

Slot Advantage Play Fraud Detection Unit

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Slot Advantage Play

Fraud Detection Unit and Tool Overview

Must-Hit Jackpots

Persistent State Slot Machines / Bonus Chasing

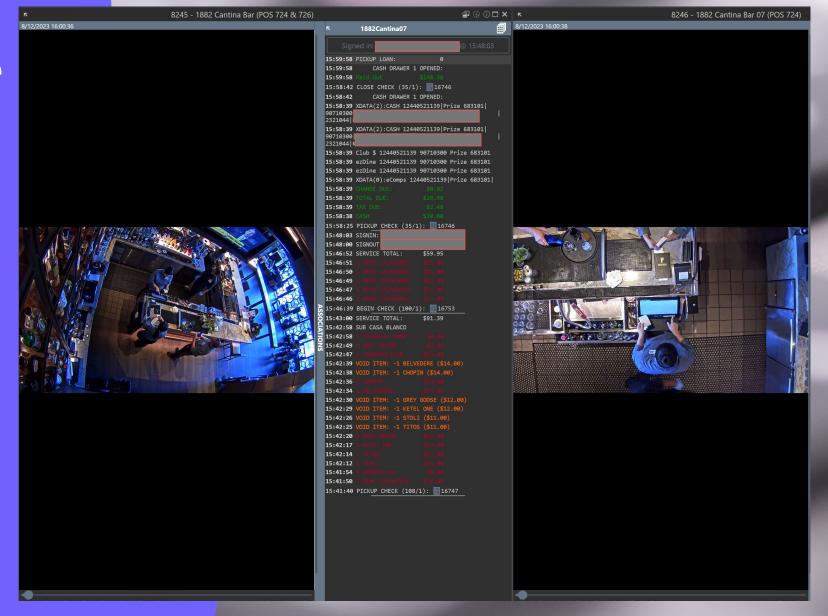
FreePlay Fraud

FDU Overview

The Fraud Detection Unit is a group comprised of specialized surveillance employees that utilize data analytics to detect fraud, theft and advantage play.



Point of Sale



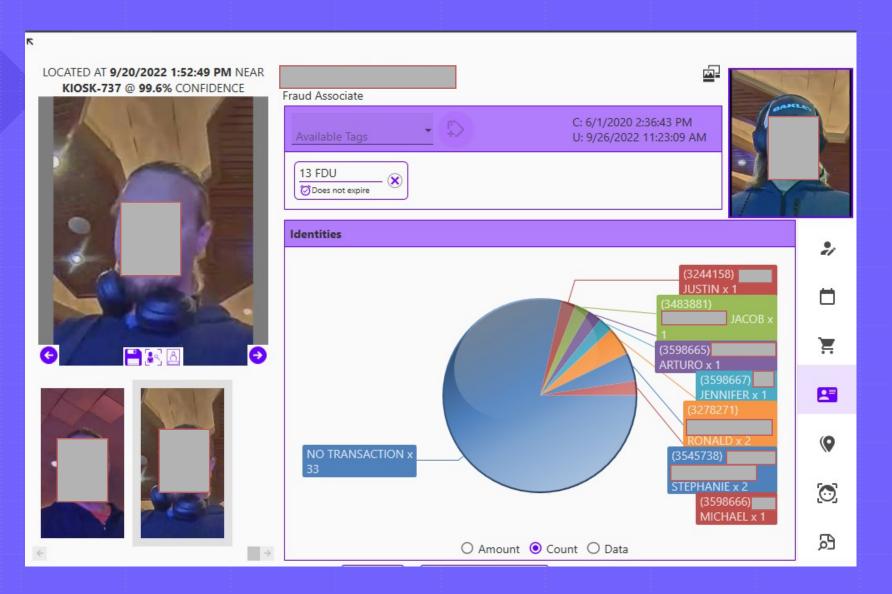
FDU Overview

Face Recognition and LPR Data





Facial Recognition

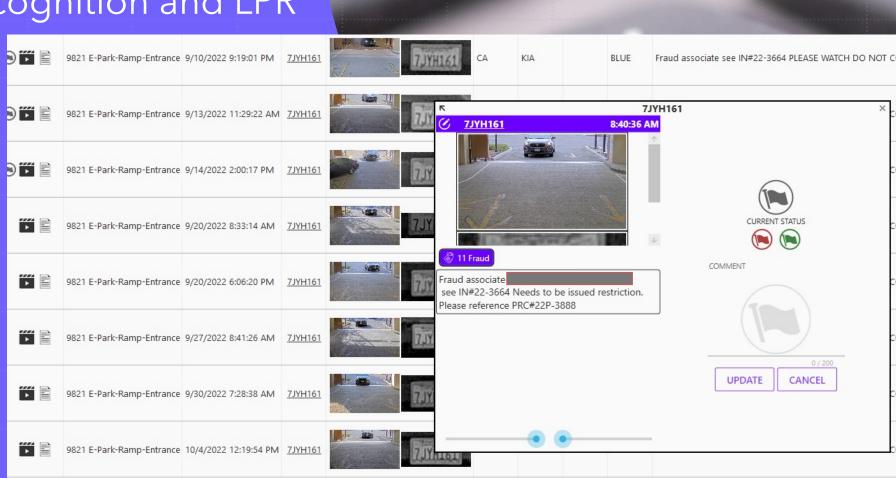


"Face Print" - an impression or mark left on the database which can be tracked for associations to events, places, times etc.

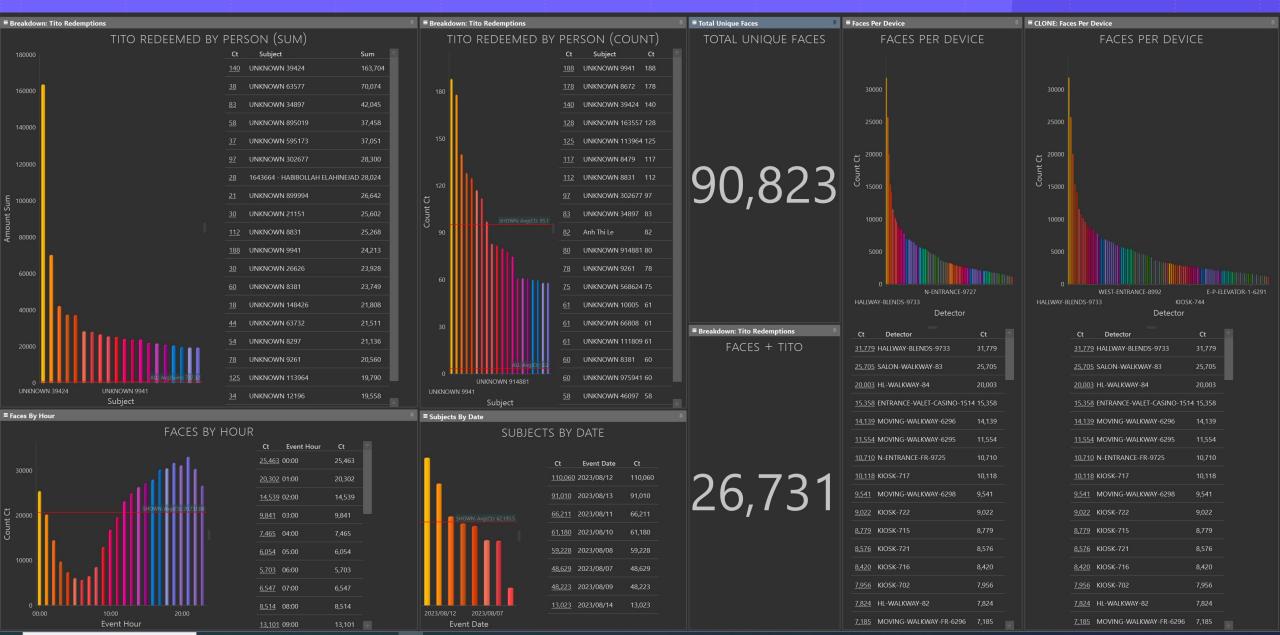
FDU Overview

Face Recognition and LPR

Data



Face Recognition Statistics and Data Analytics



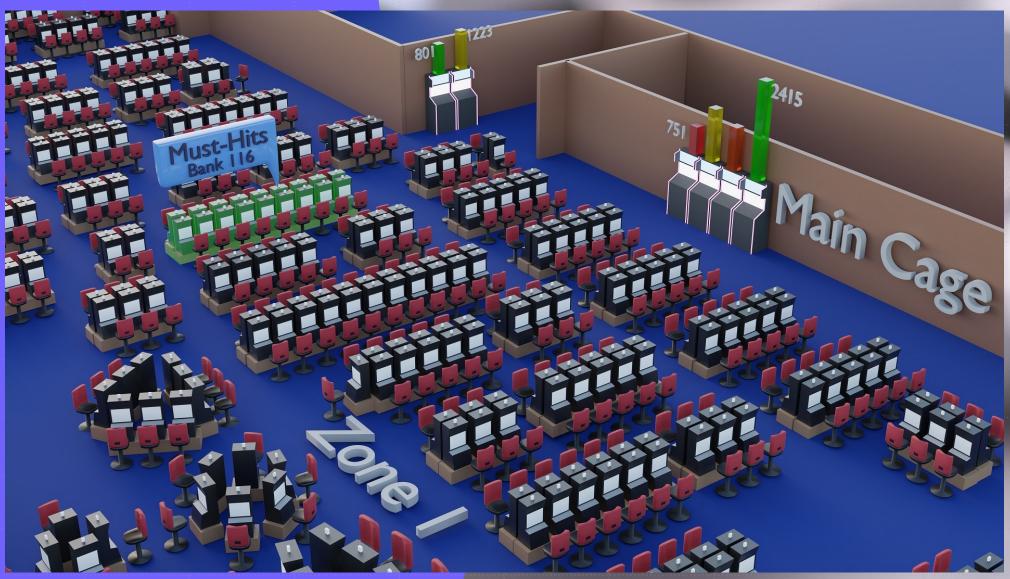
Player Evaluation

Pairing data with video: RFID, Machine Learning, Face Recognition





Data Visualization



Must-Hit Jackpots

Overview:

Must Hit Jackpots are jackpots that must hit before they reach their capped amount.

Advantage Players often scout multiple casinos looking for progressives that are approaching the capped amount.

Must-Hit Advantage Players do not have an advantage over the house.



Must-Hit Jackpots

Downsides to jackpot chasers:

Jackpot chasers will often use abrasive tactics to get players to leave potentially profitable games.

Making guests feel uncomfortable / invading personal space Blowing smoke in the player's face

Utilizing aggressive or rude behavior

The average player that wins a must-hit progressive might re-invest that money back into the casino via coin-in over the next few years. Whereas advantage players intend to collect the money and spend it outside of the casino.

Jackpot chasing could be used for money laundering or to hide/fund other criminal activity.



Must-Hit Jackpots

Things to Remember:

Must-Hit Jackpots will continue to draw in new players that will want to try to take advantage of the progressives.

Jackpot Chasers can provide you with a lot of intel.

Observe their activity on property, rather than immediately banning them.

JP Chasers will often meet with other JP Chasers.

Let JP Chasers show you which games they're targeting by observing their activity. As they go from machine to machine, they're giving you a list of games that you should be paying attention to.

Slots - Must Hit Advantage Calculator

Input Game Info	
Game Hold Percentage	4.8
Progressive Starting Amount	\$0
Must Hit By	\$10,000
Range	\$10,000
Increment Amount	0.0015

Coin-In Increment Amounts					Max			
Coin-In	\$1,000	\$10,000	\$100,000	\$1,000,000	\$6,666,667			
Increment	\$1.50	\$15.00	\$150.00	\$1,500.00	\$10,000.00			
Must Hit, Minus Current	\$0	\$50	\$100	\$150	\$200	\$250	\$300	\$3.

Must Hit, Minus Current	\$0	\$50	\$100	\$150	\$200	\$250	\$300	\$350	\$400	\$450
Coin-In Cost to Increment	\$0	\$33,333	\$66,667	\$100,000	\$133,333	\$166,667	\$200,000	\$233,333	\$266,667	\$300,000
Theo	\$0	\$1,600	\$3,200	\$4,800	\$6,400	\$8,000	\$9,600	\$11,200	\$12,800	\$14,400
Starting Amount	\$10,000	\$9,950	\$9,900	\$9,850	\$9,800	\$9,750	\$9,700	\$9,650	\$9,600	\$9,550
Jackpot Amount	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Theo Win	\$10,000	\$8,400	\$6,800	\$5,200	\$3,600	\$2,000	\$400	(\$1,200)	(\$2,800)	(\$4,400)
Advantage?	YES	YES	YES	YES	YES	YES	YES			

Persistent State Slots





A Persistent State Slot has an element that sticks around beyond the spin that brought it about.

Persistent State Slots



Persistent State Slots

Persistent State Bonuses are features designed to entice additional coin-in from a player that remain in place after a player cashes out.

Similar to progressive meters

Can be multipliers, bonus game meters or other game feature

Dozens of game themes have persistent state bonuses

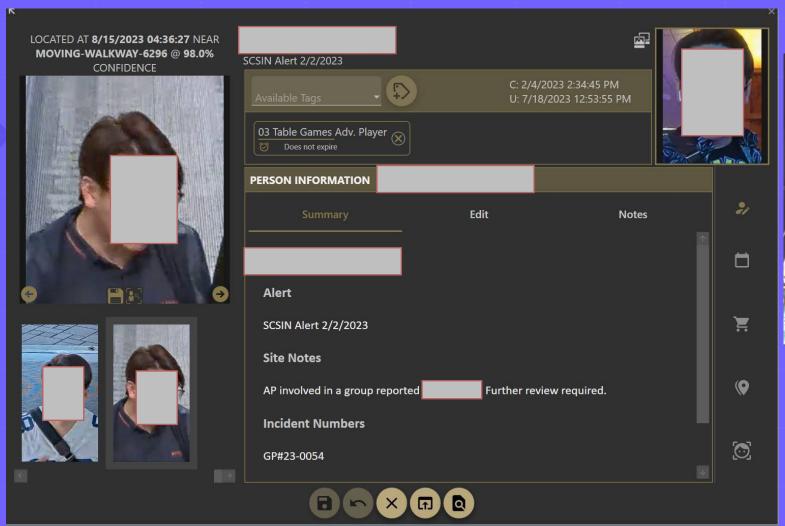
















FreePlay Investigation

An audit was conducted for monthly **EZ Play Reward Usage** looking for outlying data points.

This team operated by generating a Casino Theoretical Win of \$6,000 playing slot machines while using multiple player accounts.

This theoretical loss qualified the utilized accounts for eight weeks of an "EZ Play" promotion at \$800 per week and entry into a weekly kiosk swipe promo with prizes that ranged from \$300 - \$500.

FreePlay Issued:

\$800 X 8 = \$6,400

\$500 X 8 = \$4,000



FreePlay Account Example

- In total this team of six individuals were using approximately 140 accounts in a rotation of 7 to 8 cards at a time. Our research showed some of these accounts were being utilized since 2019
- Live video of the play showed persons not matching the account holder's ID photo and all accounts had matching PIN numbers
- The play did not have any cash buy-ins since the initial setup plays
- Play time was typically very short during the redemption phase
- EZ Play was downloaded at known low house advantage games such as video poker
- Common EZ Play download dates, matched days of promotional swipes



(Account During Redemption Phase)

1. Loading Phase

Accounts currently o	n Loading	Phase/No Fre
Name	Tier	Account
	Silver	3594104
	Silver	3598664
	Silver	3598665
	Silver	3598666
	Silver	3598667
	Gold	3506952
	Gold	3545734
	Silver	3598668

(2-3 month waiting period)

2. EZ Play Redemption Phase

	Accounts in current cyc	le	
	Name	Tier	Account
4		Gold	3545738
		Silver	3471256
		Silver	3278271
		Silver	3429424
		Gold	3280873
		Silver	3296355
)		Gold	3244158

4. Over- Invested Accounts

Over-Invested Accou	ınts	More than 1	==
Name	Tier	Account	
	Gold	3280873	
	Silver	3296355	
	Gold	3545736	/
	Silver	2331141	
	Gold	3483881	
	Silver	3478522	
	Silver	3439328	
	Gold	3545735	
	Silver	3235363	

 Over-Invested accounts out of EZ Play restriction, some will begin Loading phase some will requalify for EZ play automatically

Fraud Cycle

3. Intro of New Qualifying Accounts

Accounts for up coming	cycle				
Name	Tier	Account			
	GOLD	3506952			
	GOLD	3478523			
	SILVER	3470159			
	Silver	3296805			
	Gold	3545734			
	Silver	3242153			

Meet the Team





- Software Engineer
- In online database for Advantage Play on table games
- In 2013, Suspicious Activity on table games w/ \$21k win
- In 2009, involved in EZ Play fraud
- Loaded (3) accounts at a time, strictly on Sundays
- Always wore a face mask while on property
- Covered kiosk camera when cashing out slot tickets
- Removed card from slot machine before cashing out





- Professional Poker Player.
- Casino experience.
- In charge of "Loading Phase"
- Swiped (3) accounts strictly on Tuesdays for kiosk promos.
- Filled in for redemption phase on only one occasion.
- Recruits new accounts
- Not as meticulous at hiding actions and identity as others in group

Loading Phase

Cash buy-ins ranging from \$2.5k to \$5k

Video blackjack used for loading phase, 3 to 4 hours of play

Blackjack game chosen was a multi-game machine and the house edge was averaged, earning at a higher rate than actual

Swapped out cards once \$120k in coin-in / \$6k in Casino Theoretical had played through

Accounts currently	on Loadin	g Phase/No Fr	ee Play Issued				
Name	Tier Account Tot		Total Cash Buy In	Total Coin In	Casino Theo Win	Loading Date	Location ID
	Silver	3594104	\$4,000.00	\$120,700.00	\$6,011.00	8/18/2022	Machine 21437
	Silver	3598664	\$2,500.00	\$120,720.00	\$6,012.00	8/30/2022	Machine 21437
	Silver	3598665	\$3,500.00	\$120,695.00	\$6,011.00	9/1/2022	Machine 21437
	Silver	3598666	\$4,400.00	\$120,700.00	\$6,014.00	9/20/2022	Machine 21437
	Silver	3598667	\$2,800.00	\$120,690.00	\$6,010.36	9/8/2022	Machine 21437
	Gold	3506952	\$3,300.00	\$120,720.00	\$6,011.86	6/2/2022	Machine 21437
	Gold	3545734	\$2,600.00	\$120,700.00	\$6,010.86	5/3/2022	Machine 21437
	Silver	3598668	\$0.00	\$0.00	\$0.00	TBD	TBD

Redemption Phase

https://www.vpfree2.com/

The team and most all of the teams we found, redeemed the EZ Play from machines with the lowest theoretical holds available to them.

10 VP Games:				
99.73% DW44	Deuces Wild 44 □			NSUD
\$1, \$2, \$5		1 Play	MG	<u>in front of high limit cashier (\$5 per point)</u>
\$5, \$10, \$25		1 Play	MG	in front of high limit cashier (\$5 per point)
\$25, \$50, \$100		1 Play	MG	in front of high limit cashier (\$5 per point)
99.64% Bdlx	Bonus Deluxe □			Bdlx (FP)
25¢, 50¢, \$1, \$2, \$5	Donas Delake -	1 Play		on right side of outside section of Corner Bar
99.54% JoB	Jacks or Better □			JoB (FP)
5¢, 10¢, 25¢, \$1		1 Play	MG	a few banks scattered (\$5 per point)
25¢, 50¢, \$1		3/5/10 Play		outside high limit room
25¢, 50¢, \$1, \$2		1 Play	MG	Cabaret Lounge Bar (\$5 per point)
25¢, 50¢, \$1, \$2		1 Play	MG	several banks (\$5 per point)
\$1, \$2, \$5		1 Play	MG	<u>High Limit Bar (\$5 per point)</u>
\$1, \$2, \$5		1 Play	MG	on north side of casino outside high limit room (\$5 per point)
\$1, \$2, \$5		1 Play	MG	<u>in front of high limit cashier (\$5 per point)</u>
\$5, \$10, \$25		1 Play	MG	<u>in front of high limit cashier (\$5 per point)</u>
\$25, \$50, \$100		1 Play	MG	<u>in front of high limit cashier (\$5 per point)</u>
99.45% BDW	Bonus Deuces Wild			BDW (FP)
5¢, 10¢, 25¢, \$1		1 Play	MG	a few banks scattered (\$5 per point)
25¢, 50¢, \$1, \$2		1 Play	MG	Cabaret Lounge Bar (\$5 per point)
25¢, 50¢, \$1, \$2		1 Play	MG	several banks (\$5 per point)
\$1, \$2, \$5		1 Play	MG	High Limit Bar (\$5 per point)
\$1, \$2, \$5		1 Play	MG	on north side of casino outside high limit room (\$5 per point)
99.17% BP	Bonus Poker □			BP (FP)
5¢, 10¢, 25¢, \$1		1 Play	MG	a few banks scattered (\$5 per point)
25¢, 50¢, \$1, \$2		1 Play	MG	Cabaret Lounge Bar (\$5 per point)
25¢, 50¢, \$1, \$2		1 Play	MG	several banks (\$5 per point)
\$1, \$2, \$5		1 Play	MG	<u>High Limit Bar (\$5 per point)</u>
\$1, \$2, \$5		1 Play	MG	on north side of casino outside high limit room (\$5 per point)
\$1, \$2, \$5		1 Play	MG	<u>in front of high limit cashier (\$5 per point)</u>
\$5, \$10, \$25		1 Play	MG	<u>in front of high limit cashier (\$5 per point)</u>
			# #	

Numbers based on (16) accounts 1+ completed cycles

Accounts in Current Cy	cle	More than 1	cycle	New Account f	irst cycle			
Name	Tier	Account	Total Cash Buy In	Total Coin In	Casino Theo Win	Free Play Issued	Free Play Theo Win	Casino Theo Win
	Gold	3545738	\$5,000.00	\$129,750.00	\$6,227.00	\$10,450.00	\$292.60	(\$3,930.40)
	Silver	3471256	\$3,001.00	\$130,112.00	\$6,313.75	\$17,325.00	\$485.10	(\$10,526.15)
	Silver	3278271	\$7,160.00	\$183,473.00	\$9,523.60	\$24,130.00	\$675.64	(\$13,930.76)
	Silver	3429424	\$3,267.00	\$99,333.00	\$6,185.00	\$16,950.00	\$474.60	(\$10,290.40)
	Gold 3244158 Silver 3296805		\$13,190.00	\$343,366.25	\$21,520.03	\$31,830.00	\$891.24	(\$9,418.73)
			\$10,203.00	\$233,583.35	\$12,516.19	\$26,550.00	\$743.40	(\$13,290.41)
	Silver	3242153	\$16,164.00	\$311,975.10	\$19,195.79	\$33,874.00	\$948.47	(\$13,729.74)
			_					
Over-Invested Account				New account f	•			
Name	Tier	Account	Total Cash Buy In	Total Coin In		Free Play Issued	Free Play Theo Win	Casino Theo Win
	Gold	3280873	\$10,460.00	\$343,880.40	\$17,359.10	\$25,785.00	\$721.98	(\$7,703.92)
	Silver	3296355	\$7,287.00	\$201,267.40	\$11,320.24	\$29,169.00	\$816.73	(\$17,032.03)
	Gold	3545736	\$2,800.00	\$131,047.50	\$6,271.93	\$10,250.00	\$287.00	(\$3,691.07)
	Silver	2331141	\$3,127.00	\$128,820.75	\$6,208.56	\$13,475.00	\$377.30	(\$6,889.14)
	Gold	3483881	\$5,100.00	\$141,704.25	\$6,437.71	\$10,750.00	\$301.00	(\$4,011.29)
	Silver	3478522	\$3,330.00	\$120,706.64	\$6,011.83	\$10,635.00	\$297.78	(\$4,325.39)
	Silver	3439328	\$4,020.00	\$93,640.00	\$6,001.60	\$25,390.00	\$710.92	(\$18,677.48)
	Gold	3545735	\$3,700.00	\$120,720.00	\$6,011.86	\$11,000.00	\$308.00	(\$4,680.14)
	Silver	3235363	\$4,920.00	\$120,660.00	\$6,008.00	\$14,630.00	\$409.64	(\$8,212.36)
			1					**************
Totals			\$102,729.00	\$2,834,039.64	\$153,112.19	\$312,193.00	\$8,741.40	(\$150,339.41)
Average per account			\$6,420.56	\$177,127.48	\$9,569.51	\$19,512.06	\$546.34	\$9,396.21

(\$9,121.22) AVG Casino Loss Per Account

Freeplay Fraud

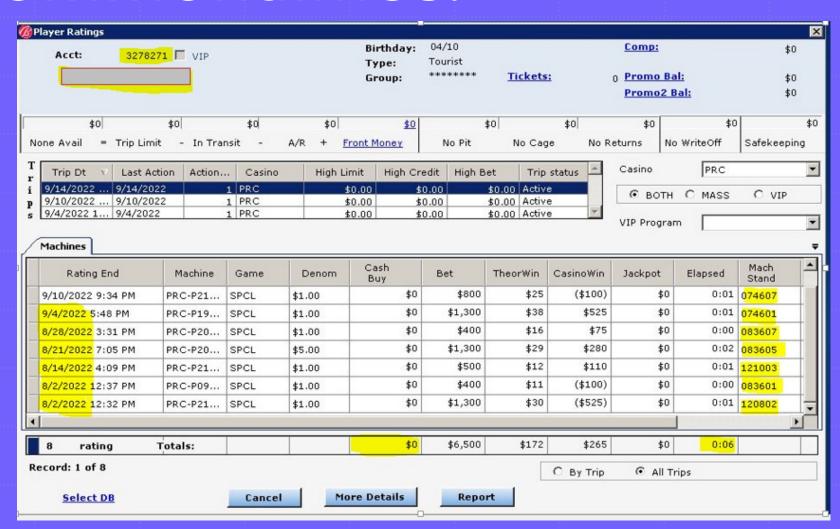
Home >	MARKETING >	PLAYER DEV	ELOPMENT	Comp Cal	culator									
Select an Acc	t (must be 0 if un	known) :	11 6000		OR - Se	elect a Playerl	d (must be () if unknow	1): 0					
Id	< 1 o	of 1 >	ÞI 💍	©	100%		, <u></u> ф		Fin	d Next				
	Comp Calculator 2019 V1.0													
	PLAYER INFORMATION													
PlayerID	Acct	First	Name	Last N	lame	Gender	Birth [Ot Ca	rd Level	Mgmt Rating	Banned ?	Ethnicity	Member Since	
								1000	Jade	P10	False			
PLAYER	PLAYER LAST PLAYED PLAYER DEVELOPMENT - CALCULATED VALUES - R6M PLAYER ACCOUNT BALANCES													
Slots	Table Games	Comp Ear	ned PD Com	Used PD Co	omp Unused Bu	us Promo Used	VIP Lounge	Used Co	mp Available	ADW Level	Club \$	EZ Play	EZ Dine	
2023-06-1	8 2023-01-13	13,498.	12 6,08 9	.60	0.00	0.00	0.00		7,408.52	T1	2.44	0.00	200.00	
	WARNING *** Do not discuss Comp Available with our Guests *** WARNING													
	PLAYER RATINGS SUMMARY and PLAYER AWARDS SUMMARY													
Period End	Period Start	Theo	Actual	EZPlay Used	Actual Net	# Days	ADT	ADA (N)	ADW (N)	DM Hotel Used	Award Used	% Used vs Theo	% Used vs Actual (N	
CURRENT GA	MING DAY													
2023-06-19	2023-06-19	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
CURRENT TR				P										
2023-06-17	2023-06-18	946.76	2,614.00	200.00	2,414.00	2	473.38	1,207.00	482.80	0.00	268.00	28.30	11.10	
LAST TRIP						1		1		77000000				
2023-06-15		1,105.40	(1,786.01)	725.00	(2,511.01)	1	1,105.40	(2,511.01)	1,105.40	0.00	785.67	71.07	(31.28)	
ROLLING 3 N	The second second second second	E4.167.44	60.007.03	16 220 00	F1.0F7.00	26	1 504 65	1 440 47	1 504 65	220.00	25 407 27	47.07	40.16	
2023-03-19 ROLLING 6 N		54,167.44	68,087.03	16,230.00	51,857.03	36	1,504.65	1,440.47	1,504.65	338.00	25,497.37	47.07	49.16	
2022-12-19		112,484.37	127,745.75	37,325.00	90,420.75	79	1,423.85	1,144.57	1,423.85	338.00	53,667.04	47.71	59.35	
ROLLING 12		112,404.57	127,743.73	37,323.00	30,420.73	, ,	1,423.03	1,144.57	1,423.03	338.00	33,007.04	47.71	33.33	
2022-06-19		335,647.05	366,715.73	81,770.00	284,945.73	190	1,766.56	1,499.71	1,766.56	2,567.00	122,693.27	36.55	43.05	
		-1	/	,	, , , , , , , ,		ķ	7,	-,					
			PLAYER C	ONTACT INFO	DRMATION						HOST IN	NFORMATION		
Mail ?	Phone Call ?	Phone Text ?	Phone - H	ome Em	ail OK ?		Email - Hor	ne		Host ID	Host Firs	t Name	Host Last Name	

Familiarize yourself with how comps are handled. Understand how to determine if the casino has overinvested in players or if a player has a history of repeated over-investment

Over-investment of comps is an indicator that a player might be taking advantage of a FreePlay promotion

Commonalities:

- Address
- Sign-Up Date and Times
- PIN
- Setup Amounts
- Setup Locations
- Redemption Locations



Marketing Working With You



Suspicious Activity Detail

Suspicious Activity from 8/7/2023 to 8/15/2023

Account ID	First Name	Last Name	Club Status	Last Active Date	Post Min Of Set Up Date	Post Set Up Total TWin	Post Set Up Total AWin	Post Set Up Slot TWin	Post Set Up EasyPlay Slot	Set Up Date	Set Up TWin	Set Up AWin	Twin Prior 2 Months	Awards Prior 2 Months	Rvst% Prior 2 Months
			8/13/2023	8/13/2023	\$45	\$99	\$45	\$400	8/5/2023	\$2,158	\$672	\$2,203	\$1,750	79%	

AD Group Name: Report - SuspiciousActivityDetail

Report Owner:

Report Name: SuspiciousActivityDetail

Path: MARKETING/DATABASE MARKETING

Data Owner: Marketing

Version: 1.0



Thank you

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