



Test report

Product name : Cash Cubes (HTML5-Mobile-Tablet)

Jurisdiction : Malta

Applicant : Virtue Fusion Ltd
Test institute : Trisigma B.V.
Type of product : Slot game

Author: S. Schoonderbeek Authorised by: Ing. R. Hubregtse 28-11-2016

Quality Manager

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Test report number: 3s.17.115_MT.R0





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1. TEST INSTITUTE

Trisigma B.V. (here after Trisigma) provides compliance and type approval services to the gaming industry and authorities. The Trisigma test labs are located in The Netherlands and have extensive facilities for testing and approval of online and land based gaming systems. Trisigma has been accredited by the Dutch Council of Accreditation for both standards ISO/IEC 17020 (with identification I254) and ISO/IEC 17025 (with identification L531) within the scope of compliance testing and examination of gaming systems. It is Trisigma's policy to carry out all activities according to these high quality standards in order to assure the international recognition of Trisigma certifications, reports and declarations.

This report presents the Trisigma final conclusion of compliance, the scope of examination, the specific identification of the gaming system and an overview of the applicable requirements including the appraisal with regard to the gaming system under examination.

This report has been constructed under the supervision and responsibility of Trisigma's Quality Manager. Every effort has been made to ensure the quality and accuracy of the information contained in this report. If errors or omissions are discovered, please contact us with details. Trisigma B.V. reserves the right to issue revisions of this test report if additional information is presented or discovered.

2. TEST METHODS

Trisigma examines gaming systems using accredited and recognized assessment methods. These methods cover all applicable components and characteristics of the product under examination.

Qualified test engineers carry out a comprehensive compilation of test methods using documentation review, measurements, evaluation of calculations and simulations, statistical tests, functional tests, visual assessment and source code analyses and supervised builds in order to examine the product from a requirements point of view. These test methods comprises the functional and statistical behavior of the gaming system.

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3. GENERAL REPORT DATA

Report number	3s.17.115_MT.R0
Jurisdiction	Malta
Requirements	Remote Gaming Regulations Subsidiary Legislation 438.04
Additional regulations or directions	Return to Player Directive 2016 Form MGA/51/2011-13
Test period	November 2016
Project Engineer	S. Schoonderbeek
Revision information	-
References	3s.15.597_UK.R0 Report RNG

4. APPLICANT DATA

Company name	Virtue Fusion Ltd
Address	10 Jamestown Road NW1 7BY LONDON UNITED KINGDOM
Contact	Mr G. Flinders

5. CONCLUSION AND RECOMMENDATION

The game complies with the Malta Remote Gaming Regulations.

It is the recommendation of Trisigma that the game be approved for use in the jurisdiction of Malta.

This was a game only compliance test. Platform and RNG have been separately tested.

The game has been assessed on the English language version.

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6. GAME INFORMATION

Type of game	Slot game
Game rules	Cash Cubes is 5-reel, 3-row video slot game with 20 win lines.
Jackpot	No
Game software identification	16.5.0
Minimum bet	£ 0.01
Maximum bet	£ 100.00
Target percentage RTP	95.52%
Maximum autoplay games	100

7. PLATFORM AND TEST EQUIPMENT INFORMATION

Platform information:

Supplier	Virtue Fusion Ltd
Version	16.5.0

The game was tested with the following equipment:

Device	os	Browser
Samsung Galaxy S4	Android (version 5.0.1)	Android
Apple iPhone 6 Plus	iOS (version 10.1.1)	Safari
Samsung Galaxy Tab S2	Android (version 6.0.1)	Android
Apple iPad Air 2	iOS (version 10.1.1)	Safari

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8. REQUIREMENTS - TEST RESULTS OVERVIEW

Requirements within this scope are included in this test results overview. Where requirements are applicable to either game or platform these requirements are included in this test result overview, and are marked 'Not Applicable' when compliance is determined only by the platform.

Article	rticle Requirement Text					
2. Definitions	In these regulations, unless the context otherwise requires: "remote betting" means the negotiation or receiving of any bet by a means of distance communications; "remote gaming" means any form of gaming by means of distance communications; "remote gaming equipment" means a machine or other device whether electronic, electrical or mechanical, computer software, or any other mechanism, device or item, used or suitable for use, in the operation of an authorised game and which is situated in Malta;					
	Remarks/Findings: This is a definition only.					
25. Conformity of gaming system						
	Remarks/Findings: This is an explanatory text only.					
44. Display of counters (1)	Where the game is displayed on a screen the licensee shall cause to be displayed on the screen, at all times during the game, a counter which automatically updates and shows the player's account balance.					
	Remarks/Findings: The required information is presented correctly.					
44. Display of counters	The licensee shall also make available to every player an automatic reality check at intervals of one hour.					
(2) (a)	Remarks/Findings: This is a game only test report. Platform functions have not been tested.					
44. Display of counters	The automatic reality check shall:	Not Applicable				
(2) (b)	Remarks/Findings: This is a game only test report. Platform functions have not been tested.	, r. p pca				
44. Display of counters	suspend play;	Not Applicable				
(2) (b) (i)	Remarks/Findings: This is a game only test report. Platform functions have not been tested.					
44. Display of counters	clearly indicate for how long the player has been playing;					
(2) (b) (ii)	Remarks/Findings: This is a game only test report. Platform functions have not been tested.	Applicable				

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44. Display of counters	display the player's winnings and losses during such period of time;		
(2) (b) (iii)	Remarks/Findings: This is a game only test report. Platform functions have not been tested.		
44. Display of counters	require the player to confirm that the player has read the message;		
(2) (b) (iv)	Remarks/Findings: This is a game only test report. Platform functions have not been tested.		
44. Display of counters	give an option to the player to end the session or return to the game.	Not Applicable	
(2) (b) (v)	Remarks/Findings: This is a game only test report. Platform functions have not been tested.	4	
45. Indication of currency	All amounts displayed relating to wagers and winnings shall be quoted with the symbol of currency that the player is playing with.	PASS	
	Remarks/Findings: The required information is presented correctly.		
46. Full screen games restriction	Without prejudice to anything contained in regulation 45, full screen games cannot be offered to players unless a real time clock is displayed on the screen at all times and players are given the facility to exit the game.		
	Remarks/Findings: Where the gaming system uses full screen client applications, the time of day is displayed on the game screen at all times and the player is able to exit the game.		
46A. RTP restriction	(1) A licensee offering games using repetitively generated random selection for determining winning combinations to players shall ensure that, in accordance with the way in which the game is designed, the licensee shall pay out on average a prize amounting to ninety two per centum (92%) or more of the money or money's worth wagered, or any such higher percentage as may be stipulated through a condition of the licence. (2) The Authority may issue a directive regulating the manner in which licensees are required to report, certify or comply with the requirements established in this regulation, and, or exempt types or categories of games from the requirements of this regulation: Provided that for the purposes of calculating and ensuring compliance with the percentage referred to in sub-regulation (1), a licensee shall take into consideration the transactions occurring from the 1st of January 2015 onwards.	PASS	
	Remarks/Findings: Research demonstrates that the game shall pay out on average a prize above 92% of the money's worth wagered.		
Technical requirement for	The gaming system must:		
gaming system	Remarks/Findings: This is an explanatory text only.		
1. Technical requirement for	faithfully follow the game rules published by the operator; and		
gaming system (a)	Remarks/Findings: The game tested operates under one fixed set of rules. The game's rules and RTP are not configurable by the Player or via the Admin System.		
Technical requirement for gaming system	provide over time no more than the expected house advantage to the operator.	PASS	
(b)	Remarks/Findings: The expected house advantage is validated by use of simulation.		





2. Technical	Both the gaming and financial transactions must be congruent and secure.	Not	
requirement for gaming system	Remarks/Findings: This is a game only test report. Platform functions have not been tested.	Applicable	
3. Technical requirement for	The gaming system must satisfy the following criteria for randomness, following Schneier:		
gaming system	Remarks/Findings: This is an explanatory text only.		
3. Technical requirement for	the data must be randomly generated, passing appropriate statistical tests of randomness;	PASS	
gaming system (a)	Remarks/Findings: Research demonstrates that events of chance are statistically random.		
3. Technical requirement for gaming system	the data must be unpredictable, i.e. it must be computationally infeasible to predict what the next number will be, given complete knowledge of the algorithm or hardware generating the sequence, and all previously generated numbers;	Not Applicable	
(b)	Remarks/Findings: This is a game only test report. RNG has not been tested.		
3. Technical requirement for gaming system	the series cannot be reliably reproduced, i.e. if the sequence generator is activated again with the same input (as exactly as is reasonably possible) it will produce two completely unrelated random sequences.		
(c)	Remarks/Findings: This is a game only test report. RNG has not been tested.		
4. Technical requirement for gaming system	The outcome of any game event, and the return to the player, must be independent of the CPU, memory, disk or other components used in the playing device used by the player.		
	Remarks/Findings: The game outcome is independent of the equipment of the participant.		
5. Technical requirement for gaming system	The game or any game event outcome must not be affected by the effective bandwidth, link utilisation, bit err or rate or other characteristic of the communication channel between the gaming system and the playing device used by the player.		
	Remarks/Findings: The game outcome is determined at server side and is independent of communication characteristics or end user device.		
6. Technical requirement for gaming system	The gaming system must be able to display for each game the following information on the current page or on a page directly accessible from the current page via a hyperlink:		
	Remarks/Findings: This is an explanatory text only.		
6. Technical requirement for gaming system	the name of the game;	PASS	
(a)	Remarks/Findings: The required information is displayed on the artwork.		
6. Technical requirement for	ement for restrictions on play;		
gaming system (b)	Remarks/Findings: The required information is displayed in the game information.		





6. Technical requirement for	instructions on how to play, including a pay-table for all prizes and special features;	PASS
gaming system (c)	Remarks/Findings: The required information is displayed in the game information.	
6. Technical requirement for	the player's current account balance;	
gaming system (d)	Remarks/Findings: The required information is displayed on the artwork.	
6. Technical requirement for	unit and total bets permitted;	
gaming system (e)	Remarks/Findings: The required information is displayed on the artwork.	
6. Technical requirement for	the rules of the game.	PASS
gaming system (f)	Remarks/Findings: The required information is displayed in the game information.	
6. Technical requirement for	information relating to the average winnings paid out to players of the game over a period of time or a particular number of plays.	PASS
gaming system (g)	Remarks/Findings: The required information is displayed in the game information.	

TESTING RVA I 531

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APPENDIX A: Game rules

Cash Cubes Slot

Cash Cubes Exploding Reels Slot

Cash Cubes Slot is a five reel, twenty-line slot with an Exploding Reels feature.

Cash Cubes Slot Exploding Reels Feature

All symbol combinations defined in the pay table will trigger the Exploding Reels feature during game play. All winning symbol combinations are evaluated and values are displayed in the "Won' field.

All winning symbols in the combination disappear. All symbol positions on each reel are filled as symbols tumble from above, in sequence, to fill the empty spaces. The game screen is re-evaluated for symbols in winning combinations and values are displayed in the 'Won' field. At the point when no winning symbol combinations are created and all wins are accumulated, winnings are credited to the user's account balance.

The Exploding Reels feature remains active until no winning symbol combinations are created.

Cash Cubes Slot Pay Table

Winnings paid out on the Cash Cubes Slot are dependent on the symbols displayed on the line once the reels have come to a stop. 2, 3, 4 or 5 matched symbols pay the following multiples of the stake amount:

Symbol	Payout	Payout			
Symbol	2 matching symbols	3 matching symbols	4 matching symbols	5 matching symbols	
Jack	x0	x20	x25	x30	
Oueen	x0	x25	x30	x40	

Queen x0 x25 x30 x40

Game Help

Balance: £398.00 Bet: 20 x £0.10 = £2.00 Win: 09:1

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Cash Cubes Slot Pay Table

Winnings paid out on the Cash Cubes Slot are dependent on the symbols displayed on the line once the reels have come to a stop. 2, 3, 4 or 5 matched symbols pay the following multiples of the stake amount:

Symbol	Payout				
Syllibol	2 matching symbols	3 matching symbols	4 matching symbols	5 matching symbols	
Jack	x0	x20	x25	x30	
Queen	x0	x25	x30	x40	
King	x0	x30	x40	x50	
Ace	x0	x35	x55	x75	
Orange Cube	x0	x40	x60	x125	
Green Cube	x0	x50	x75	x200	
Purple Cube	x0	x60	x100	x750	
Red Cube	x20	x75	x150	x1000	
Four Cubes	x25	x100	x200	x2500	
Cash Cubes	x35	x150	x250	x5000	

Game Rules

The following game rules apply:

- $\bullet~$ You can bet up to £5.00 per line creating a total maximum bet of £100 per spin.
- The minimum bet is £0.01

Game Help

Balance: £398.00 Bet: 20 x £0.10 = £2.00 Win: 09:15

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Game Rules

The following game rules apply:

- You can bet up to £5.00 per line creating a total maximum bet of £100 per spin.
- . The minimum bet is £0.01
- The maximum win amount for this game is £30k
- All wins pay from left to right. Any winning combination of matched symbols must start from reel 1 to 5 consecutively.
- · Winnings are paid out on the highest combination on each enabled line only.
- Exploding Reels will activate on winning lines only. In the event of a winning line the winning symbols will be removed and symbols will fall from above
 to fill the space. This set of symbols will then be evaluated for winning lines and so on. The Exploding Reels feature will continue until there are no
 longer any winning symbol combinations.
- · Players also have the option to Autobet. The autobet function will only stop when the stop button is pressed
- · We reserve the right to amend these game rules at any time.

The RTP for the Cash Cubes Slot is 95.52% (based on a game with the maximum number of lines selected).

Malfunction

In the case of any malfunction, all bets and winnings are null and void.

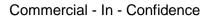
*All amounts shown here are in the base currency used on the platform which is GBP. We use a currency display rate conversion which may vary depending on the actual exchange rate at the time. The display rate may also vary from the actual exchange rate.

Game Version 16.5.0, 29/11/2016

Game Help

Balance: £398.00 Bet: 20 x £0.10 = £2.00 Win: 09:15

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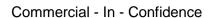






APPENDIX B: Game software identification

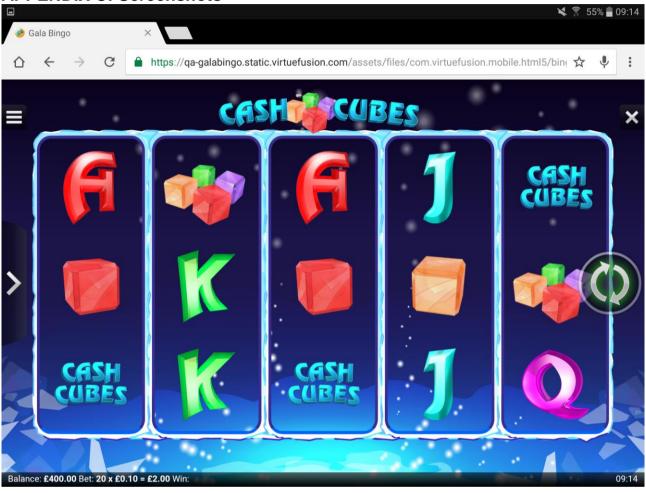
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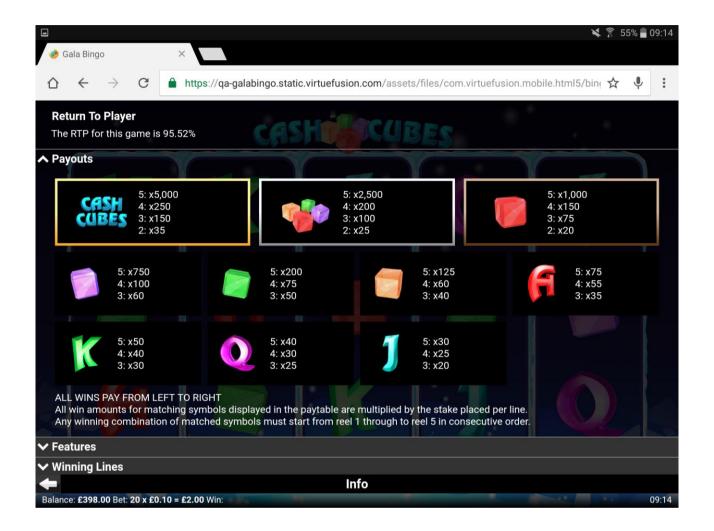
APPENDIX C: Screenshots



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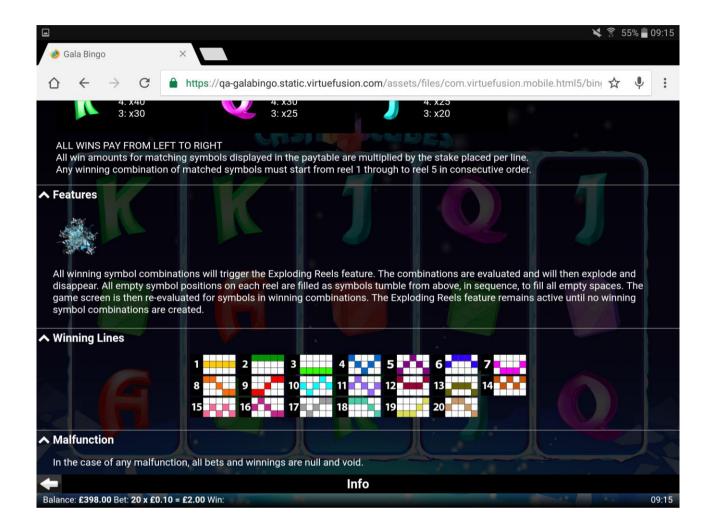




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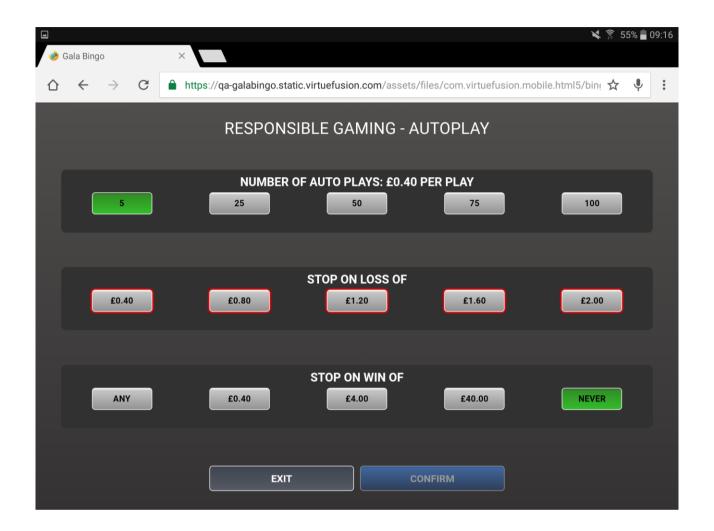




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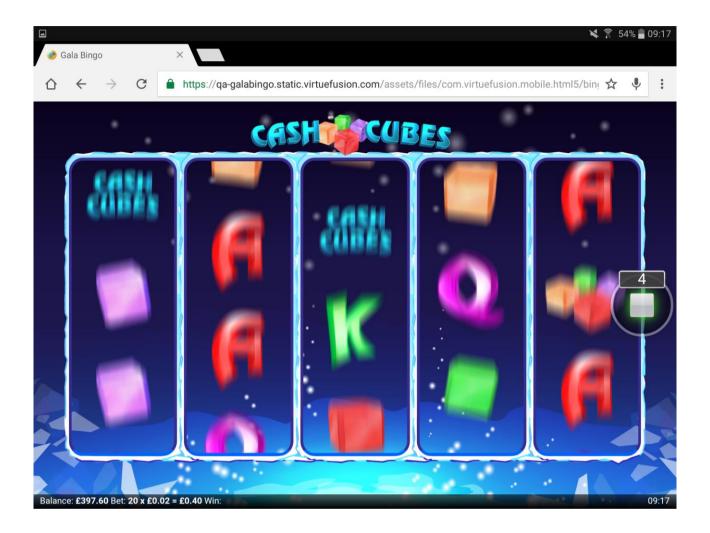




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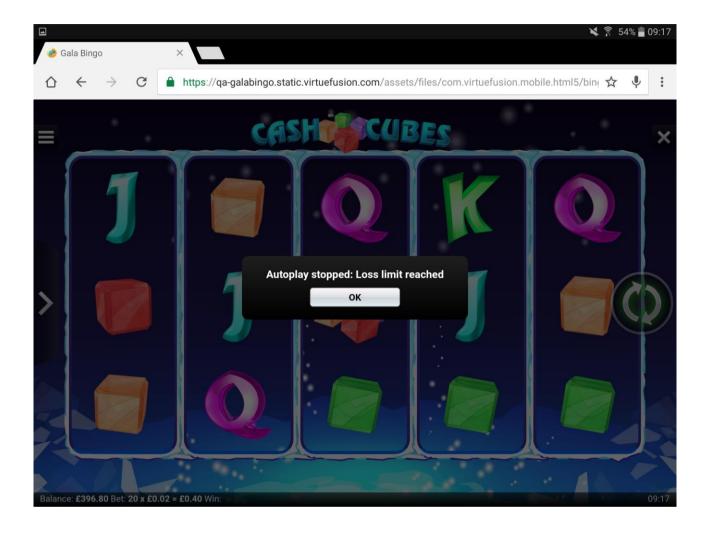




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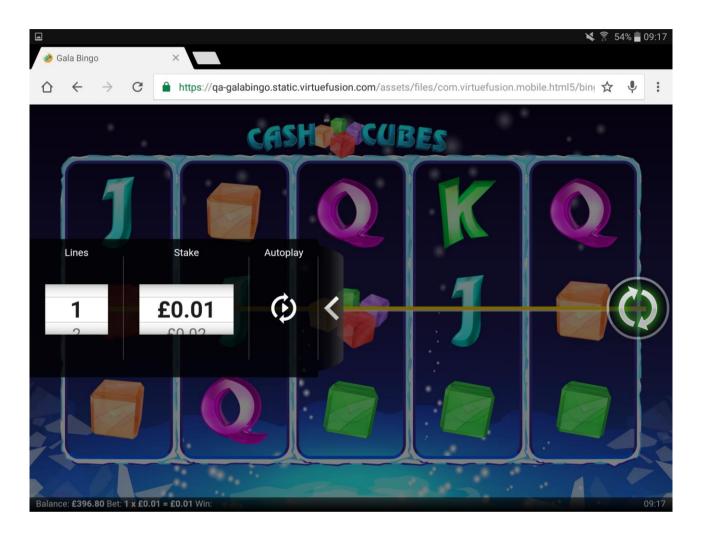




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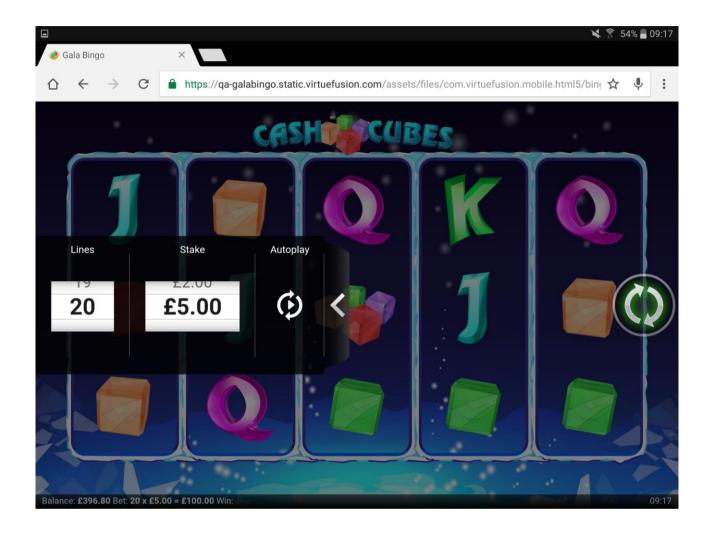




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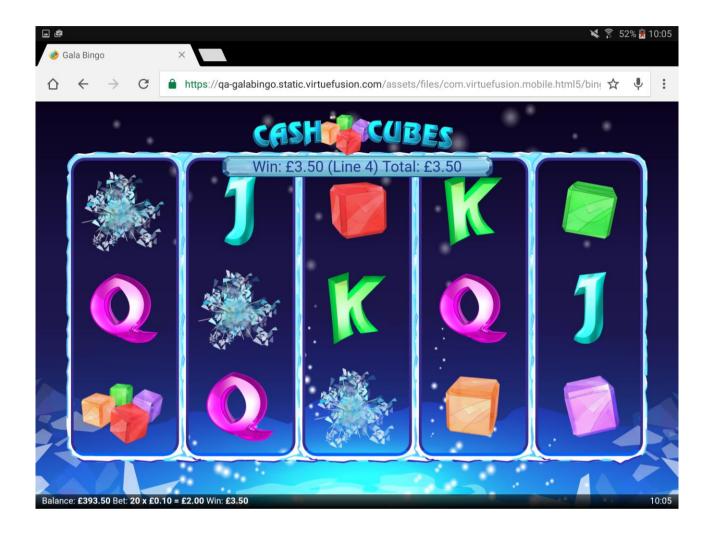




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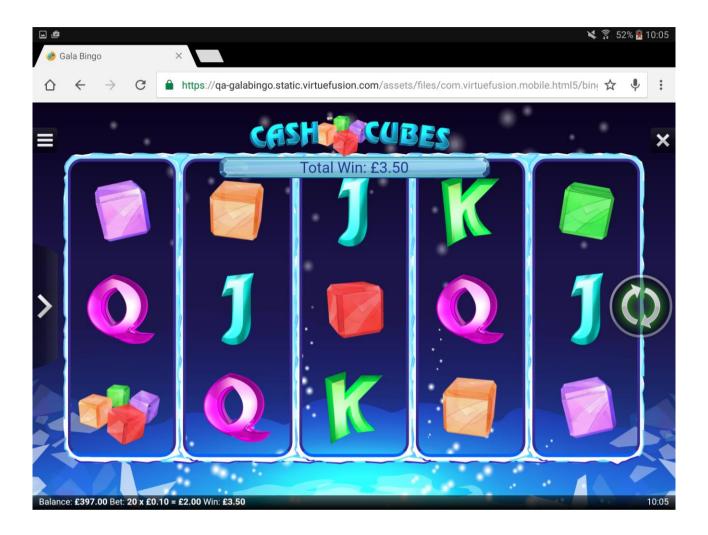




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APPENDIX D: Reels

Outcome	Reel 0	Reel 1	Reel 2	Reel 3	Reel 4
	King	Ace	Jack	Cash Cubes	Cash Cubes
	Purple Cube	Jack	Purple Cube	Purple Cube	Ace
	Jack	Purple Cube	Orange Cube	Queen	Queen
	Red Cube	Queen	Queen	King	King
	Green Cube	Green Cube	Red Cube	Ace	Orange Cube
	Queen	King	King	Queen	Jack
	Orange Cube	Ace	Queen	Jack	Green Cube
	Ace	Orange Cube	Ace	Orange Cube	King
	Purple Cube	Purple Cube	Green Cube	Queen	Ace
	Jack	Jack	Purple Cube	Green Cube	Queen
	Green Cube	Four Cubes	Jack	Jack	Jack
	Queen	Queen	Green Cube	King	Four Cubes
	Four Cubes	Red Cube	Purple Cube	Ace	Ace
	King	King	Queen	Queen	Jack
	Purple Cube	Green Cube	King	Jack	Purple Cube
	Queen	Ace	Ace	Four Cubes	Queen
	King	King	Queen	King	Green Cube
	Orange Cube	Cash Cubes	Jack	Jack	King
	Jack	Jack	Cash Cubes	Green Cube	Jack
	Cash Cubes	Green Cube	King	Queen	Purple Cube
	Queen	Queen	Green Cube	Purple Cube	Queen
	Ace	Purple Cube	Orange Cube	Jack	Red Cube
	Green Cube	Jack	Jack	Red Cube	Jack
	King	Orange Cube	Green Cube	Ace	Ace
	Ace	King	Four Cubes	Jack	Queen
	Queen	Ace	Queen	Orange Cube	Orange Cube
	Jack	Queen	Orange Cube	Ace	Jack
	Purple Cube	Jack	Ace	King	King
	Red Cube	Four Cubes	King	Purple Cube	Green Cube
	Jack	King	Red Cube	Red Cube	Purple Cube
	Four Cubes	Red Cube	Jack	Queen	Queen
	Queen	Jack	Ace	Green Cube	Jack
	Ace	Purple Cube	Purple Cube	Ace	
	Orange Cube	Green Cube	Queen	King	
	King	Queen	Jack	Purple Cube	
	Green Cube	Orange Cube	King	Jack	
	Jack	King	Ace	Green Cube	
	Purple Cube	Ace	Queen	Queen	
	King	Queen			
	Ace	Jack			
	Queen	Purple Cube			
	Jack	Queen			