VICTORIAN PLAYER ACCOUNT EQUIPMENT TECHNICAL REQUIREMENTS DOCUMENT

December 2016 Version 2.0



Victorian Commission for Gambling and Liquor Regulation



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1 Glossary

This chapter sets out the glossary of standard terms and abbreviations used by the Commission and relevant to the Player Account Equipment Technical Requirements document.

Term or Abbreviation	Description
Act	Means the <i>Gambling Regulation Act 2003 (Vic)</i> , as amended from time to time
Ancillary Service System	A system, including software and hardware that caters for provision of additional services offered within a venue that may be connected to gaming and/or monitoring and/or PCS equipment.
Australian/New Zealand Gaming Machine National Standards	Refer to the National Standards
Casino	Has the same meaning as in the Casino Control Act
Casino Control Act	Means the Casino Control Act 1991 as amended from time to time
Casino Operator	Has the same meaning as defined in the Casino Control Act
CMCS	The Central Monitoring and Control System, made up of host CMCS, Venue CMCS and network components, of the Licensee's gaming monitoring network as refer to in section 3.1.6 of the VCR,
Commission	The Victorian Commission for Gambling and Liquor Regulation established under the <i>Victorian Commission for Liquor and Gambling Regulation Act</i> 2011 or any successor body
Commission Standards	The relevant Commission gaming standards are the standards referred to in section 3.5.3 of the Act
Data	Means all data and expressions of data contained in, or processed or generated by, the Pre-commitment System including without limitation:
	 All data and expressions of data comprising reports generated by the Pre-commitment System; and
	ii). All data and expressions of data about or relating to or generated by agents and contractors stored within the Pre- commitment System.
Gambling Regulation (Pre-commitment and Loyalty) Regulations.	Regulations that are made under section 11.2.1 of the <i>Gambling Regulation Act 2003</i> , as amended from time to time.
Gaming Machine	Has the same meaning as defined in the Act
Gaming Monitoring Activities	Means the establishment, operation and maintenance of the Monitoring System, the provision of Monitoring Services and the sale, supply and possession of Monitoring Equipment in accordance with section 3.4.4(1)(a), (b) and (c) of the Act and the Scope of Services set out in the Monitoring Licence and Related Agreements

Term or Abbreviation	Description
Gaming Networks	The networks that make up gaming include the systems and components of gaming, monitoring and pre-commitment networks
Gaming Venue	Has the same meaning as Venue
Hardware	All physical components (electrical and mechanical) making up the Player Account Equipment
Interface Card	A computer device which is located inside gaming equipment, or a Gaming Machine, and performs various functions such as protocol conversion, for example a Slot Machine Interface Board in a gaming machine
Monitoring Licence	Means the licence granted and issued under the Act by the Minister to authorise the conduct of the gaming monitoring activities
Monitoring Licensee	The holder of the licence granted and issued under the Act by the Minister to authorise the conduct of the gaming monitoring activities
Minister	The Victorian Minister responsible for Liquor and Gaming Regulation
Monitoring Equipment	Has the same meaning as defined in the Act
Monitoring System	Means the electronic monitoring system referred to in section 3.4.4 of the Act and includes, without limitation, all adaptations, modifications, enhancements to that system made at any time before or during the term
National Standards	The core requirements, common to all jurisdictions, for the design of Gaming Machines and games for operation throughout Australia and New Zealand and to guide to suppliers of testing services in their testing for compliance with the standard
Pre-commitment Scheme	Pre-commitment scheme means the interface between player account equipment and the player cards with the pre-commitment system that allows players to provide information to and receive information from the pre- commitment system
PIN	Personal Identification Number
Player Account Equipment (PAE)	Has the same meaning as defined in the section 3.8A.1 of the Act
Pre-commitment System (PCS)	Means the electronic pre-commitment system referred to in sections 3.4.4 (1)(a), (b) and (c) of the Act
Regulations	See: Gambling Regulation (Pre-commitment and Loyalty) Regulations
Roll of Manufacturers, Suppliers and Testers	Has the same meaning as The Roll set out in section 3.4.60 of the Act
Tester	Means a supplier of testing services listed on the Roll of Manufacturers, Suppliers and Testers as described in the chapter 3 of the Act
Touch Screen	A display that can interact with the user by touching the video monitor screen
Unique Identification Number	Means the number allocated by the pre-commitment system and stored on a person's player card that enables the pre-commitment system to identify the persons player account
VCGLR	The Victorian Commission for Gambling and Liquor Regulation

Term or Abbreviation	Description
VCR	Victorian Central Monitoring and Control System Requirements
Venue CMCS	Components of the CMCS located within a Venue
Venue Operator	The holder of a Venue Operator's Licence, a Licence issued under Division 2 of Part 4 of Chapter 3 of the Act, as defined in the Act
Venue	Has the same meaning as an approved venue as defined in the Act, as well as the Melbourne Casino.
Victorian Technical	Means the current versions of the:
Standards	 Victorian Pre-commitment System Requirements document issued by the Commission, as amended by the Commission from time to time
	 Victorian Player Account Equipment Technical Requirements document issued by the Commission, as amended by the Commission from time to time (this document)
	 Victorian Central Monitoring and Control System Requirements document issued by the Commission, as amended by the Commission from time to time
	 Australia/New Zealand Gaming Machine National Standard (National Standard) as amended from time to time and
	 Victorian Appendix to the Australia/New Zealand Gaming Machine National Standard (Victorian Appendix), as amended by the Commission from time to time



This chapter introduces the background to the Victorian Player Account Equipment Technical Requirements document.

2.1 Document purpose

The document sets the minimum specifications of the Player Account Equipment (PAE) and identifies highlevel technical requirements that PAE must meet for the operation of the pre-commitment scheme.

The standard does not prescribe the make, model or software interface of or for PAE, and are considered out of scope for the purpose of this document. Appendix D includes the Intralot PAE Interface Specification required for PAE to connect into the system.

This standard is made in accordance with section 10.1.5A of the Act.

The contents of this document may be updated from time to time.

2.2 Background

Pre-commitment is a technological system that helps to minimise harm by providing a tool to assist players to control their gambling behaviour and avoid escalating gaming into harmful levels of play. The Victorian Government's pre-commitment policy states that the pre-commitment scheme:

- is mandatory on all gaming machines, at all gaming venues across Victoria including the Melbourne casino
- is provided via a networked system with gaming machines connected to a central database
- shares existing infrastructure to ensure maximum efficiency and economies of scale
- shares PAE with loyalty systems to ensure maximum efficiency and economies of scale

The installation of PAE on or in a gaming machine and/or in a gaming venue is required to facilitate the precommitment scheme. It is a suite of hardware devices that each gaming venue will be required by legislation to procure and install before the pre-commitment scheme commences on 1 December 2015. The description of the required PAE is detailed in the Gambling Regulation (Pre-commitment and Loyalty) Regulations 2014, as amended from time to time.

In the Act, Player Account Equipment means the following equipment:

- interactive display at the gaming machine
- card reader at the gaming machine
- kiosk
- card reader at the kiosk
- keypad at the player service point
- card reader and card encoder at the player service point
- player card
- .or any other equipment that is prescribed as player account equipment

2.3 Related documents

The technical requirements described in this document align with the following Australian and Victorian instruments, as amended from time to time:

- Australian/New Zealand Gaming Machine National Standard as approved in Victoria
- <u>Victorian Appendix to the Australian/New Zealand Gaming Machine National Standard</u>
- Gambling Regulation Act 2003
- Casino Control Act 1991
- Gambling Regulation (Pre-commitment and Loyalty Scheme) Regulations 2014
- Victorian Pre-commitment System Requirements document

The technical requirements described in this document refer to the following ISO standards:

- ISO/IEC 7811 Identification cards Recording technique
- ISO/IEC 7810 Identification cards Physical characteristics

2.4 Document scope

The player account equipment for the purpose of this document includes the following equipment:

- interactive display at the gaming machine
- card reader at the gaming machine
- kiosk
- card reader at the kiosk
- service point workstation
- keypad at the player service point
- card reader and card encoder at the player service point
- player card

3 General requirements

This chapter describes the overarching requirements relating to all PAE in Victoria.

3.1 General

PAE must connect to the pre-commitment system. This connection must be fit for purpose and compatible with the approved PCS.

Req ID	Technical Requirements
3.1.1	PAE must connect to and interact with the Pre-commitment System.
3.1.2	PAE must meet the requirements of the Act, Regulations and Standards.
3.1.3	PAE must not impede or affect the integrity or conduct of gaming and monitoring.
3.1.4	PAE must function in the manner in which it is designed and programmed to function

4 Regulatory requirements

This chapter sets out the regulatory requirements for Player Account Equipment that must be followed in Victoria.

4.1 General

Req ID	Technical Requirements
4.1.1	A variation to a gaming machine type must be approved by the Commission for PAE to be installed on or in a gaming machine. This approval must be obtained prior to the PAE being installed on or in a gaming machine.
4.1.2	Installation of PAE at the gaming machine must meet the requirements set down in section 3.4.5 (c)(ia) and section 3.5.5 of the Act or meet requirements set down in the <i>Casino Control Act</i> .
4.1.3	PAE installed on or in a gaming machine must be certified, in a form approved by the Commission that the equipment is functioning in the manner in which it is designed and programmed to function to meet the conditions of section 3.8A.7(2) of the Act.

4.2 PAE requirements

The intent of this section is to describe the equipment requirements for PAE. The technical minimum specifications for each component are detailed in *Appendix A and Appendix D*.

In accordance with Section 3.5.36D (2)(c) of the Act if an approved venue is operating a loyalty scheme then all PAE must be used for the purposes of the pre-commitment scheme and the loyalty scheme.

4.2.1 Kiosk

Req ID	Technical Requirements
4.2.1.1	The kiosk must be able to be secured to a fixed location.
4.2.1.2	The kiosk may be wall mounted, freestanding, or countertop mounted
4.2.1.3	The kiosk must have a card reader integrated into the configuration, which interacts with the pre-commitment system website.
4.2.1.4	The kiosk must provide controlled access to the pre-commitment public kiosk website via a graphical user interface that restricts players and members of the general public's access to the menu options available only within the graphical user interface. Administrative access must not be accessible to players or members of the general public.
4.2.1.5	The kiosk must comply with the Pre-Commitment Kiosk implementation style guide, as attached as Appendix E.

4.2.2 Keypad

Req ID	Technical Requirements
4.2.2.1	The keypad must be suitable for entry of a numeric PIN.
4.2.2.2	The keypad must be either a physical (device) or a display that supports a virtual keypad.
4.2.2.3	The keypad must interact with the pre-commitment system website.

4.2.3 Card encoder and or reader

Req ID	Technical Requirements
4.2.3.1	The card reader and or encoder must interact with the pre-commitment website.
4.2.3.2	The card reader and/or encoder must have the capability to read and/or write to at least track 2 of a magnetic stripe card for the purposes of pre-commitment.
4.2.3.3	The card encoder must encode data on player cards that complies with ISO/IEC 7811.
4.2.3.4	The encoder must be capable of writing up to and including at least position 22 of Track 2.
	For further details refer to Appendix B – Player Card Pre-commitment Configuration
4.2.3.5	Positions 12-20 of Track 2 of the magnetic stripe card must be used for pre-commitment scheme player's unique identifier.
	<u>Note</u> : Positions 1-11 of Track 2 of the magnetic stripe card may be used for identifiers relevant to other Ancillary Service Systems, e.g. loyalty schemes.
	For further details refer to Appendix B – Player Card Pre-commitment Configuration

4.2.3.A Player cards (encoded)

Req ID	Technical Requirements
4.2.3.A.1	The pre-commitment registered player's unique identification number must be encoded on the magnetic stripe card.
	<u>Note:</u> The magnetic stripe card may also be encoded to contain the membership identifier of a player participating in a loyalty scheme.
4.2.3.A.2	If a player is registered for pre-commitment and participates in a loyalty scheme then it is mandatory that the two identifiers are encoded to co-exist on the same magnetic stripe card.
4.2.3.A.4	The magnetic stripe on the card, at a minimum, must support low coercivity as defined in ISO/IEC 7811.
4.2.3.A.5	The unique identification number must be encoded as numeric ASCII characters. For further details refer to Appendix B – Player Card Pre-commitment Configuration

4.2.4 The PAE to be located in each gaming machine includes:

4.2.4.A Card reader

 4.2.4.A.1 The card reader must be capable of insertion and reading of an encoded magnetic stripe card. 4.2.4.A.2 The gaming machine card reader must be connected either directly to the monitoring Slot Machine Interface Board (SMIB) or via an ancillary service interface board that is connected directly to the monitoring SMIB. 4.2.4.A.3 The gaming machine card reader must be capable of reading up to and including position 22 of Track 2 of the encoded card. 4.2.4.A.4 The gaming machine card reader must interact with the pre-commitment system. 	Req ID	Technical Requirements
 4.2.4.A.2 The gaming machine card reader must be connected either directly to the monitoring Slot Machine Interface Board (SMIB) or via an ancillary service interface board that is connected directly to the monitoring SMIB. 4.2.4.A.3 The gaming machine card reader must be capable of reading up to and including position 22 of Track 2 of the encoded card. 4.2.4.A.4 The gaming machine card reader must interact with the pre-commitment system. 	4.2.4.A.1	The card reader must be capable of insertion and reading of an encoded magnetic stripe card.
 4.2.4.A.3 The gaming machine card reader must be capable of reading up to and including position 22 of Track 2 of the encoded card. 4.2.4.A.4 The gaming machine card reader must interact with the pre-commitment system. 	4.2.4.A.2	The gaming machine card reader must be connected either directly to the monitoring Slot Machine Interface Board (SMIB) or via an ancillary service interface board that is connected directly to the monitoring SMIB.
4.2.4.A.4 The gaming machine card reader must interact with the pre-commitment system.	4.2.4.A.3	The gaming machine card reader must be capable of reading up to and including position 22 of Track 2 of the encoded card.
	4.2.4.A.4	The gaming machine card reader must interact with the pre-commitment system.

For further details refer to Appendix A – Minimum specifications for PAE and Appendix B – Player Card Pre-Commitment Configuration

4.2.4.B Interactive display

Req ID	Technical Requirements
4.2.4.B.1	The interactive display must be capable of displaying Half Video Graphics Array (HVGA) resolution video images, and capturing player interaction by touch.
4.2.4.B.2	The interactive display must either be directly connected to the Monitoring SMIB for both touch interactivity and graphics display delivery or via an ancillary service interface board that is connected directly to the Monitoring SMIB.
4.2.4.B.3	The interactive display must interact with the pre-commitment system. Where the interactive display is shared with other ancillary services such as loyalty, and a player has an active pre-commitment session, the ancillary service must provide a button on the interactive display to allow a player to return to the pre-commitment system on demand.
4.2.4.B.4	Where the interactive display is used for other purposes than pre-commitment, pre- commitment information and messages must be displayed without delay.
4.2.4.B.5	Where the interactive display is used for other purposes than pre-commitment, pre- commitment information or messages must not be interrupted or overwritten by other ancillary services.
	For further details refer to Appendix A – Minimum specifications for PAE

4.2.5 PAE infrastructure sharing and security

Req ID	Technical Requirements
4.2.5.1	PAE configurations must enable the sharing of infrastructure between pre-commitment and loyalty scheme(s). See section 3.5.36D of the Act.
	<u>Note</u> : Infrastructure includes but is not limited to interactive display screen, card readers/encoders and kiosks.
4.2.5.2	The card reader/encoder and the keypad must be able to facilitate manual or automatic entry of a unique identification number, and, where PAE is shared, other numbers, e.g. a Loyalty ID number, for the purpose of using that data to encode a magnetic stripe card.
4.2.5.3	Pre-commitment data must pass through player account equipment in a secure manner. Pre-commitment data must not be stored or modified for any purpose other than pre-commitment

4.2.6 **PAE** interface certification

In accordance with section 3.8A.7 the Act, the functional integrity of PAE must be certified by a technician and in accordance with section 3.8A.12 of the Act, the operator must ensure ongoing functional integrity.

Req ID	Technical Requirements
4.2.6.1	PAE must connect to, be compatible with and interact with the pre-commitment system.
4.2.6.2	PAE installed in a venue must function in the manner in which it is designed and programmed to function.

For further details, refer to Appendix C – Certification & Approval Process for PAE

5 Equipment Support and Maintenance

This chapter sets out the hardware support requirements for PAE that must be followed for operations in Victoria.

5.1 Maintenance

Req ID	Technical Requirements
5.1.1	Maintenance and the issuance of certification of PAE installed on or in a gaming machine must be conducted by a technician who holds a gaming industry employee's licence that is contracted by the venue operator, or, for PAE located within the Casino, maintenance and the issuance of certification must be conducted by persons holding a licence issued under Part 4 of the <i>Casino Control Act</i> .
5.1.2	Maintenance of PAE must be carried out in such a way that it does not contravene the approval for gaming machines, monitoring system or pre-commitment system.
5.1.3	Maintenance or repair of PAE fitted to approved gaming machines must be undertaken using replacement parts that conform to the Commission approval(s).
5.1.4	 Hardware maintenance of equipment must not involve: Testing and fault diagnosis requiring the cutting, drilling or addition of electronic circuitry; Thermal overstressing of components; or Removal or insertion of components while power is applied to the equipment, unless the equipment has been specifically designed to withstand such actions and then only by following the appropriate procedures laid down by the manufacturers.
5.1.5	 All hardware maintenance must follow industry best-practice with respect to protecting the equipment from static discharge and where appropriate, the following shall be adhered to: All components and assemblies must be stored and transported in anti-static packaging at all times; No components or assemblies are to be touched unless the technician is earthed via a wrist strap or other earthing device; and Maintenance work-areas must be earthed and fitted with earthed floor mats, earthed bench mats and wrist strap earth points

6 Approval and Certification Requirements

This chapter sets out the Commission's requirements for approval, certification and installation in Victoria. It applies to the supply and installation of Player Account Equipment.

6.1 Approvals and authorisation

In accordance with Sections 3.8A.7 of the Act the functional integrity of PAE at the gaming machine must be certified. The following are the Commissions requirements relating to installation, certification and, where necessary, approval of the PAE.

In approving a variation to a gaming machine type for the installation of player account equipment, the Commission may have regard to a recommendation from a Tester.

Req ID	Technical Requirements
6.1.1	Installation of any PAE on an approved gaming machine must be carried out by holders of the gaming industry employees licence that are:
	 employed by an entity on the Roll of Manufacturers, Suppliers and Testers, and
	contracted by the Venue Operator;
	or
	 hold a licence issued under Part 4 of the Casino Control Act.
6.1.2	For PAE at the gaming machines, all necessary approvals for gaming machine variations must be obtained as required under section 3.5.5 of the Act.
	Note: Submissions to this effect should be made in the manner required from time to time by the Commission
6.1.3	A Tester must assess and provide a recommendation of the PAE to be installed on or in a gaming machine, including any cabling, brackets and fittings prior to any application for a variation to a gaming machine type to the Commission.
	<u>Note</u> : A Tester is not required to test the installation of PAE on every machine, but they must test a sample of all PAE and its related components for every EGM type that it is intended for.

The approval/authorisation process for PAE is detailed at Appendix C – Approval Process for PAE.

7 Document Information

7.1 Document details

Criteria	Details
Document title:	Victorian Player Account Equipment Technical Requirements Document
Document owner:	Victorian Commission for Gambling & Liquor Regulation
Document author:	Pre-commitment Implementation Project, OLGR, Department of Justice & Regulation

7.2 Version control

Version	Date Description Author						
V1.0	December 2015	Public release	OLGR, Department of Justice				
V1.1	June 2015	Public release	OLGR, Department of Justice & Regulation				
V1.2	May 2016	Public release – for comment	OLGR, Department of Justice & Regulation				
V2.0 draft	July 2016	Final for approval	OLGR, Department of Justice & Regulation				
V2.0	December 2016	For publication post approval	OLGR, Department of Justice & Regulation / VCGLR				

7.3 Approvals

Name	Position	Function
Commission	The Commission	Approve

Appendix A – Minimum specifications for PAE

Player Account	Equipment	Technical Specifications	Power Supply	Security
Gaming Machine	Card reader	A reader capable of reading magnetic stripe cards with an encoded Track 2.	SMIB (via USB only) or a power supply that is not sourced from	Access to internal components must be
		Reader must be capable of reading magnetic stripe cards with low coercivity.	monitoring equipment or gaming equipment power supply. (N/A for Crown Casino)	restricted and monitored.
		Reader is to be capable of reading at least up to position 22 of Track 2.		
		The reader must at least support commands for:		
		 removal and insertion of a card 		
		be able to read and output track data		
	Interactive display	 A touch screen graphic display capable of displaying colour images and textual content. Display may be: side-mounted and facing the front of the EGM mounted within the front of the EGM picture-in-picture game screen overlay with touch screen capability. Display is to be capable of: displaying: 	(N/A for Crown Casino) *Note: Power may be sourced from the monitoring SMIB power supply in a manner approved by the Monitoring Licensee (Contact Monitoring Licensee for approved power sourcing methods)	Access to internal components must be restricted and monitored.
		 pre-commitment messages in a portrait orientation which: 		
	Display is to be capable of: • displaying: • pre-commitment messages in a portrait orientation which: • must be at least 54mm wide and 144mm high and • must have a minimum must have a minimum			
		 must have a minimum resolution 150 pixels (wide) x 400 pixels (high) 		

Player Account	Equipment	Technical Specifications	Power Supply	Security
		or		
		 pre-commitment messages that are displayed in a landscape orientation which: 		
		 must be a width of no less than 95mm or a height of no less than 54mm 		
		 must have a resolution of 267 pixels (wide) x 150 pixels (high) 		
		 a cable(s) to facilitate connection to the Monitoring SMIB: 		
		• for touch interactivity, e.g. USB;		
		and		
		• for graphics display, e.g. VGA.		
		All displays must present pre-commitment messages, menus, buttons and labels in a clearly visible and legible manner, without distortion and as presented by the PCS.		
		All pre-commitment displayed messages, menus, buttons and labels must be clearly visible and legible by a person sitting at and standing in front of the gaming machine.		
		Touch screens must be accurate so that user's actions are interpreted correctly.		
Kiosk	General	Computer device secured within a cabinet (kiosk) that may be:	Venue power	The computer device component within the
		• Wall mounted; or,		inaccessible to the
		• Freestanding; or,		general public.
		Desktop mounted		Administrative access is restricted to authorised

Player Account	Equipment	Technical Specifications	Power Supply	Security
				support staff only.
		A kiosk must be fitted with:		Pre-commitment data
		Keypad entry facility (physical or virtual)		secure manner. Pre-
		Keyboard entry facility (physical or virtual)		commitment data must
		Connection to the internet.		for any purpose other
		Controlled website access using a restricted user interface or "shell" configuration.		Security support staff only. Pre-commitment data must pass through in a secure manner. Pre- commitment data must not be stored or modified for any purpose other than for the pre- commitment scheme.
	Display	The display must be of dimensions capable of displaying the pre-commitment website homepage in a navigable manner.	Kiosk or venue power	
		The display resolution must be at a minimum of 1024 pixels x 768 pixels		
		Touch screens must be accurate so that user's actions are interpreted correctly.		
		Must clearly display and provide access to the pre-commitment system via a button on the "home screen" or "menu" page.		
	Card reader	Magnetic stripe card reader (swipe or insertion)	Kiosk	
		Must be capable of reading a magnetic stripe cards with low coercivity		
		Must be capable of reading at least to position 22 of Track 2 on a player card		
		Must read cards that are consistent to ISO/IEC 7811 standards.		
	Style guide	Must comply with the Pre-Commitment Kiosk implementation style guide. Refer to Appendix E.	Not Applicable	
Card encoder/ reader and keypad	Card encoder / reader	A card encoding/reading device that is configurable to interface with the pre-commitment system website using either manual or automated data entry.	Venue	
		Capable of writing to at least position 22 of Track		

Player Account	Equipment	Technical Specifications	Power Supply	Security
		2 on a magnetic stripe card.		
		(see Appendix B)		
		Must be able to read and write to a magnetic stripe card with low coercivity.		
		Must encode cards consistent to ISO/IEC 7811 standards.		
		Must be consistent with the encoding convention detailed in Appendix B of this document.		
	Keypad	A keypad that is a physical or virtual device that enables the secure entry of a PIN	Venue	
Card	Magnetic stripe card	Magnetic stripe card able to be encoded consistent with the pre-commitment scheme personal identifier.	N/A	
		The magnetic stripe needs to support at least low coercivity as specified in the ISO/IEC 7811 standard		
		Must comply with the card size of ID-1 format as specified in ISO/IEC 7810 standard		

9 Appendix B – Player card configuration

Card Encoding Positions on Track 2

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22

Assignment of Track 2 Positions for Combined ID's and Pre-commitment Only ID

ss	Loyalty ID				Pre-commitment ID					ES	LRC										
_oyalty a	and Pre	-com	mitme	ent ID	's Co	mbine	ed wit	h Enc	Sen	tinel a	and Ll	RC Fo	ollowi	ng the	e Last	t Pre-	comn	nitme	nt ID	Chara	acter
; 0	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	?	LRC
Pre-com	mitmer	nt ID C	Dnly.	All Lo	oyalty	Posit	ions I	Must	be Ze	ero'd											
; 0	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	7	8	9	?	LRC
Assignm	ent of	Frack	2 Pos	sitions	s for L	.oyalt	y Only	y													
SS	Loyalty ID ES LRC						(Lo No	oyalty ote: C	lD da harac	ata is ter in	optio Posit	nal) tion 1	must	be set to							
_oyalty (Only wi	th End	d Sen	tinel a	and L	RC F	ollowi	ng th	e Las	t Loya	alty IC) Cha	racte	Ca	pubs asino	and o loyalt	clubs y ID's	and 1	lorg	greate	r for Melb
; 0	1	2	3	4	5	6	7	8	9	10	?	LRO	2								

Control Characters

End Sentinel

(Hex 0F)?



ES

Start Sentinel (Hex 0B);



Check Character

Loyalty ID and Pre-commitment ID data must be written to positions 0 - 22 in ANSI/ISO BCD 5 bit format and comply with ISO 7811 standard.

10 Appendix C – Approval process for PAE

Player Account Equ	uipment	Technical Requirements	Supplier	ATF recommendation	VCGLR approval	Installer	
Gaming Machine	Card reader	Minimum specifications as specified in the Player Account Equipment Technical Requirements (PAETR)	Anyone	Requires ATF recommendation for approval of variation to approved gaming machines (tested for compliance with Regulations and Commission Standards). ATF is to certify that devices are consistent with PAETR.	Approval for variation to a gaming machine for each machine type is required. Approval number will be issued by VCGLR.	Installation must be performed by a technician who holds a gaming industry employees licence, or, holds the appropriate license and is employed by Crown Casino. Licensed technician to certify the equipment has been installed, interacts with the PCS, and meets its functional requirements.	
Kiosk	Display Card reader	Minimum specifications as specified in the Player Account Equipment Technical Requirements (PAETR)	Anyone	Not required	VCGLR approval is not required	Licensed technician to certify PAE	
Service Point	Card encoder/reader	Minimum aposifications of	Δηγορε	-	certification to be	PCS and meets its	
Workstation		specified in the Player Account Equipment Technical Requirements (PAETR)	Anyone		performed only.	functional requirements.	

Player Account Equ	uipment	Technical Requirements	Supplier	ATF recommendation	VCGLR approval	Installer
	Keypad	Minimum specifications as specified in the Player Account Equipment Technical Requirements (PAETR)	Anyone			
Card	Magnetic stripe card	Minimum specifications as specified in the Player Account Equipment Technical Requirements (PAETR)	Anyone		N/A	N/A

11 Appendix D – PAE interface specification

As attached as version 1.5.

12 Appendix E – Kiosk implementation – Style guide

As attached as version 0.2.



Victorian Pre-Commitment System **PAE Interface Specification** Version 1.5 External

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SD Template v1.4

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1 Introduction

1.1 Document Purpose

The Victorian Government is committed to implementing a voluntary precommitment scheme across Victoria commencing on December 1, 2015.

Intralot Gaming Services (IGS), the licensed Monitor, is undertaking to provide precommitment services for the Victorian Government.

This document details the technical specification for how Player Account Equipment (PAE) can interface with the IGS Pre-Commitment System (PCS) and also describes the process for suppliers to submit their PAE components for inclusion on the Compatible PAE List.

Appendix G contains details of a range of PAE components that have undergone preliminary testing for compatibility with the Pre-Commitment System.

As application is made for further components to be added to the Compatible PAE List, the details will be added to the list and amendments made to provide information as to the progress of testing. The Office of Liquor Gaming and Racing will publish the details of the Compatible PAE list.

1.2 Document Scope

This document covers the following:

- Technical specification for connecting the Intralot Monitoring/PCS SMIB to the Player Interface Module (PIM) components in EGMs not participating in a loyalty program;
- Technical specification for interfacing the Player Kiosk and Service Point PC card reader/encoder components with the PCS Web portal, for both loyalty and non-loyalty venues;
- Card reading and encoding functions;
- Process for suppliers to submit other components for inclusion on the Compatible PAE List;
- Details of the Monitoring/PCS SMIB USB port and power specifications for connecting the PAE components installed in EGMs.

1.3 Out of Scope

This document excludes the following:

 Technical specifications for connecting the Intralot Monitoring/PCS SMIB to PIM devices installed on an EGM that is participating in a loyalty program. Loyalty suppliers should contact IGS for the technical specification for the mandatory connection of the loyalty PIM equipment to the Intralot Monitoring/SMIB for pre-commitment purposes.

1.4 Glossary

Term or	Description					
Abbreviation						
ATF	Accredited Testing Facility. A tester listed on the Roll of Manufacturers, Suppliers and Testers.					
Certified Tester A tester who has attained ISTQB Certified Tester Advanced (CTAL) accreditation and/or is a member of NATA (Na Association of Testing Authorities, Australia), and/or is a test the Roll of Manufacturers, Suppliers and Testers.						
Compatible PAE List	The list of PAE components that have been certified to meet the Victorian PAE Technical Requirements (R3) and that also meet PCS integration requirements. The list is maintained by IGS in conjunction with OLGR.					
IE	Internet Explorer					
OS	Operating System					
PAE	Player Account Equipment					
PCS	Pre-Commitment System					
PIM	Player Interface Module					
Player Service Point	A location in the venue where the PAE encoder/card reader and keypad is located.					
Service Point PC	A PC that connects the card encoder/reader and keypad to the PCS Web portal application. It can be a new or an existing venue PC.					
VCGLR	Victorian Commission for Gambling and Liquor Regulation.					

YourPlay	This is the brand n	ame choser	by the gover	government for the Victorian			
	Pre-Commitment	System.	References	to	"YourPlay"	are	
	interchangeable wi						

Table 1: List of Glossary

1.5 Referenced Documents

Referenc	Document Title	Version
es		
R1	AUS/NZ Gaming Machine National Standards	V10.0
R2	Victorian Appendix to the AUS/NZ Gaming Machine National Standards	V10.0
R3	Victorian Player Account Equipment Technical Requirements (December 2014) ¹	
R4	Kiosk Implementation Style Guide	V1.0

Table 2: Referenced Documents

¹Available from the VCGLR website

http://www.vcglr.vic.gov.au/home/laws+and+regulations/policy/technical+standards/

2 EGM PAE Components

2.1 Overview

This section describes the technical specification for connecting the Intralot Monitoring/PCS SMIB to the Player Interface Module (PIM) components in an EGM not participating in a loyalty program.

2.2 Player Interface Module (PIM)

The Player Interface Module (PIM) components that must be installed and have satisfied a pre-commissioning functional test on each EGM include the following components:

- Magnetic card reader,
- Display monitor,
- Touchscreen functioning in association with the display monitor,
- Mounting accessories and cabling harness.

2.3 Connections

The PIM components are connected directly to the Intralot Monitoring/PCS SMIB. The interconnection is shown in the following diagram:





2.4 SMIB External Components Connection

External Components	Interface	
Interactive Display Video Screen	VGA port	
	The VGA cable to be used for the connection of the PAE touch monitor onto the monitoring SMIB must have the following pins disconnected as these signals are not supported by the monitoring SMIB: Pin 12 – DDC2B SDA	
	Pin 15 – I2C SCL	
Touch Screen	USB port	
Magnetic Card Reader	USB port	

The connection types are listed in the table below:

Table 3 : SMIB External Components Connection

2.5 SMIB Power Specifications

The details of the SMIB power specifications are provided in Appendix F.

2.6 Digital Display Panels

The display component of the PIM is an integrated module that is connected via a standard VGA port to the Monitoring/PCS SMIB.

The integrated VGA controller provides the interfacing to the digital LCD panel as well as the image adjustments for brightness and contrast. In addition it provides an interface between the analogue signal timing and the digital panel timing.

The PCS menu screens are designed to be displayed on colour LCD panels that are 6.2'' (640 x 240 pixel resolution) in a landscape orientation. Details of the digital display panel components that have undergone preliminary testing for compatibility with the PCS are shown in Appendix G.

Other components will be added provided that they comply with the following requirements and then follow the process described in Section 5.

2.6.1 Kernel Timings

The current SMIB OS Kernel caters for two display timings. Components with alternative display timings may require changes to the SMIB OS Kernel.

LINUX name	Display option 1	Display option 2
Refresh	60	60
Xres	640	640
Hres	240	240
Pixclock	40000	44543
Left_margin	138	300
Right_margin	22	300
Upper_margin	208	22
Lower_margin	67	25
hsync_len	6	50
vsync_len	2	3
Sync	FB_SYNC_HOR_HIGH_ACT	FB_SYNC_CLK_LAT_FALL
	FB_SYNC_VERT_HIGH_ACT	
Vmode	FB_VMODE_NONINTERLACED	FB_VMODE_NONINTERLACED

See Figure 2 below for the current timing resolutions:

Figure 2 : Kernel Timings for the Integrated Panels

2.6.2 Resolution

Only Digital Display Panel models of 640 x 240 pixel resolution (landscape) that meet the display panel requirements in the PAE Technical Requirements (R3) will be considered for PCS integration as described below:

2.6.2.1 Same Timing/Resolution

Digital Display Panel models of 640 x 240 pixel resolution (landscape) that follow the same timing signal/resolution as those shown in Figure 2 will be able to be integrated with PCS subject to successful verification and interoperability testing as described in Section 5.
2.6.2.2 Different Timing/Resolution (SMIB Kernel Change Required)

Digital Display Panel models of 640 x 240 pixel resolution (landscape) with different timing signal/resolutions to those shown in Figure 2 will only be considered on the basis of their inclusion in a future upgrade of the kernel as described in Section 5.

This will need discussion with IGS as any SMIB kernel change will require an extensive cycle of testing to verify that the monitoring application has not been affected and there may be a significant delay before the next scheduled kernel upgrade.

2.7 Touchscreens

Touchscreens for the interactive display can be of any of the known technologies, such as resistive, capacitive, SAW (surface acoustic wave), provided that they can be interfaced using a touchscreen controller compatible with the Linux operating system used by the Monitoring SMIB.

2.8 Touchscreen Controllers

Details of the touchscreen controller components that have undergone preliminary testing for compatibility with the PCS are shown in Appendix G.

Other touchscreen controller components will be able to be integrated provided that they comply with the following requirements and then follow the process described in Section 5.

2.8.1 Touchscreen Controller Requirements

- Compliant with the Victorian Pre-commitment Player Account Equipment Technical Requirements (R3);
- Able to work on Linux Kernel version 2.6.35.3;
- Must be compliant with the Linux input subsystem and its event interface library (TSLIB) and export via USB any touch to the input module in the form of events and pass it via TSLIB (raw data) to the application;
- Compliant with non X environment;
- As PCS requires high availability, the touchscreen driver must be robustly

connected to the system and be able to re-connect quickly and transparently in case of disconnections. For this reason, the touch controller driver must be a Kernel driver with driver source code available for IGS compilation and customization purposes;

- The compiled driver must be able to be downloaded from the CMCS Host remotely;
- Connection via standard USB interface to the Monitoring/PCS SMIB must be compliant with USB version 2.0 certified Type A connection;
- If powered via USB it should not exceed the maximum power supply of 500mA via the SMIB USB port. If the component requires a supply above 500 mA, an alternative power supply must be sourced;
- Proposed component(s)/model(s) should not have any end of life issues and will continue to be supported by the manufacturer.

2.8.2 No SMIB Kernel Change

Touchscreen controllers that do not require any changes to the SMIB OS Kernel will be able to be integrated, subject to successful verification and interoperability testing.

2.8.3 SMIB Kernel Change Required

- Touchscreen controllers that require a change to the SMIB Linux OS kernel will only be considered on the basis of their inclusion in a future upgrade of the kernel;
- This will need discussion with IGS as any SMIB kernel change will require an extensive cycle of tests to verify that the monitoring application has not been affected and there may be a significant delay before the next scheduled kernel upgrade.

2.9 Magnetic Card Readers

Details of the magnetic card reader components that have undergone preliminary testing for compatibility with the PCS are shown in Appendix G.

Other magnetic card reader components will be able to be integrated provided that they comply with the following requirements and then follow the process described in Section 5.

2.9.1 Magnetic Card Reader Requirements

- The Magnetic Card Reader must comply with the Victorian Pre-commitment Player Account Equipment Technical requirements (R3);
- Must work on Linux OS Kernel version 2.6.35.3;
- Must have a USB-to-Serial (USB CDC) type of connection. USB HID devices can also be integrated but will need to be examined per case;
- The communication interface protocol must be in compliance with both the Linux OS and the PIM Card Reader API described in Appendix B;
- Electrical connection should be via a USB port compliant with USB version 2.0 certified Type A connection;
- If powered via USB it should not exceed the maximum power supply of 500mA via the SMIB USB port. If the component requires a supply above 500 mA, an alternative power supply must be sourced;
- Proposed component(s)/model(s) should not have any end of life issues and will continue to be supported by the manufacturer.

2.9.2 No SMIB Software Change

Magnetic Card Readers that do not require any changes to the SMIB software will be able to be integrated with PCS, subject to successful verification and interoperability testing.

2.9.3 SMIB Software Change Required

- If a driver and/or a library for implementing an API are required, the source code must be made available to IGS;
- The compiled driver/library must be able to be downloaded from the CMCS Host remotely;
- The component will only be considered on the basis of inclusion in a future upgrade of the SMIB software.

3 Player Service Point PAE Components

3.1 Overview

The Player Service Point PAE comprises a Keypad and Card Reader/Encoder connected to a Service Point PC.

The Service Point PC allows the card reader/encoder to connect to the Pre-Commitment System via the PCS Web portal application. The Card Reader/Encoder may be a single component or a separate card reader and card encoder.

The Service Point PC must meet the following minimum requirements:

- Operating System: Windows XP (SP 3), Windows 7 and Windows 8;
- Browser: Google Chrome and IE
 - For Windows 7 and Windows 8, the minimum supported browser is IE11 or Google Chrome. The Google Chrome browser is recommended for optimal results;
 - For Windows XP the supported browser is Google Chrome.

Intralot does not guarantee results with other OS/browser combinations.

3.2 Venue Portal Security

The communication between the Service Point PC and the PCS Venue Portal (<u>http://yourplay.igsmonitor.com.au/vp</u>) uses the standard HTTP protocol and secured using VPN. The Service Point PC Web API commands use the HTTP protocol.

3.3 Player Service Point Keypad/ Pinpad

The Player Service Point must have a Keypad/ Pinpad connected to the Service Point PC. This is used to allow players to key in their PCS PINs.

The keypad must be a numeric keypad with a USB connection that complies with USB keyboard input devices standard.

3.4 Card Reader/Encoder

The Service Point PC must have card reader and card encoder capabilities. This may be provided by either separate card reader and card encoder components or a combined card reader/card encoder component.

The card reader/encoder is used by venue staff to read or encode the PCS ID card for the player.

The card can be either a dedicated PCS ID card or a dual card for PCS and loyalty.

- The card encoder may be a combined reader/encoder component or a printer/encoder component that can print on the card at the same time that it encodes the magnetic stripe. The card encoder is not required to print on the card;
- The card encoder allows the encoding of the player's card according to the standards set by the PAE Technical Requirements (R3);
- The card encoder obtains the player's PCS ID from the PCS Web Portal application for encoding on the PCS card;
- The card reader obtains the player's PCS ID from the card and passes it to the PCS Web portal application.

Details of the Service Point PC Card Readers/Encoders that have undergone preliminary testing for compatibility with the PCS are shown in Appendix G. Other card reader/encoder components may be able to be integrated provided that they are verified through the process described in Section 6.

3.5 Non-Loyalty Venue Card Encoding Function

For non-loyalty venues, the Venue operator will be able to encode a PCS only card through the PCS Web Portal encoding function using the integrated card encoder devices.

The non-loyalty encoder application will not cater for capturing a Loyalty ID or encoding a dual card. Only the PCS ID is encoded on the PCS card and the loyalty ID is padded with zeros.

3.6 Loyalty Venue Card Encoder Application

The Loyalty supplier will need to upgrade the loyalty card encoder application to perform the following functions on the Service Point PC:

- Encode a new card with a PCS ID only i.e. without a loyalty ID;
- Encode a new dual access card (PCS and Loyalty);
- Encode a PCS ID on an existing loyalty card;
- Encode a new loyalty card without a PCS ID²;
- Replace a lost card;
- Replace/Refresh a damaged card.

The venue staff can use copy/paste or manual entry methods to acquire the PCS ID from the PCS Web portal (Strongly not recommended by the State due to potential errors).

² The loyalty card encoder application must follow the ANSI/ISO 7811 standard to append the ES (End Sentinel) and the LRC (Longitudinal redundancy check) after the 11 digit Loyalty ID (for a Loyalty only card), and after the 9 digit PCS ID for other cards

4 Venue Kiosk

4.1 Overview

The Kiosk is a self-service terminal with Internet access and is located inside each venue. The Kiosk allows players to access the PCS Web portal and to login to their account using their PCS Card/PIN or their username/password.

The Kiosk terminals used for PCS may be:

- Pre-commitment only Kiosks or
- Combined Loyalty and Pre-commitment Kiosks.

A Kiosk printer is optional and PCS does not support printing at the venue Kiosk.

Supported Kiosk OS/Browser combinations:

- Operating system: Windows XP³ (SP3), Windows 7, Windows 8;
- Browsers: Google Chrome and IE
 - For Windows 7 and Windows 8, the minimum supported browser is IE11 or Google Chrome;
 - The Google Chrome browser is recommended for optimal results across all Windows operating systems.

Intralot does not guarantee results with other OS/browser combinations.⁴

4.2 Kiosk Browser Security

National and Victorian security standards dictate that the communication of authentication details between the Kiosk browser and the PCS portal must be secure. As a result, the Kiosk PCS Web Site must use HTTPS for authentication details. IGS has developed a solution that allows the Kiosks Web API commands to be sent in

³ XP with IE8 is **strongly** not recommended by Intralot.

⁴ There may be compatibility problems with other operating system and/or web browser combinations that are not specified here. As such Intralot cannot guarantee the correct operation of the precommitment Kiosk website on non-specified operating system and/or web browser combinations.

HTTP or HTTPS mode, depending on the browser used. See Section 10.3 for more information.

4.3 Kiosk Card Reader

The Kiosk Card reader is a magstripe card reader able to read Track 2 of any ANSI/ISO7810/11 card. The card reader can be either a swipe, half or full insert type provided that it can read from character 1 up to and including 20 of Track2.

The 20 characters do not include the control characters listed below which are in addition to the 20 characters:

- Start Sentinel, (SS)
- End Sentinel, (ES)
- LRC

Details of the Kiosk card readers that have undergone preliminary testing for compatibility with the PCS are shown in Appendix G. Other Kiosk card reader components may be able to be integrated provided that they are verified through the process described in Section 6.

4.4 Kiosk Reader Application

Kiosk suppliers can interface the Kiosk with the PCS Web Portal by either implementing the Intralot specified WebAPI (Appendix D) or the Magnetic Card API (Appendix E) in the Kiosk shell to allow the player's card to be read at the Kiosk. Refer to Appendix C for guidance on selecting the appropriate API.

The WebAPI allows the PCS and/or loyalty application to poll for the card reader status and card ID for the last card inserted/swiped. This will support asynchronous queries to the application coming from both loyalty and PCS applications in response to the card insertion/swiping.

5 Process for Including PIM Components on the Compatible PAE List

The process for suppliers to nominate PIM components that meet the specifications in Section 2 for inclusion on the Compatible PAE List is described below:

5.1 All PIM Components

- The component must comply with the Victorian Pre-commitment Player Account Equipment Technical Requirements (R3) in all respects and must be consistent with this interface specification;
- The supplier must complete the details in the "Magnetic Card Reader and Interface Display Specification Form" included in Appendix A and submit the form to IGS;
- IGS will perform an initial investigation to ascertain whether the component can be integrated without any SMIB kernel changes.

5.2 No SMIB Kernel/Software Changes Required

- 1. The supplier must provide IGS with the component hardware and driver or driver source code for testing.
- 2. IGS will discuss timeframes for interoperability testing and any costs with the supplier and schedule the testing.
- 3. IGS will perform interoperability testing of the component.
- 4. If the testing is satisfactory:
 - IGS will notify the supplier of the testing result;
 - IGS will add the component to the Compatible PAE List;
- 5. If the testing is unsatisfactory:
 - IGS will provide the supplier with details of the testing results and the supplier may decide to apply changes and resubmit for testing.

5.3 SMIB Kernel/Software Changes Required

If changes to the SMIB OS Linux kernel/software are required:

- 1. The supplier will be notified.
- 2. IGS will provide the supplier with details of the SMIB kernel/software upgrade timetable.
- 3. IGS will discuss timeframes for interoperability testing and any costs with the supplier.
- IGS will recompile the SMIB kernel/software with the source code provided by the supplier in accordance with the planned SMIB kernel/software compilation schedule.
- 5. IGS will perform interoperability testing of the component.
- 6. If the testing is satisfactory:
 - IGS will notify the supplier of the testing result;
 - IGS will add the component to the Compatible PAE List;
 - Intralot will arrange ATF testing of the SMIB baseline changes to meet the planned SMIB kernel/software upgrade schedule.
- 7. If the testing is unsatisfactory:
 - IGS will provide the supplier with details of the testing results and the supplier may decide to make changes and resubmit for testing.

6 Process for including non-Loyalty PAE Components on the Compatible PAE List

The process for nominating a Service Point PC card reader/encoder component or Kiosk card reader for inclusion on the Compatible PAE List is described below:

- 1. The component must comply with the Victorian Pre-commitment Player Account Equipment Technical Requirements (R3) in all respects and must be consistent with this interface specification.
- 2. The supplier must implement one of the following methods to interface with the Web portal application:
 - The Intralot specified WebAPI in Appendix D: or
 - The Intralot specified PCS Magnetic Card API in Appendix E to produce a DLL driver to interface with the Web Portal at the ExeApp level.

Refer to Appendix C for guidance on API use.

- 3. The supplier must engage a Certified Tester to perform interoperability testing of the component. (Intralot will provide a link to a PCS testing environment to facilitate this testing at a date to be confirmed).
- 4. If testing is satisfactory, the certified tester will notify the supplier and IGS.
- 5. The component will be included on the Compatible PAE List.

7 End to End Workflows and Message Flow Diagrams

7.1 Player Service Point PC

7.1.1 Workflow Diagram – Encode a Card

The workflow below covers the following scenario:

• To encode a card.



7.1.2 Message Flow Diagram - Venue PC (Read Function)



7.1.3 Message Flow Diagram - Venue PC (Encode Function)



7.1.4 Responsibilities of a Loyalty Provider (Service Point PC)

The Loyalty Provider must:

- Follow the work flow diagrams and the message flow diagrams specified in Section 7.1.1 – 7.1.3;
- Provide the Loyalty application on the Service Point PC which must be able to perform the following encoding functions on the same PC:
 - Encode a Dual access card i.e. Loyalty + PCS;
 - Encode a Pre-commitment only card;
 - Encode a Loyalty only card;
 - Replace a lost card;
 - > Replace/Refresh a damaged card

7.2 End to End Work Flows for the Kiosk

7.2.1 Workflow Diagram- PCS Only Kiosk

The flow below covers the following scenario:

• A member swipes/inserts his card at a Non-Loyalty Kiosk.



7.2.2 Workflow Diagram– Dual Function (Loyalty) Kiosk

The workflow below covers the following scenario:

• A member swipes/inserts his card at a Loyalty Kiosk;



7.2.3 Message Flow Diagram - Venue Kiosk Message Exchange (Login and Logout – Insert Card)⁵



In reply to every CARD_READ_DATA poll, CARD_READ_DATA_RES returns:

- card inside the reader: the PCS ID (field: "data"), and the time of the last insert (field "time").
- no card in reader: a string with 20 zeroes (field: "data"), and the time of the last removal (field "time").

See also section 11.2

 If there has not been any previous card activity, "data" and "time" can be empty strings ("").

⁵ The references to HTTP refer to both HTTP and HTTPS.

7.2.4 Message Flow Diagram - Venue Kiosk Message Exchange (Login and Logout – Swipe Card)⁶



- In reply to every CARD_READ_DATA poll, CARD_READ_DATA_RES returns the PCS ID of the last card that was swiped through the reader (field: "data") and the time of the last swipe (field "time"). See also section 11.2.
- If there has not been any previous card activity, "data" and "time" can be empty strings ("").

⁶ The reference to HTTP refers to both HTTP and HTTPS.

7.2.5 Message Flow Diagram - Venue Kiosk Message Exchange (Toggle Keyboard)⁷



 $^{^{7}\!.}$ The references to http refer to both http and https

7.2.6 Responsibilities of the Kiosk Provider

The Kiosk Script must follow the work flow diagrams and the message flow diagrams specified in Section 7.2.1 – 7.2.5 of this document. The Kiosk provider should also meet the following requirements:

- Ensure that the technician installs a predefined ini file containing the venue id when he installs the Kiosk in the venue;
- Invoke a full screen browser pointing to the PCS URL on kiosk start-up. Use of iFrame is not recommended;
- Parse the predefined ini file containing the Venue ID and pass it as a parameter in the PCS URL, eg (<u>https://yourplay.com.au/web/kiosk/home?venueid=<ID_OF_VENUE>&dual=</u> <u>true</u>&sec=true).
 - The PCS URL security parameter (sec) will differ depending on the browser that is being used. (See Sections 10.3 and 10.4). Ensure that the requirements regarding security and the use of HTTP/HTTPS described in Section 4.2 and Chapter 10 are followed;
 - Implement the Pre-commitment touch screen keyboard as defined in the "Kiosk Implementation Style Guide (R4)";
- Show/Hide the onscreen keyboard via the "Toggle Keyboard" command when requested by the PCS Web Portal. The Kiosk application must be able to show the keyboard upon receiving the next "Toggle Keyboard (show/hide)" command;
 - Disable all OS keyboard shortcut combinations (e.g. Ctrl-Alt-Delete) on the keyboard in order to avoid any player interaction with the OS;
 - 2. Disable the browser option to save passwords.
- For card insert reader kiosks, if a card is not present in the reader, the Kiosk application must return a string of 20 zeroes ("000000000000000000000") as the PCS ID argument when polled by the web portal "Read Card" command;
- Ensure that the Kiosk returns to the Idle screen when one of the following occurs:

- 1. The player logs out of PCS;
- 2. The player session expires (i.e. No Activity Timeout);
- 3. The player removes the card from the card reader or
- 4. No Touch Timeout is enabled
- The use of "no touch timeout" is recommended but is not mandatory. If it is implemented, the Kiosk application must log out the player if the player has logged in;
- Player must be able to swipe/insert the card on the Kiosk main menu and the PCS Kiosk portal. The Kiosk application must ensure that it can detect a card swipe/insert and respond to the CARD_READ_DATA poll with the PCS ID of the card when the PCS Kiosk portal is displayed(see also the diagram in section 7.2.4);
- The kiosk display of "Pre-commitment Services" must not be less prominent than other ancillary services also displayed;
- In case of communication failure, show a meaningful message ("PCS Web site currently unavailable") and offer the ability to attempt to reconnect ("Try again" button).

8 Appendix A - Magnetic Card Reader and Interactive Display Specifications Form

Form instruction

Please refer to the Example/Explanation column for information on how to fill in the form.

- 1. Please cut and paste the component specification table if you intend to support multiple Components of the same type.
- This form does not cover picture in picture technology. The form is for informational purposes only and there is no commitment from the Pre-commitment service provider that it will be able to interface with Components specified in this form or with the ones referenced as example.
- 3. When you have completed this form, send it with any attachments to PAE@igsmonitor.com.au
- 4. For further information regarding this form, please contact Wilson Lo on 03-96733985.

	Component Supplier Details (Must be provided)				
1.	Supplier Name:				
2.	Supplier Contact Name:	Phone:	Mobile:		Email :
3.	Number of components included in this form				
	Display Monitor:	Touch Screen Controller:		Magne	etic Card Reader:

8.1 Display Monitor Specifications

#	Description	Specification	Example / Explanation
1.	Connector Type (s)		VGA (mandatory)
2.	Screen resolution @ refresh rate (list all that apply)		 640x240 @60Hz (native resolution) 640x480 @60Hz
3.	Viewing area size		149 x 54 mm, 6.2" diagonal
4.	LCD panel manufacturer & model		HITACHI TX16D11VM2CQC
5.	Video timing parameters		Provide LCD panel datasheet which

6.	Power and fuse input requirements	 must include parameter values below: Panel resolution (pixels) Pixel clock (Mhz) Horizontal Front porch (pixels) Horizontal back porch (pixels) Vertical Front porch (pixels) Vertical back porch (pixels) Hsync length (pixels) Vsync length (pixels) 12VDC, 1A, Fuse rating 1.5A
7.	Grounding specification	Connected to chassis ground or specify otherwise
8.	Remarks (Optional)	

8.2 Touchscreen Controller Specifications

#	Description	Specification	Example / Explanations
1.	Manufacturer		3M
2.	Connector Type		USB (mandatory)
3.	Touch controller driver		 Must support Embedded Linux (Kernel version 2.6.35.3 or higher) Be compliant with the Linux input subsystem and its event interface (TSLIB). Kernel driver Non X environment
4.	Power input requirements		 5VDC, 100mA USB powered within USB power limits (max 500mA) or state otherwise
5.	Remarks (Optional)		

8.3 Magnetic Card Reader Specifications

#	Description	Specification	Example / Explanations
1.	Manufacturer		PANASONIC
2.	Model Number		ZU-M2242S3R2
3.	Connector Type		USB (mandatory)
4.	Power input requirements		 5VDC, 0.1A USB powered within USB power limit (max 500mA) or state otherwise
5.	Driver type		USB-to-Serial (mandatory)
6.	Driver OS		Must support Embedded Linux OS
			(Kernel version 2.6.35.3 or higher)
7.	API specification		API library must support the functions as
	(Refer to Appendix B)		described in Appendix B.
			Note: Certain functions are optional
			depending on the component. For this reason,
			they have a return error code meaning "Not supported".
8.	Remarks (Optional)		

9 Appendix B – PIM Card Reader API

NR	FUNCTION	DESCRIPTION	INPUT PARAMETERS	OUTPUT PARAMETERS
1	intOpenDevice	Opens the port of	The string of the node	0: Success
	(char * port)	the device (i.e.		10: Port not opened
		/dev/ttyACM0) and		20: Device not found
		initializes the device		30: Write of command failed
				40: Read of reader's reply failed
				50: Command Timeout
2	intCloseDevice()	Closes the port		0: Success
				10: Port cannot be closed
3	intGetDeviceVer	Gets from the device	FWVersion: buffer which is	0: Success
	sion(char*	the F/W version	filled with device's F/W version	10: Port not opened
	constFWVersion)			20: Device not found
				30: Write of command failed
				40: Read of reader's reply failed
				50: Command Timeout
4	intSendCardDire	It sets the direction	direction: one byte which can	0: Success
	ction(int	of the card's read	be one of the following	10: Port not opened
	direction)		1: insertion	20: Device not found
			2: withdrawal	30: Write of command failed
			3: both directions	40: Read of command failed
				50: Command Timeout
5	intGetReaderSta	Get the device	status: returns the status of	0: Success
	tus(int *const	status	the reader	10: Port not opened
	status)		Following statuses should be	20: Device not found
			supported:	30: Write of command failed
			1: Track 1 decode status (0 no	40: Read of command failed
			data, 1 track 1 data exist)	50: Command Timeout
			2: Track 2 decode status (0 no	
			data, 1 track 2 data exist)	
			3: Track 3 decode status (0 no	
			data, 1 track 3 data exist)	
			4: Card present (0 no card	
			present, 1 Card present)	
6	intReaderReset(Resets the device to	9.1	0: Success
)	initial state, clears		10: Port not opened
		all buffers and re-		20: Device not found
		initializes the device		30: Write of command failed



				40: Read of command failed
				50: Command Timeout
7	intReadCardID(i	It reads and returns	CardDataLength: the length of	0: Success
	ntconst*	the Card data from	the CardID string	10: Port not opened
	CardDataLength	the track which has	CardID: string in which card	20: Device not found
	, char const*	been set in	data are filled. The card data	30: Write of command failed
	CardID)	SetTrackSelection	should be read from the track	40: Read of command failed
		function	which is defined by	50: Command Timeout
			SetTrackSelection function. If	
			more than one track is defined	
			the card data should be	
			separated with the character	
			defined in SetTrackSeparator	
			function	
			9.2	
8	intSetDeviceRea	It enables or	reading: can be one of the	0: Success
	ding(int	disables the device's	following:	10: Port not opened
	reading)	reading	1: enable reading	20: Device not found
			0: disable reading	30: Write of command failed
				40: Read of command failed
				50: Command Timeout
9	intSetTrackSelec	Sets the track from	track: bit-oriented hexadecimal	0: Success
	tion(int track)	which the reader will	number of the track to be set	10: Port not opened
	(See Note)	read cards	i.e.	20: Device not found
			30: any track	30: Write of command failed
			31: track 1 only	40: Read of command failed
			32: track 2 only	50: Command Timeout
			33: track 1 and track 2	60: Function Not supported
			34: track 3 only	
			35: track 1 and track 3	
			36: track2 and track 3	
			37: all 3 tracks	
10	intSetTrackSepa	It sets the character	separator: any ASCII character	0: Success
	rator(int	to be used to	which is used to separate the	10: Port not opened
	separator)	separate data	data from different tracks	20: Device not found
	(See Note)	decoded by a		30: Write of command failed
		Multi-track reader.		40: Read of command failed
				50: Command Timeout
				60: Function Not supported



11	intLedControl(int	Sets the device led	Colour: integer which defines	0: Success
	colour)	to specific colour	the colour	10: Port not opened
	(See Note)		1: green	20: Device not found
			2: red	30: Write of command failed
			3: orange	40: Read of command failed
				50: Command Timeout
				60: Function Not supported

Note: Functions 9, 10 and 11 are optional, depending on the device. For this reason, they have an extra return error code (-60)

10 Appendix C – Service Point PC and Kiosk APIs

10.1 Overview

Intralot provides two APIs to allow the Service Point PC PAE and Kiosk PAE to interface with the Pre-commitment Web Portal Application (PCSApp).

PAE suppliers will need to implement one of the following APIs on the Service Point PC and Kiosk depending on their configuration:

- A PCS Magnetic Card API (Appendix E) describing how to interface with the PCS Web Portal at the ExeApp level. ExeApp is a download executable file supplied by Intralot that interfaces the PCSApp with the Intralot integrated Card Encoder/Card reader components or
- A WebAPI describing how to interface with the Pre-commitment Web portal application (Appendix D). This consists of a simple and minimal set of JSON commands that are communicated using the standard HTTP protocol.

10.2 API Selection

The following two configurations allow PAE suppliers to integrate their magnetic card components with PCS:

- (a) by using the Intralot supplied ExeApp and
- (b) without using the ExeApp application.

10.2.1 With ExeApp

This configuration is applicable to PAE suppliers who choose to use the Intralot provided ExeApp application to provide an end-to-end interface between the PCSApp and their unintegrated card reader/encoder component using one of the following methods:

• The PAE supplier will need to provide a DLL driver by implementing Intralot's Magnetic Card API (Appendix E). The Magnetic Card API is used for interfacing the ExeApp with the card reader and card encoder components. Each component has a DLL that drives it and exports the Magnetic Card API

functions through which the ExeApp reads, writes, gets status, etc. for the card component;

 Alternatively, the PAE supplier can implement the WebAPI "client part" (Appendix D) to interface with the ExeApp to access the integrated card reader/encoder. In this case the ExeApp is the HTTP parser that handles the WebAPI messages originating from PAE supplier application (e.g. Loyalty Application "Lapp" in Figure 3).



Figure 3 : PCS Web Portal connection to the Intralot integrated Encoder/Reader components via the ExeApp application

10.2.2 Without ExeApp

This configuration is applicable to PAE suppliers who choose to support their components in their own system, without PCS directly interfacing with the card reader/encoder component and without using the Intralot provided ExeApp application.





- The WebAPI consists of a simple and minimal set of JSON commands that are communicated using the standard HTTP protocol;
- The PAE supplier's application will have to provide the HTTP parser (like a minimal Web server) and implement the WebAPI "server part" in order for the PCSApp Web client to be able to access the magnetic card component;
- The PCSApp will initiate a HTTP Post transaction to the PAE supplier's application (e.g. Loyalty Application "Lapp" in Figure 4), which drives the card reader and card encoder. E.g. PCSApp sends the HTTP Post ReadData to Lapp, it polls the hardware and returns the ReadDataResult.

10.3 Kiosk Configuration

The following parameters need to be specified at the Kiosk in order to be passed via the URL to the PCS Web Portal (eg (<u>https://yourplay.com.au/web/kiosk/home?venueid=<ID OF VENUE>&dual=true</u>&se c=true):

- venueid: The ID (numeric) of the venue that the Kiosk is located. Will be provided by Intralot. If one venue has multiple kiosks, all kiosks will have the same venue ID.
- dual: Can have values "true" or "false". Denotes whether this kiosk also runs a loyalty and/or other applications requiring a shell menu (value="true"), or only runs a browser pointing permanently to PCS (value="false").
- sec: This should have the value "true" to indicate that the Web API is running in secure mode (HTTPS). If the value is "false" this indicated that the Web API is running in HTTP mode. If this parameter is not used, it defaults to "false".

The above parameters should be stored in a location which allows them to be edited by the technician who sets up the Kiosk for the venue, e.g. C:\KioskConf.ini.

10.4 Kiosk Configuration Security Settings

The communication of authentication details between the Kiosk browser and the PCS Web Portal must be secured (HTTPS). IGS has developed a solution that allows the Kiosks Web API commands to be sent in HTTP or HTTPS mode, depending on the browser used.

10.4.1 Google Chrome Browser

As Google Chrome supports mixed HTTPS/HTTP mode, the following options are available for Kiosks using Google Chrome:

Option 1 (Mixed HTTPS/HTTP mode)	Option 2 (Secure HTTPS mode)
Use Kiosk Web API HTTP commands using	Change the Web API to support HTTPS and
Chrome running in mixed mode with the flag "	add the [sec=true] parameter to indicate
allow-running-insecure-content" in chrome.exe	that the Web API is running in secure
	mode

IGS recommends Kiosk providers to build support for the Web API using HTTPS mode, as this will address the security concern of supporting mixed content within the Web browser.

10.4.2 IE Browser

- For Kiosks using the IE browser, the implementation must accept HTTPS Kiosk Web API commands over SSL as IE browser does not support mixed HTTPS/HTTP mode;
- To do this, the parameter [sec=true] must be added to the PCS URL, eg <u>https://yourplay.com.au/web/kiosk/home?venueid=<ID OF VENUE>&dual=true</u>& sec=true;
 - If the parameter is [sec= false] or if the [sec] parameter is not used, the
 Web API commands will continue to be sent using HTTP;
- The browser security setting for "Display mixed content" must also set to "Enable"



23 Security Settings - Local Intranet Zone Settings C Enable ۰ Prompt Allow websites to open windows without address or status b Disable Enable Display mixed content Disable Enable Prompt Don't prompt for client certificate selection when only one ce 🕤 Dicable Enable Drag and drop or copy and paste files 🔘 Disable Enable Prompt Enable MIME Sniffing • Ш Þ

11 Appendix D– WebAPI⁸

11.1 Background

11.1.1 PCS_EXE Protocol

All http messages consist of a start-line followed by a sequence of one or more header lines and a message body.

HTTP-message = start-line

*(header-line CRLF)

CRLF

[message-body]

The normal procedure for parsing an HTTP message is to read the start-line into a structure, read each header field into a hash table by field name until the empty line, and then use the parsed data to determine if a message body is expected.

An "IGS HTTP message" is like an ordinary "HTTP message" with specific body. In order for a server to be able to distinguish a PCS_EXE HTTP request among other HTTP requests, all PCS_EXE HTTP messages will use one of the following start-lines:

11.1.2 POST /PCS_EXE HTTP/1.1

The "Content-Type" in the headers should be: "Content-Type: $pcs_exe_api_v1_0/json"$ in order to be parsed as an CS_EXE API HTTP message. The $v1_0$ signifies the version of the API and is changed accordingly.

Also the header-line characterized by the "Content-Length" field will specify the size of the PCS_EXE HTTP body which follows and will be described shortly (json message). The server response for such a request should be to write on the same connected socket a PCS_EXE HTTP body with the corresponding response.

Finally the "Access-Control-Allow-Origin" header value should be set to "*".

⁸ The references to HTTP refer to both HTTP and HTTPS

The Kiosk and Service Point PC should run a local HTTP service listening for PCS Web API request on port 8020. The browser pointing to the PCS Web Application will run a local javascript which talks to this service by sending JSON messages to 127.0.0.1:8020.

11.1.3 PCS_EXE HTTP BODY FORMAT

A PCS_EXE HTTP BODY message has the Json format (<u>http://www.json.org/</u>). The general syntax is as follows:

```
"{
    "msgheader":
    {
        "CommandID":"COMMAND_ID_VALUE",
        "TrnsTime": seconds_since_1_1_1970 // int time of transaction
    },
    "params":
    {
        "ParamName1": "ParamValue1",
        "ParamName2": "ParamValue2",
        ...
     }
}"
```

11.2 API Messages

The syntax of the API messages is as follows:

```
11.2.1 ReadData:
"{
    "msgheader":
    {
        "CommandID":"CARD_READ_DATA",
        "TrnsTime": seconds_since_1_1_1970 // int time of transaction
    }
}"
```
11.2.2 ReadDataResult:

```
"{
    "msgheader":
    {
        "CommandID":"CARD_READ_DATA_RES",
        "TrnsTime": seconds_since_1_1_1970 // time of transaction
    },
    "params":
    {
        "time": "seconds_since_1_1_1970", // time card was read
        "result": the_result //int (e.g. 0 for Success - rest can be found in document
R1)
        "data": "the_track_data" //string - return track data from position 1
    }
}"
```

```
11.2.3 WriteData:
```

```
"msgheader":
{
    "CommandID":"CARD_WRITE_DATA",
    "TrnsTime": seconds_since_1_1_1970 // int time of transaction
},
"params":
{
    "length": the_length_of_data, // int
```

```
"data": "the_track_data" //string – encode track data from position 1
```

```
}"
```

}

"{

11.2.4 WriteDataResult:

```
"{
      "msgheader":
      {
             "CommandID": "CARD_WRITE_DATA_RES",
             "TrnsTime": seconds_since_1_1_1970 // int time of transaction
      },
      "params":
      {
             "result": the_result //int (e.g. 0 for Success - rest can be found in document
             R1)
      }
}"
11.2.5 Status:
"{
      "msgheader":
      {
             "CommandID": "CARD_STATUS",
             "TrnsTime": seconds_since_1_1_1970 // int time of transaction
      }
}"
```

```
11.2.6 StatusResult:
"{
      "msgheader":
      {
             "CommandID": "CARD_STATUS_RES",
             "TrnsTime": seconds_since_1_1_1970 // int time of transaction
      },
      "params":
      {
             "encoderStatus": "idle" OR "write_pending" OR "write_success" OR
      "write_failed",
             "encoderVersion": "132",
             "encoderManu": "Manufacturer",
             "encoderModel": "ModelType",
             "readerStatus": "idle" OR "read_pending" OR "read_success" OR "read_failed",
             "readerVersion": "847",
             "readerManu": "Manufacturer",
             "readerModel": "ModelType"
      }
```

```
}"
```

11.2.7 ToggleKeyboard:

```
"{
    "msgheader":
    {
        "CommandID":"TOGGLE_KEYBOARD",
        "TrnsTime": seconds_since_1_1_1970 // int time of transaction
    },
    "params":
    {
        "toggle": "show", "hide", "toggle" //only "show" and "hide" will be used
    }
}"
```

11.2.8 ToggleKeyboardResult:

```
"{
    "msgheader":
    {
        "CommandID": "TOGGLE_KEYBOARD_RES",
        "TrnsTime": seconds_since_1_1_1970 // time of transaction
    },
    "params":
    {
        "result": the_result // int (0: success, other: fail)
    }
}"
```

11.2.9 Switch PCS Screen:

```
"{
    "msgheader":
    {
        "CommandID":"SWITCH_PCS",
        "TrnsTime": seconds_since_1_1_1970 // int time of transaction
    }
    "params"
    {
        "visibility": "show" or "hide"
    }
}"
11.2.10 Switch PCS Result:
    "{
```



12 Appendix E– Service Point PC and Kiosk Magnetic Card API

The below API functions are provided for the card reader and card encoder manufacturers. For each device a corresponding DLL file should be implemented that will export all the functions mentioned in the following API. For the encoding devices, there is no need to provide both reading and encoding DLLs, since the reading functionality is incorporated in the encoding DLL.

Every function mentioned in the API uses blocking execution, thus the manufacturers should create DLLs that will provide thread safety.

The DLLs should be named according to the naming scheme "MyCompany_MyModel.dll". They should have versioning information added, which can be extracted through the use of Windows API functions. If the manufacturer's DLLs require external libraries or DLLs, that don't need installation, then these should be located "side-by-side" with those DLLs. If the manufacturer's DLLs depends on external files that needs installation, then the manufacturer must also provide these installers and all the necessary files. In that case the manufacturer also must provide documentation, describing all the necessary steps for the installation procedure.

The location of the DLL files in order for the Venue PC Application to locate them is: C:/Ireni/Devices/

Syntax	int OpenReader(char * port)
Parameters	port : String of characters of the device's port name.
	Example: In the case of a RS-232 device, the port name should be "COMxx" (e.g. "COM3", "COM12"). If the device has a USB connection then the port name should be "USB". In this particular case, this function is responsible to discover the device (e.g. by enumerating the connected USB devices).
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of reader's reply failed -50: Command Timeout
Description	Opens the port of the reader and initializes the device.

12.1 CARD READER API FUNCTIONS



Prototype	int CloseReader()
Parameters	None
Return value	0: Success -10: Port not opened -20: Device not found
Description	Closes the port and releases all resources.

Syntax	int GetReaderManufacturer(char * const manufacturer)
Parameters	manufacturer : Buffer which is filled with device's manufacturer name (maximum size is 256 characters).
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of reader's reply failed -50: Command Timeout
Description	Gets from the device the manufacturer's name Note:The function should be available when the module starts (before opening the port).

Syntax	int GetReaderModel(char * const model)
Parameters	model : Buffer which is filled with device's model type (maximum size is 256 characters).
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of reader's reply failed -50: Command Timeout
Description	Gets from the device the model type Note:The function should be available when the module starts (before opening the port).

Syntax	int GetReaderType(int * type)
Parameters	type: 1: swipe 2: insertion
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of reader's reply failed -50: Command Timeout
Description	Gets from the device the reader type.

Syntax	<pre>int GetReaderVersion(char * const fw_version)</pre>
Parameters	fw_version : Buffer which is filled with device's firmware version (maximum size is 256 characters).
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of reader's reply failed -50: Command Timeout
Description	Gets from the device its firmware version.

Syntax	int SetReaderCardDir(int direction)
Parameters	direction: 1: insertion 2: withdrawal 3: both directions
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of command failed -50: Command Timeout
Description	Configures the reading direction of the card.

Syntax	int GetReaderStatus(int * const status)
Parameters	 status: Returns the status of the reader. The following status flags should be supported: Bit 1: Track 1 decode status (0 no data, 1 track 1 data exist) Bit 2: Track 2 decode status (0 no data, 1 track 2 data exist) Bit 3: Track 3 decode status (0 no data, 1 track 3 data exist) Bit 4: Card present (0 no card present, 1 Card present)
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of command failed -50: Command Timeout
Description	Gets the device's status.

Syntax	int ReaderReset()
Parameters	None
Return value	0: Success -10: Port not opened

	-20: Device not found -30: Write of command failed -40: Read of command failed -50: Command Timeout
Description	Resets the device to initial state, clears all buffers and re-initializes the device.

Syntax	int ReaderEnable(int state)
Parameters	state: 1: enable reading 0: disable reading
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of command failed -50: Command Timeout
Description	Enables or disables the device's reading ability.

Syntax	int SetReadTrackSelection(int track)
Parameters	<pre>track: Bit-oriented number of the track(s) to be set i.e. 0x30 (hex): any track 0x31 (hex): track 1 only 0x32 (hex): track 2 only 0x33 (hex): track 1 and track 2 0x34 (hex): track 3 only 0x35 (hex): track 1 and track 3 0x36 (hex): track2 and track 3 0x37 (hex): all 3 tracks</pre>
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of command failed -50: Command Timeout
Description	Selects the tracks that the reader will read from the card.

Syntax	int SetReadTrackSeparator(int separator)
Parameters	separator : Any ASCII character which is used to separate the data from different tracks.
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of command failed -50: Command Timeout

Description	Sets the character to be used at the end of each track, to facilitate the
	separation of the data received from the reader.

Syntax	int ReadTrackData(int const * track_length, char const * track_data, time_t * timestamp)
Parameters	<pre>timestamp: The exact time when the track_data was read. track_length: The length of the track_data string. track_data: String in which card data are filled.</pre> The card data should contain only the tracks selected by SetReadTrackSelection function. For every track selected the track data should have the separator character appended, which is defined with the SetReadTrackSeparator function. If a track selected has no data then only the track separator should exists. Example: Track 1 and 2 are selected with track separator `\n'. The card read finds data only in track 1. The read operation should return "12345\n\n"
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of command failed -50: Command Timeout
Description	It reads and returns the card's data from selected tracks.

Syntax	int ReaderLedControl(int colour)
Parameters	colour:1: green2: red3: orange
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of command failed -50: Command Timeout -60:Function Not supported
Description	Sets the device led to specific color. Note: The function is optional, depending on the device. For this reason, it has an extra return error code (-60)

12.2 CARD ENCODER API FUNCTIONS

Syntax	int OpenEncoder (char * port)
Parameters	port : String of characters of the device's port name.
	Example: In the case of a RS-232 device, the port name should be "COMxx" (e.g. "COM3", "COM12"). If the device has a USB connection then the port name should be "USB". In this particular case, this function is responsible to discover the device (e.g. by enumerating the connected USB devices).
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of encoder's reply failed -50: Command Timeout
Description	Opens the port of the reader and initializes the device.

Syntax	int CloseEncoder()
Parameters	None
Return value	0: Success -10: Port cannot be closed
Description	Closes the port and releases all resources.

Syntax	int GetEncoderManufacturer(char * const manufacturer)
Parameters	manufacturer : Buffer which is filled with device's manufacturer name (maximum size is 256 characters).
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of reader's reply failed -50: Command Timeout
Description	Gets from the device the manufacturer's name. Note: The function should be available when the module starts (before opening the port).

Syntax	int GetEncoderModel(char * const model)
Parameters	model : Buffer which is filled with device's model type (maximum size is 256 characters).
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed

	-40: Read of reader's reply failed -50: Command Timeout
Description	Gets from the device its model type Note: The function should be available when the module starts (before opening the port).

Syntax	<pre>int GetEncoderType(int * type)</pre>
Parameters	type: 1: swipe 2: insertion
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of reader's reply failed -50: Command Timeout
Description	Gets from the device the encoder type.

Syntax	<pre>int GetEncoderVersion(char * const fw_version)</pre>
Parameters	fw_version : Buffer which is filled with device's firmware version (maximum size is 256 characters).
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of reader's reply failed -50: Command Timeout
Description	Gets from the device its firmware version.

Syntax	int SetEncoderCardDir(int direction)
Parameters	direction: 1: insertion 2: withdrawal 3: both directions
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of command failed -50: Command Timeout
Description	Configures the encoding and/or reading direction of the card.

Syntax	<pre>int GetEncoderStatus(int * const status)</pre>			
Parameters	 status: Returns the status of the reader. The following status flags should be supported: Bit 1: Track 1 decode status (0 no data, 1 track 1 data exist) Bit 2: Track 2 decode status (0 no data, 1 track 2 data exist) Bit 3: Track 3 decode status (0 no data, 1 track 3 data exist) Bit 4: Card present (0 no card present, 1 Card present) 			
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of command failed -50: Command Timeout			
Description	Get the device's status.			

Syntax	int EncoderReset()
Parameters	None
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of command failed -50: Command Timeout
Description	Resets the device to initial state, clears all buffers and re-initializes the device.

Syntax	int EncoderEnable(int state)		
Parameters	state: 1: enable device 0: disable device		
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of command failed -50: Command Timeout		
Description	Enables or disables the device's writing and reading ability.		

Syntax	int SetTrackSelection(int track)		
Parameters	<pre>track: bit-oriented number of the track(s) to be set i.e. 0x30 (hex): any track 0x31 (hex): track 1 only 0x32 (hex): track 2 only 0x33 (hex): track 1 and track 2 0x34 (hex): track 3 only</pre>		



	0x35 (hex): track 1 and track 3 0x36 (hex): track2 and track 3 0x37 (hex): all 3 tracks
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of command failed -50: Command Timeout
Description	Sets the card's tracks that the reader will read or write to.

Syntax	int EraseCard()
Parameters	None
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of command failed -50: Command Timeout
Description	Will erase all the tracks of the card.

Syntax	int SetTrackSeparator(int separator)		
Parameters	separator : any ASCII character which is used to separate the data from different tracks.		
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of command failed -50: Command Timeout		
Description	Sets the character to be used at the end of each track, to facilitate the separation of the data received from or encoded by the device.		

Syntax	int WriteTrackData(int const * track_length, char const * track_data)				
Parameters	track_length : the length of the track_data string track_data : string in which card data are filled.				
	The card data will be written to the tracks which are defined by <i>SetTrackSelection</i> function. For every track selected the track data should have the separator character appended, as defined with the <i>SetTrackSeparator</i> function. If a track selected has no data then only the track separator should exists.				
Return value	0: Success				

	-10: Port not opened -20: Device not found -30: Write of command failed -40: Read of command failed -50: Command Timeout	
Description	Encodes the selected track data to the card.	

Syntax	<pre>int ReadTrackData(int const * track_length, char const * track_data, time_t * timestamp)</pre>			
Parameters	<pre>timestamp: the exact time when the track_data was read. track_length: the length of the track_data string. track_data: string in which card data are filled.</pre>			
	The card data should be read from the tracks which are defined by <i>SetTrackSelection</i> function. For every track selected the track data should have the separator character appended, as defined with the <i>SetTrackSeparator</i> function. If a track selected has no data then only the track separator should exists.			
	Example: Track 1 and 2 are selected with track separator \n' . The card read finds data only in track 1. The read operation should return "12345\n\n".			
Return value	0: Success -10: Port not opened -20: Device not found -30: Write of command failed -40: Read of command failed -50: Command Timeout			
Description	Reads and returns the card's data from the selected tracks.			

13 Appendix F – SMIB Power Specifications

The SMIB power supply is rated at 12V, 3.0A and is used for powering up the SMIB itself as well as the peripherals that can be connected on its external ports. The SMIB power supply unit must only be used to power integrated PAE components.

A summary of the powering scheme for the PAE equipment is shown in the table below:

Туре	Connection	Power model	
Display	VGA	External power or powered from the SMIB power supply following the SMIB Power Splitter requirement below.	
Touchscreen and Touch controller	USB	External power or powered from the USB following the USB Interface power requirement below.	
Magnetic Card reader	USB	External power or powered from the USB following the USB Interface power requirement below.	

13.1 USB Interface Power Requirement

- Any component connecting via standard USB interface must be compliant with the USB version 2.0 certified Type A connection;
- If powered via USB, the component should not exceed the maximum power consumption standard for the USB of 500mA per port.

13.2 SMIB Power Splitter Requirement

- The maximum power assigned to the PAE Display Panel is 12W maximum, i.e. 12V/1A;
- The PAE supplier must provide a power splitter cable for ATF approval that follows the drawing diagram in Appendix H. The detailed cable specification is as follows:
 - $\circ~$ The cable must have wires of at least 18AWG;
 - The power splitter cable must be equipped with an inline fuse (slow blow) rated at 1.0A towards the display or the monitor must have a respective fuse of 1.0A.

 In any case the splitter cable must establish that the output voltage to the Monitoring SMIB side and consequently input voltage to the SMIB will not drop below 11V @2A current draw. For that purpose the length/thickness of the splitter cable must be such so that above minimum voltage levels are always met.

14 Appendix G – Interim Component List

Details of the PAE components that have undergone preliminary testing for compatibility with the Pre Commitment System are shown below:

14.1 PIM Display Panels

Preliminary testing has indicated that the following Digital Display Panels will interoperate directly with the PCS/Monitoring SMIB, i.e. no further driver development work is needed to integrate with PCS, given that a VGA connection is used following the Kernel timing Option 1 or 2 as specified in Section 2.6.1:

Digital Panel Brand/model	Resolution/timing	Video standard
Kyocera/ TCG062HVLDA-G209	640*240/60Hz	HVGA
Hitachi/ TX16D20VM5BQA ¹⁰	640*240/60Hz	HVGA

14.2 PIM Touchscreen Controllers

Preliminary testing has indicated that the following Touchscreen Controllers will interoperate directly with the PCS/Monitoring SMIB:

Brand/model	Connection type	Power
3M SC401U ¹¹	USB HID	USB self-powered
DMC DUS1000 12	USB HID	USB self-powered

The connection type and Kernel driver information regarding the 3M touchscreen controller is provided below as an example:

Туре	Brand/model	Connection	Driver
4-wireresistive touchscreen controller	3M Touch SC401U	USB HID	Kernel

⁹<u>http://www.kyocera.co.uk/index/products/lcds_glass_glass_touch_panels/download.-cps-7018-files-56236-File.cpsdownload.tmp/TCG062HVLDA-G20Eng..pdf</u>

¹⁰<u>http://www.avnet-embedded.eu/fileadmin/user_upload/Files/Displays/Colour_TFT/TX16D20VM5BQA.pdf</u>

¹¹<u>http://solutions.3m.com/wps/portal/3M/en_US/Electronics_NA/Electronics/Products/Touch_Systems/~</u>/3M-MicroTouch-Electronics-EX-4-wire-Resistive-Controller-USB?N=5153292+3294736499&rt=rud

¹²<u>http://www.datadisplay-group.de/fileadmin/pdf/produkte/Touchcontroller/DMC/DUS1000_Datasheet.pdf</u>

14.3 PIM Magnetic Card Readers

Preliminary testing has indicated that the following Magnetic Card Readers will interoperate directly with the Intralot PCS/Monitoring SMIB:

Brand/model	Connection type	Power
MAGTEK Half Card Reader ¹³	USB HID	USB self-powered
IDTECH Gaming reader ¹⁴	USB HID	USB self-powered

14.4 Service Point PC Keypad/Pinpad

Any numeric keypad with a USB connection that complies with USB keyboard input devices standards may be used.

The following keypad is given as an example:

Brand/Model	Connection	Device type
KONIG Numeric keypad	USB	Keyboard

14.5 Service Point PC Card Printer/Encoders

Preliminary testing has indicated that the following Service Point PC Card Printer/Encoders will interoperate directly with the PCS Web Portal application, i.e. no further API development work is needed to integrate with PCS:

Brand/Model	Туре	Encoding capacity
Datacard SP25 ¹⁵	Printer/Encoder	Track 2, Full capacity
IDTech EzWriter/EconoWriter ¹⁶	Encoder/Reader	Track 1,2 ,3 Full capacity

¹³<u>http://www.magtek.com/v2/products/secure-card-reader-authenticators/half-card.asp</u>

¹⁴<u>http://www.idtechproducts.com/products/insert-readers/117.html</u>

¹⁵<u>http://www.datacard.com/id-card-printers/sp25-plus-id-card-printer</u>

¹⁶<u>http://www.idtechproducts.com/products/swipe-readerwriters.html</u>

14.6 Service Point PC Card Readers

Preliminary testing has indicated that the following Service Point PC Card Reader models will interoperate directly with the PCS Web Portal application:

Brand/Model	Туре	Connection
IDTech EzWriter/EconoWriter ¹⁷	Encoder/Reader	USB
IDTech Minimag Duo ¹⁸	Reader	USB

14.7 Venue Kiosk Card Readers

Preliminary testing has indicated that the following two Kiosk Card Reader models will interoperate directly with the PCS Web Portal:

Brand/model	Connection type	Power
MAGTEK Half Card Reader ¹⁹	USB HID	USB self-powered
IDTECH Gaming reader ²⁰	USB HID	USB self-powered

¹⁷Same link as Footnote 10 above.

¹⁸Same link as Footnote 10 above.

¹⁹<u>http://www.magtek.com/v2/products/secure-card-reader-authenticators/half-card.asp</u>

²⁰<u>http://www.idtechproducts.com/products/insert-readers/117.html</u>

15 Appendix H – Power Splitter Cable Diagram

Customer Approved	[RO
A = A = 1		
PIN ASSIGNMENT 5 U	UL1185 18AWG*1C+S OD:ø3.5 JACKET:PVC BLACK	
A COLOR B C 4 F	FUSE: 0229001P+01500274Z + HEAT SHRINK TUBE: Ø4*30 BLACK*2PC	S ZH101
1 CONDUCTOR 1 1 2	DC PLUG \$5.5*\$2.5 L:23.5 MOLDING: PVC 45P BLACK 90 (MOLD NO. F	0246
	DC JACK Ø5.5*Ø2.5+ HEAT SHRINK TUBE: Ø8*40 BLACK	
ITEM	MATERIAL	
SEP/16/2014 CHANGE DC JACK #5.5*#2.1 #5.5*#2.5	Approved Part no EU0111-103073101	
ADD DIMENSION	Checked Item AS28000250	
Rev. Date Description	Urawing Hunter Drawing no PDED_EU0111-103073101	
	Date AUG/08/2014 Sheet:1/1 3rd Ar	ngle Pro





Kiosk implementation Style guide

Pre-Commitment System



v0.2, 4th Feb 2015

How to use this document

This document describes the functionality and display of the Pre-Commitment site and kiosk touch screen keyboard. It is to be used as a reference document when developing and checking the deployed designs on the target hardware.

Units of measurement

The touch screen keyboard has been designed to meet best-practice button and text sizes to support user interaction. While measurements can be supplied in pixels it is the final physical size on screen in millimetres that counts and all measurements have been stated as such. Pixel resolution varies from device to device. Ensure that the final physical sizes are validated on the actual deployed screen.

Photoshop artwork

This document is to be used in conjunction with the supplied Photoshop files. Ensure that in deploying these designs that details such as alignment of components, size and colours are retained.





Bo not show site in a smaller window



Minimum viewable area of site while keyboard is visible



Correct arrangement of keyboard on varying screen sizes



return

· 🗘 !?123

Minimum keyboard dimensions



Overlay behaviour of keyboard



Preserve proportions of Pre-Commitment site when keyboard displays



Keyboard overlays on top of underlying website.

😢 Do not distort proportions of site



Keyboard toggle behaviour



Pre-Commitment Kiosk implementation style guide



Standard button



Neutral		Pressed	
Gradient from	#fff	Background	#d6d6d6
Gradient to	#e7e7e7	Stroke	2px #868686
Stroke	2px #868686	Text colour	#424242
Text colour	#424242		





Ensure both shift buttons are synchronised so that both respond when one is pressed



Gradient from #5d5d5d

#424242

#424242

2рх

#fff

Neutral

Gradient to

Text colour

Stroke



#333333
2px #333333
#fff

Gradient from #470a59

#59196c

#330540

2px

#fff

On

Gradient to

Text colour

Stroke



3ackground	#330540
Stroke	2px #330540
lext colour	#fff

Function button



Neutral		
Gradient from	#5d5d5d	
Gradient to	#424242	
Stroke	2px #424242	
Text colour	#fff	



Pressed #333333 Background 2рх Stroke #333333 **Text colour** #fff

Toggle button (Shift button only)

Fonts and button labels

Roboto Medium

Roboto is a licence free font available at http://developer.android.com/design/style/typography.html

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 1234567890 !"#\$%&'()*+,-./:;<=>?@[\]^_`{|}~

Shift and Backspace vector icons

The icons for the shift button and backspace button have been saved as individual vector artwork files and should be used in creating these buttons.

$$\bigcirc$$

qwertyu i o	p
asd fghjkl	return
	· 4
!?123	!?123

ASCII character code mapping

For further information refer to the 'ASCII printable characters' table at www.ascii-code.com

Lower case



Upper case



Numeric



Special characters

