



Date of Report: 25 July 2023

Issuing Laboratory: GLI Europe B.V.
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The Netherlands

Report Recipient: Arrise Solutions (Malta) Limited
Block E, Falcon House
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Malta

Jurisdiction: Bulgaria Online

Technical Standards for Testing:

- Decree № 153 of April 12, 2021 on the adoption of an Ordinance on the terms and conditions for entry of laboratories in the register under Art. 20, para. 1, item 4 of the Gambling Act, on the requirements for testing and the procedure for carrying out inspections of gaming equipment, jackpot systems, gaming software and communication equipment and self-service devices for organizing lottery games
- DECISION № 31 OF 1 FEBRUARY 2021 for adoption of an Ordinance on the general technical and functional requirements to the gaming software and communication equipment for online betting and games by other electronic means of communication



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

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Building B, 2nd floor,
District 5, PC 050911,
Romania

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

Products Tested: Spaceman

File Numbers: MO-401-PPD-22-02

Testing Results: **Complies**



Product Details

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

Component/Game Name	Program ID	Server Version	Client Version	iOS Version	Config Version
1: Spaceman	N/A	1.66.123	--	--	--

Software

A description of the submitted software is listed below.

1. Component/Game Name:

Spaceman

"Spaceman" is crash game. The objective is to collect the highest possible win before the hero 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 set by the player value.

For version-control of the software, GLI gathered the following signatures:

Description	Game Name	File/Directory Name	Version
N/A	Spaceman	/bea/domains/casino/servers/Casino/upload/CasinoEAR/app/GameServer-X.XX.XX.war/WEB-INF/lib/critical.jar/com/extremelivegaming/game/critical/BetCodeVO.class	1.66.123
SHA-1	1E0C535C5357F06538B84B936AA34670D86BB931		
MD5	1A20AAF103CD5F2427F0BCF12A2D1694		
N/A	Spaceman	/bea/domains/casino/servers/Casino/upload/CasinoEAR/app/GameServer-X.XX.XX.war/WEB-INF/lib/critical.jar/com/extremelivegaming/game/critical/ResultCodeVO.class	1.66.123
SHA-1	F7FF44C528A4C6F22A90E936CC299C497045D6B3		
MD5	65C73A564769AB8F1999C94DE478C832		
N/A	Spaceman	/bea/domains/casino/servers/Casino/upload/CasinoEAR/app/GameServer-X.XX.XX.war/WEB-INF/lib/critical.jar/com/extremelivegaming/game/critical/SpacemanRNGObject.class	1.66.123



Description	Game Name	File/Directory Name	Version
SHA-1	D060B63B5707666CE67386EB89E95C311BFA2EBF		
MD5	9B436DAC91C2A33A8B9E629D9BF5A239		
N/A	Spaceman	SpacemanFirstLevelRngConfiguration	1.66.123
SHA-1	8DB017E2163384EF1A8AEFCEACCB72F4AF5F8BC3		
MD5	EC37DA5649224F2FE43DB3136C3A5E7A		
N/A	Spaceman	SpacemanSecondLevelRngConfiguration	1.66.123
SHA-1	868735FD0446E6F561C41AAA9328D1CFCC8BF23D		
MD5	081386A32117C0146BC6D23B55A57C1A		



Game Information

GLI performed an independent calculation of the theoretical Percentage Return to Player (%RTP) values of the game and the results are listed in the table below.

Game Name	Supplier's Paytable ID	In Game RTP %	Supplier's RTP %	GLI's RTP %
Spaceman	N/A	95.50%	95.50%	95.50%

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

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

Notes

GLI's compliance evaluation of the software was related only to the technical scope of work elements discussed herein. This specifically excludes any other features or functions provided by the submission not related to these elements. Any sections of the aforementioned Technical Standards specific to the Random Number Generator (RNG), Platform or Financial Reporting were outside of the scope of this software and/or integration evaluation.

Testing was completed in a test environment where the game is integrated into the platform using the RNG as documented in GLI report 2018PPL079RNG401 .

GLI's Evaluation of the software included (but was not necessarily limited to) the following elements to the extent necessary to evaluate the software 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
- Deployment Verification
- Game Error/Event Handling
- Functionality Testing
- Artwork and Interface Testing



Verification Procedures

GLI generated the checksums of the files and/or directories using the methods stated below:

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.

Test Environment

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
Browser(s) and Version(s) Tested With	Google Chrome Desktop (114.0.5735.199), Google Chrome Google Mobile Emulator (114.0.5735.199)
Operating Systems(s) With Version	Windows Enterprise (10 22H2)
Mobile Device(s)	N/A
iOS Client(s)	N/A



RvA Registration Number of Accreditation applicable to this Report:	
Testing	L372
Products	C577

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Subject to the Conditions of Evaluation, GLI has determined that the evaluated elements comply with the requirements of the applicable Technical Standard(s) of the aforementioned jurisdiction.

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

Sincerely,

Olga Sobocinska
Senior Manager Engineering Delivery

Report Type	Evaluation and Certification
Request Date	28 June 2022
Evaluation Period	04 July 2023 / 21 July 2023
Evaluating Laboratories	<ul style="list-style-type: none"> • GLI Italy B.V. - Filiale italiana (Sede di Padova) Via Ampezzon, 4/G 35010 Villanova di Camposampiero - PD Italy • GLI Africa (Pty) Ltd 7 River Road, River View Park Janadel Avenue, Halfway Gardens Midrand, South Africa • GLI Italy B.V. - Filiale italiana (Sede di Bologna) Via Maestri del Lavoro, 3 40138 Bologna - BO Italy • GLI UK Gaming Ltd Llys Helyg Ffordd y Llyn, Parc Menai Bangor Gwynedd LL57 4EZ United Kingdom • GLI Europe B.V. Diakenhuisweg 29 – 35 2033 AP Haarlem The Netherlands
Internal methods used reference	WI-EN-013, WI-EN-010, WI-EN-052, PC-TC-001, SOP-MA: Math, WI-EN-023, WIP 24