



Date of Report: 31 August 2023

Issuing Laboratory: Gaming Laboratories World Headquarters
600 Airport Road, Lakewood, NJ 08701
732-942-3999

Report Recipient:	Empresa Industrial y Comercial del Estado Administradora del Monopolio Rentístico de los Juegos de Suerte y Azar - Coljuegos Carrera 11 No 93A-85. Bogotá, D.C., Colombia 110221	Arrise Solutions (Malta) Limited Block E, Falcon House High Street, Sliema SLM 1544 Malta
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Jurisdiction: Colombia Online

Technical Standards for Testing:

- Data Model Requirements for Internet Operated Games – October 5, 2022.
- Technical Requirements for Internet Operated Games – October 5, 2022.
- Accord No. 08, Title 1 - September 16, 2020, modified by Accord 02 as of March 30, 2021 and Agreement 02 of 30 September 2022.

Software Suppliers: Arrise Solutions (Malta) Limited
Block E, Falcon House
High Street, Sliema SLM 1544
Malta

Submitting Party: Arrise Solutions (Malta) Limited
Block E, Falcon House
High Street, Sliema SLM 1544
Malta

Products Tested: Big Bass Crash



File Numbers: MO-246-PPD-23-07

Testing Results: **Complies**

Type of Certification Report	Game
Evaluating Laboratories	<ul style="list-style-type: none"> GLI Italy B.V. - Filiale italiana (Sede di Padova) Via Ampezzon, 4G 35010 Villanova di Camposampiero – PD Italy GLI Africa (Pty) Ltd Ground Floor, 7 River Road, River View Park Janadel Avenue, Halfway Gardens Midrand South Africa GLI Europe B.V. Diakenhuisweg 29-35 2033AP, Haarlem The Netherlands GLI UK Gaming Ltd Llys Helyg Ffordd y Llyn, Parc Menai Bangor Gwynedd LL57 4EZ United Kingdom
Description of Product being Certified	Immediate Prize Games

The following table details the types of games supported by the System and their compliance:

Supported Game Type	Applicable	Complies
Games of slot machines or chance	No	Not applicable
Roulette Games	No	Not applicable



Black Jack Games	No	Not applicable
Baccarat Games	No	Not applicable
Bingo Games	No	Not applicable
Poker Games	No	Not applicable
Virtual Games	No	Not applicable
Immediate prize games	Yes	Yes
Bets on real sporting events	No	Not applicable
Bets on real non-sporting events	No	Not applicable
Live Casino	No	Not applicable

Game Software Product Details

GLI tested the following game(s) during the evaluation:

Game Name	Game Identification	Server Version	Client Version	iOS Version	Config Version
1: Big Bass Crash	Big Bass Crash	1.66.123	--	--	--

Game Name	Type of Game
1: Big Bass Crash	Immediate Prize Games

Description of the game requested:

"Big Bass Crash" is a crash game. The objective is to collect the highest possible win before the multiplier crashes. The player can collect the current win at any given moment using the "CASHOUT" or "CASHOUT 50%" buttons.

The player can also choose a value for "Auto Cashout" or "50% Auto Cashout" which will perform automatic cashout, without the intervention of the player, if the current value in game exceeds the value set by the player.

For the control of critical files, the following verification signatures have been verified:

Description	File Name	Location
Game Logic	/bea/domains/casino/servers/Casino/upload/CasinoEAR/app/GameServer-X.XX.XX.war/WEB-INF/lib/critical.jar/com/extremelivegaming/game/critical/BetCodeVO.class	Game Server
SHA-1	1E0C535C5357F06538B84B936AA34670D86BB931	

Description	File Name	Location	
Game Logic	/bea/domains/casino/servers/Casino/upload/CasinoEAR/app/GameServer-X.XX.XX.war/WEB-INF/lib/critical.jar/com/extremelivegaming/game/critical/ResultCodeVO.class	Game Server	
SHA-1	F7FF44C528A4C6F22A90E936CC299C497045D6B3		
Game Logic	/bea/domains/casino/servers/Casino/upload/CasinoEAR/app/GameServer-X.XX.XX.war/WEB-INF/lib/critical.jar/com/extremelivegaming/game/critical/SpaceManRNGObject.class	Game Server	
SHA-1	D060B63B5707666CE67386EB89E95C311BFA2EBF		
Game Logic	SpacemanFirstLevelRngConfiguration	Game Server	
SHA-1	8DB017E2163384EF1A8AEFCEACCB72F4AF5F8BC3		
Game Logic	SpacemanSecondLevelRngConfiguration	Game Server	
SHA-1	868735FD0446E6F561C41AAA9328D1CFCC8BF23D		

The software was tested in an environment consisting of the following components:

Client Side Details	
Delivery Mechanism(s)	Desktop Web-based, Mobile Web-based
Client Installer Package(s)	N/A
Delivery Mechanism Type(s)	HTML5
Testing Details	
Platform(s) and Version(s) Tested With	Pragmatic Play Ltd v1.0
Browser(s) and Version(s) Tested With	Google Chrome Desktop (116.0.5845.97), Google Chrome Google Mobile Emulator (116.0.5845.97)
Flash Version(s) Tested With	N/A
Operating Systems(s) With Version	Windows Enterprise Desktop (21H1)
Mobile Device(s)	N/A
iOS Client(s)	N/A

Game Evaluation

GLI's Evaluation of the game included (but was not necessarily limited to) the following elements to the extent necessary to evaluate the game for compliance with the requirements in the aforementioned Technical Standards:

- Software and System Version Control
- Submitted Documentation Review
- Artwork and Game Rules Review
- Source Code Review
- Game Accounting
- Game Mathematics
- Emulation Testing
- Jurisdictional Requirements Verification
- Game Error/Event Handling
- Functionality Testing

The theoretical Return to Player (%RTP) of the game and the results are listed in the following table:

Game Name	In Game RTP %	Supplier's RTP %	GLI's RTP %
Big Bass Crash	95.50	95.50	95,50

GLI has confirmed that the published RTP values (shown) either:

- lie within expected statistical limits of equivalent values computed from simulated test data, or
- match those derived analytically from a mathematical model of the game.

Details of Live Dealer Studios Evaluated

Not Applicable

Random Number Generator Evaluation

Random Number Generator Data	
Certification	RN-400-PPL-22-02-551_1
Manufacturer	PragmaticPlay Ltd.
Product and Version	PragmaticPlay Ltd PragmaticPlay RNG v2.0
Digital Signatures:	
Kobe	F48P
MD5	BF56D0F3B830FD24E8B0FDD16AED329A
SHA-1	B33E33DA96C37C0EB2D02B3FBF439685FCDA876C
Type of Random Number Generator	Software
Random/Pseudo Random	Cryptographically Strong RNG
Shared RNG	Yes
Algorithm	Java SecureRandom SUN version 1.7 NativePRNG
Re-seeding	Reseeded with local system entropy (/dev/urandom) every 10,000 samples.
Length of Space	32 bit
List of Statistical Tests	Runs, Serial Correlation, Interplay Correlation, Adjacency Blocks, Adjacency Max-Min, Adjacency High-Low, Duplicates, Coupon Collector's, Overlaps, Permutation, Total Distribution, Total Distribution by Position, Count of Counts, DieHard



Details of the Base Platform Evaluated

Not Applicable

Base Platform Evaluation

Not Applicable

Details of the Inspection Module Evaluated

Not Applicable

Inspection Module Evaluation

Not Applicable

Details of the Sportsbook Platform Evaluated

Not Applicable

Sportsbook Platform Evaluation

Not Applicable

Sportsbook Game Evaluation

Not Applicable

Security Testing Details

Not Applicable

Conditions of Evaluation

Subject to the limitations indicated in this section, it is GLI's position that the evaluated game elements indicated in this report comply with the aforementioned technical standards.

Verify+ by Kobetron™ - Verification Procedure

1. Open Verify+ by Kobetron™.
2. Select the 'File' or 'Directory' radio button.
3. Select the 'Browse' button and then choose the file or the top directory for which a signature is being requested.
4. Click the "Verify" button.
5. The current file/directory being checked will be displayed in the window.
6. The program will generate the aforementioned signatures and display the results.



Registration Number of Accreditation applicable to this report:

A2LA 2428.05

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If you should have any questions regarding this information, please feel free to contact our office.

Sincerely,

A handwritten signature in black ink, appearing to read "CM Gallo", is positioned above the printed name.

Christine M. Gallo

Senior Vice President, Quality and Technical Compliance