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Report Recipient:	SA Technology N.V. Abraham de Veerstraat 9 Willemstad, Curaçao
Software Supplier:	SA Technology N.V. Abraham de Veerstraat 9 Willemstad, Curaçao
Submitting Party:	SA Technology N.V. Abraham de Veerstraat 9 Willemstad, Curaçao
Jurisdiction:	Isle of Man
Technical Standards for Testing:	The Gambling Supervision Commission's Statutory Document Number 731/07 Online Gambling (Systems Verification) (No.2) Regulations 2007 , laid before Tynwald 16 October 2007, coming into operation 31 August 2007
Product Tested:	Andar Bahar, Blackjack, Pok Deng, Xóc Đĩa, Teen Patti 20-20
File Number:	MO-127-SA4-24-01
Report Date:	29 July 2024
Evaluation Period:	18 March 2024 to 17 July 2024
Testing Result:	Subject to the Conditions of Evaluation listed in this report: Recommended for Approval

Software Product Details

GLI tested the following games during the SA Technology N.V. (hereafter, SA4) game evaluation:

- Andar Bahar, Blackjack, Pok Deng, Xóc Đĩa, Teen Patti 20-20

A description of the submitted games is given below.

1. “Andar Bahar”

“Andar Bahar” is an online live dealer card game played with a standard deck of 52 cards. The game offers various bet types with odds to predict the card is drawn from Andar spot or Bahar spot and predict the result for various bet types.

2. “Blackjack”

“Blackjack” is an online live dealer card game played with 8 decks of 52 cards. The objective of the game for the player is to achieve a higher point total in the player hand(s) than the dealer hand without the point total exceeding 21.

3. “Pok Deng”

“Pok Deng” is an online live dealer card game played with 8 decks of 52 cards. Each of the dealer and player hands receives two cards per game round and a point is computed for each hand based on its card combination. The objective of the game for the player is to achieve a higher point in the player hand(s) than the dealer hand.

4. “Xóc Đĩa”

“Xóc Đĩa” is a Vietnamese game played with 4 tokens inside a shaker. Each token has a red side and a white side. The objective of the game is to predict the combination of face-up coloured sides after shaken.

5. “Teen Patti 20-20”

“Teen Patti 20-20” is an online live dealer card game played with a standard deck of 52 cards. Three cards are dealt to Player A and Player B respectively in each game. The objective of the game is to predict which hand is the winning hand by the ranking of poker hands.

For version-control of SA4 “Andar Bahar, Blackjack, Pok Deng, Xóc Đĩa, Teen Patti 20-20” games, GLI gathered Secure Hash Algorithm One (SHA-1) checksums of the following software files:

File Name	SHA-1 Checksum
cpprest140_2_9.dll	8579 FC2F EFCC 590F FEE7 C03C B79B C549 F6A5 F7C8
jsoncpp.dll	9E28 C54B 59D7 2D1D 4ED1 FCE2 EC99 E606 DEDC A596
WebGameServer.exe	6BFE BCF4 F6E2 584E B6D8 FDCB 2846 8740 D625 1697

The games were tested in an environment consisting of the following components:

Client-Side Details	
Delivery Mechanism(s):	Desktop Web-based
Delivery Mechanism Type(s):	HTML5
Testing Details	
Platform(s) and Version(s) Tested With:	https://gliclientlogin.s3.ap-east-1.amazonaws.com/index.html (frontend) https://99sabo3.sai.slgaming.net/ (backend)
Browser(s) and Version(s) Tested With:	Microsoft Edge Version 122.0.2365.92
Operating System(s) with Version:	Windows 10 Enterprise (64-Bit)

Game Evaluation

GLI's game Evaluation of SA4's "Andar Bahar, Blackjack, Pok Deng, Xóc Đĩa, Teen Patti 20-20" games 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 Version Control**
 - Supervised Build and Install, and
 - Gathering of Checksums.
- **Game Payouts Evaluation**
 - Submitted Documentation Review,
 - Artwork and Game Rules Review,
 - Source Code Review,
 - Game Accounting,
 - Game Mathematics,
 - Emulation Testing, and
 - Verification of Jurisdictional Requirements.

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

Game Name	Supplier's Paytable ID	Supplier's Submitted %RTP *	GLI's Game %RTP	GLI's Method of Analysis
Andar Bahar	N/A	76.21% - 98.59%	76.21% - 98.59%	Analytical
Blackjack	N/A	89.64% - 99.39%	89.64% - 99.39%	Analytical
Pok Deng	N/A	89.64% - 98.75%	89.64% - 98.75%	Analytical
Xóc Đĩa	N/A	93.75% - 98.75%	93.75% - 98.75%	Analytical
Teen Patti 20-20	N/A	5.64% - 97.50%	5.64% - 97.50%	Analytical

Conditions of Evaluation

GLI's compliance evaluation of the SA4 "Andar Bahar, Blackjack, Pok Deng, Xóc Đĩa, Teen Patti 20-20" game is subject to the following limitations:

- GLI's compliance evaluation of SA4 "Andar Bahar, Blackjack, Pok Deng, Xóc Đĩa, Teen Patti 20-20" games 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 game evaluation.
- GLI only tested the requirements related to "Andar Bahar, Blackjack, Pok Deng, Xóc Đĩa, Teen Patti 20-20". During the GLI evaluation, SA4 did not provide any Platform or Back office for testing. Hence this game must be operated under jurisdiction approved platform/back office which can fulfil and provide all the jurisdiction requirements of platform/back office.
- Although this game may be configured for multi-national languages, only the English language version was evaluated.
- All testing results are based on information and materials submitted by SA4 to GLI throughout the duration of the project. There are inherent limitations to performing compliance testing within a laboratory environment, and within a finite time period. As a result of these limitations, anticipating all possible configurations, scenarios and events which could potentially occur in the live environment was not feasible.
- GLI generated the checksums of the software and source code files using the methods stated below:

Verify+ by Kobetron™ - Verification Procedure:

1. Open Verify+ by Kobetron™
2. Select the 'File' radio button
3. Click "Browse", specify the file you wish to signature and click the "Open" button
4. If a different seed is needed, click the 'Options', then 'General Options' and enter a new seed
5. If needed, other File options can be found by clicking 'Options' then 'File Options'
6. Click the "Verify" button
7. The current file being checked will be displayed in the window
8. The program will generate the aforementioned signatures and display the results



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Subject to the limitations outlined in the **Conditions of Evaluation**, it is GLI's position that the evaluated elements of SA4 "Andar Bahar, Blackjack, Pok Deng, Xóc Đĩa, Teen Patti 20-20" games comply with the requirements of the applicable Technical Standard. Accordingly, GLI recommends the approval of the SA4 "Andar Bahar, Blackjack, Pok Deng, Xóc Đĩa, Teen Patti 20-20" games, for use within the jurisdiction of Isle of Man.

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

Sincerely,

Mr. Nathan Gee
Manager of Compliance
GLI Australia