backup (Only one backup will be available)
- 24. In the LED screen should be seen the amount of accounts generated and should match the accounts you wanted to restore from the backup in your IPRS-7

READ Option - used for R&D analysis in case of an error

- 1. Select the File DBIPR512Convert tool and run as administrator
- 2. The tool will show the following option

Paradox II	R512 DB Cor	nversion To	ol Ver. 2020.	2.14.0			-		×
Ρ		R		D	0	X®			
This app v accounts	vill convert	t IPRS-7 ved.	database	to IPR512	2 SD Card	. No more	than	1024	
Select	IPRS-7 Data	Base							

Fig. 37 Read option

Ρ	R	D	0	X

3. Select Read Option and the following menu will appear

A Paradox IPR512 DB Conversion To	ol Ver. 2020.	2.14.0			—		
P 🔺 R		D	0	X∗			
This app will convert IPRS-7 accounts can be saved.	database	to IPR51	2 SD Card.	No more	than	1024	
Select IPRS-7 DataBase							
Read		Wip	e Disk				
Detected Removable Media on \\.\Ph	/sicalDrive1 H	landle=708					
PR512 backup file found Will export Detected IPR512 Media.	to backup fil	le 1/10 [IPR	512 ID: 99]				
Fig	g. 38 Re	ad pro	ogress				

4. You will be asked to save the file, please select a folder where you want to save the file.

🔺 Save As	
$\leftarrow \rightarrow \checkmark \uparrow$	🔜 > This PC > Desktop >
Organize 🔻	New folder
Fi	g. 39 SD card image saving location

5. Send the file to the Paradox contact which was asking for the file

