

Test report

Product name	: Mafia Millions (HTML5)
Jurisdiction	: United Kingdom
Applicant	: Virtue Fusion Ltd
Test institute	: Trisigma B.V.
Type of product	: Slot game

Author: S. Schoonderbeek

Authorised by: Ing. R. Hubregtse 15-09-2017

Quality Manager



Copyright © Trisigma B.V., Geldermalsen, the Netherlands. All rights reserved. The contents of this report may only be transmitted to third parties in its entirety. Application of the copyright notice and disclaimer is compulsory.

Trisigma B.V. disclaim liability for any direct, indirect, consequential or incidental damages that may result from the use of the information or data, or from the inability to use the information or data.

TABLE OF CONTENTS

1. TEST INSTITUTE	3
2. TEST METHODS.....	3
3. GENERAL REPORT DATA.....	4
4. APPLICANT DATA.....	4
5. CONCLUSION AND RECOMMENDATION	5
6. GAME INFORMATION	5
7. PLATFORM AND TEST EQUIPMENT INFORMATION	6
8. REQUIREMENTS – TEST RESULTS OVERVIEW	7
APPENDIX A: Game rules	30
APPENDIX B: Game software identification.....	34

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.

3. GENERAL REPORT DATA

Report number	3s.17.532_UK-GI.R0
Jurisdiction	United Kingdom
Requirements	Remote gambling and software technical standards July 2015
Additional regulations or directions	<p>Gambling Commission website: http://licensingadvertisingact.blogspot.nl/2015/05/56we-have-published-new-consolidated.html: Additional guidance for RTS 8 (Auto-play); RTS 12 (Financial Limits) and RTS 13B (Reality Checks)</p> <p>Testing strategy for compliance with remote gambling and software technical standards, May 2016.</p>
Test period	August - September 2017
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 United Kingdom Remote gambling and software technical standards.

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

The game has been tested according with the procedure for testing of the Testing strategy for compliance with remote gambling and software technical standards, May 2016.

The game has been assessed on the English language version.

NOTE

Software that meets the requirements of the UK RTOS is considered by the Gibraltar Gambling Commissioner's office to be compliant with the requirements of the Gibraltar RTOS.

6. GAME INFORMATION

Type of game	Slot game
Client delivery channel	HTML5 browser based for Mobile / Tablet / Desktop (PC)
Game rules	Mafia Millions is a 5-reel, 3-row video slot game with 20 win lines.
Jackpot	Yes
Game software identification	17.4
Minimum bet	At operator's discretion
Maximum bet	At operator's discretion
Target percentage RTP	The RTP is 93% including 1% as the default jackpot contribution percentage for the game. Individual operators may vary the jackpot contribution percentage for the game, resulting in a different RTP.
Maximum autoplay games	100

7. PLATFORM AND TEST EQUIPMENT INFORMATION

Platform information:

Supplier	Virtue Fusion Ltd
Version	17.4.0

The game was tested with the following equipment:

Device	OS	Browser
Samsung Galaxy S4	Android (version 5.0.1)	Chrome
Apple iPhone 6 Plus	iOS (version 10.2.1)	Safari
Samsung Galaxy Tab S2	Android (version 6.0.1)	Chrome
Apple iPad Air 2	iOS (version 10.2.1)	Safari
PC HP ProDesk 490 G1 MT Intel i7 (12GB RAM)	Windows 10 Pro (64bit)	Google Chrome (version 52.0.2743.82 m) Mozilla Firefox (version 47.0.1)

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.

Test results overview		
Article	Requirement Text	Verdict
RTS aim 1	To provide customers with easily accessible information about their current balances.	
	Remarks/Findings: This is an explanatory text only.	
RTS requirement 1A	Where customers hold a credit or debit balance, the pages or screens used to move money into and out of accounts or products must be designed to display the customer's current account or product balance, either in the currency of their account or the currency of the gambling product (e.g. dollars, euros or pounds sterling), whenever that customer is logged in.	Not Applicable
	Remarks/Findings: This is a game only test report. Platform functions have not been tested.	
RTS requirement 1A (continued)	For telephone betting this information is to be delivered at the customer's request by the customer service agent or automated response system.	Not Applicable
	Remarks/Findings: This is not a telephone betting game.	
RTS implementation guidance 1A a.	Where funds are moved between products (for example, from a betting product to a gaming product) the balance does not necessarily have to represent all of the balances that a customer may hold with an operator in respect of those products.	
	Remarks/Findings: This is an explanatory text only.	
RTS requirement 1B	Where customers hold a credit or debit balance, the pages or screens used for gambling must be designed to display the customer's current account or product balance, or where this is not practical to display a link to a page or screen that shows the balance, whenever that customer is logged in.	PASS
	Remarks/Findings: The required information is clearly displayed whenever the customer is logged in.	
RTS requirement 1B (continued)	Balances are to be presented either in the currency of the customer's account or the currency of the gambling product (e.g. dollars, euros or pounds sterling).	PASS
	Remarks/Findings: The required information is presented correctly.	
RTS requirement 1B (continued)	For telephone betting this information is to be delivered at the customer's request by the customer service agent or automated response system.	Not Applicable
	Remarks/Findings: This is not a telephone betting game.	
RTS implementation guidance 1B a.	Where funds are moved between products, the balance does not necessarily have to represent all of the balances that a customer may hold with an operator in respect of other products.	
	Remarks/Findings: This is an explanatory text only.	

RTS implementation guidance 1B b.	Gambling pages and screens include virtual game pages, sports betting coupons, and poker and other virtual gaming 'tables'.	
	Remarks/Findings: This is an explanatory text only.	
RTS aim 2	To enable the customer to understand the value and content of their transactions.	
	Remarks/Findings: This is an explanatory text only.	
RTS requirement 2A	The remote gambling system must be designed to make available clear information about the amount of money being gambled by the customer, including any conversions from one form of currency to another, or from currency to credits, chips or other tokens etc, at the point of conversion.	PASS
	Remarks/Findings: The required information is clearly stated on the artwork.	
RTS requirement 2A (continued)	For telephone gambling, this information is to be delivered by the customer service agent or automated response system.	Not Applicable
	Remarks/Findings: This is not a telephone betting game.	
RTS implementation guidance 2A a.	It is preferable for the amount being gambled to be displayed either in the currency of the customer's account or in the currency of the product. The use of credits, chips or other tokens with no face value should be avoided wherever possible.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 2A b.	Any conversion from one currency to another should be clearly presented to the customer and any conversion rules are also to be presented. Where currency is converted into tokens, chips or credits, etc, the conversion should be clearly displayed.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 2A c.	Information about the value of the gamble should be displayed including, as appropriate:	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 2A c. i.	unit stake and total stake, whether currency, credit, tokens, chips, or any other form of payment	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 2A c. ii.	entry fees, for example, payment for entry to poker tournaments	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 2A c. iii.	the price of lottery tickets and the number of draws entered.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 2A d.	For subscription lotteries, sending a confirmation by email or post and/or displaying the stake and the number of draws entered when the customer subscribes is sufficient.	
	Remarks/Findings: This is an explanatory text only.	

RTS requirement 2B	The gambling system must be designed to display sufficient relevant information about the customer's gamble so that the content of the gamble is clear.	PASS
	Remarks/Findings: Instructions are clear and are deemed not to be misleading.	
RTS requirement 2B (continued)	This information must be made available before the customer commits to the gamble including, for example, in the artwork and textual information displayed during gaming, or on an electronic equivalent of a betting slip or lottery ticket.	PASS
	Remarks/Findings: The customer is not forced to play by selecting the game. The game can be viewed and rules can be read before laying a wager on the game.	
RTS requirement 2B (continued)	For telephone betting, this information is to be delivered by the customer service agent or automated response system.	Not Applicable
	Remarks/Findings: This is not a telephone betting game.	
RTS implementation guidance 2B a.	The following items provide guidelines about the type of information that may be relevant:	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 2B a. i.	selections – the items the customer has chosen to gamble on;	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 2B a. ii.	the bet type	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 2B a. iii.	the accepted odds, for example current odds, starting price, first show, etc.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 2B a.	These items, where relevant, are required on applications designed for use on restricted display devices.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 2B b.	For telephone gambling the content of the customer's bet should be read back to them before the bet is confirmed.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 2B c.	Where the customer is able to choose, through the use of a third party user-interface, to override the display of this information, this must not be the default option. That is, the customer must make an active choice not to have the information available or to install a user-interface that does not contain the information. The remote gambling system should continue to make available or send the information to the customer; it should not assume that the information is not required.	
	Remarks/Findings: This is an explanatory text only.	

RTS implementation guidance 2B d.	For subscription lotteries, sending a confirmation by email or post and/or displaying the first draw and the number of draws for which the customer will be entered is sufficient.	
	Remarks/Findings: This is an explanatory text only.	
RTS aim 3	To enable customers to make informed decisions about whether to gamble based on their chances of winning, the way the game, lottery or event works, the prizes or payouts on offer and the current state of multi-state games or events.	
	Remarks/Findings: This is an explanatory text only.	
RTS requirement 3A	An explanation of the applicable rules must be easily available to the customer before they commit to gamble.	PASS
	Remarks/Findings: The required information is visible without staking money.	
RTS requirement 3A (continued)	The content including artwork and text must be accurate, and sufficient to explain all of the applicable rules and how to participate.	PASS
	Remarks/Findings: Instructions are clear and are deemed not to be misleading.	
RTS requirement 3A (continued)	All reasonable steps must be taken to ensure that the content is understandable.	PASS
	Remarks/Findings: The information given is correct and is not misleading.	
RTS implementation guidance 3A a.	Explanatory content includes information in artwork and text displayed within the virtual event, in 'help' or 'how to play' pages, or other supporting material.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 3A b.	Links to the information should be prominently placed, for example on home pages for gaming sections, game selection pages or menus, or within individual games, so that customers can easily locate them.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 3A c.	As a minimum, restricted display devices should provide explanatory content via a menu item or other link.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 3A d.	The following items provide guidelines on the type of explanatory content that may be relevant and should be considered for inclusion:	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 3A d. i.	the name of the game, lottery or virtual event	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 3A d.ii.	the applicable rules, including clear descriptions of what constitutes a winning outcome	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 3A d.iii.	restrictions on play or betting, such as any play duration limits, maximum wins, etc	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 3A d. iv.	the number of decks or frequency of shuffles in virtual card games	
	Remarks/Findings: This is an explanatory text only.	

RTS implementation guidance 3A d. v.	whether there are contributions to jackpots (progressives) and the way in which the jackpot operates, for example, whether the jackpot is won by achieving a particular outcome	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 3A d. vi.	instructions on how to interact with the game	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 3A d.vii.	rules pertaining to metamorphosis of games, for example, the number and type of tokens that need to be collected in order to qualify for a feature or bonus round and the rules and behaviour of the bonus round	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 3A d.viii.	the rules for entering a single lottery draw or a series of lottery draws and the frequency of the draws.	
	Remarks/Findings: This is an explanatory text only.	
RTS requirement 3B	Where relevant, as the game or event progresses, information that may reasonably be expected to enable the customer to understand the current state must be displayed.	PASS
	Remarks/Findings: The required information is displayed on the artwork.	
RTS implementation guidance 3B	The following items provide guidelines on the type of information that may be relevant.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 3B a.	Where a game builds up a collection of tokens (symbols etc), the current number collected.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 3B b.	An indication of which rules are currently relevant, such as displaying 'bonus round' or other feature labels.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 3B c.	This requirement does not apply to lotteries.	
	Remarks/Findings: This is an explanatory text only.	
RTS requirement 3C	For each virtual event, game (including bingo), or lottery, information that may reasonably be expected to enable the customer to make an informed decision about his or her chances of winning must be easily available before the customer commits to gamble. Information must include: i. a description of the way the game works and the way in which winners are determined and prizes allocated; ii. house edge (or margin); iii. the return to player (RTP) percentage; or iv. the probability (likelihood) of winning events occurring.	PASS
	Remarks/Findings: The required information is visible without staking money.	
RTS implementation guidance 3C a.	The following items provide further guidance on acceptable types of information about the likelihood of winning:	
	Remarks/Findings: This is an explanatory text only.	

RTS implementation guidance 3C a. i.	for types of peer-to-peer games where the likelihood of winning may depend on skill and/or the actions of other participants, a description of the way the game works and how winners are determined will be sufficient;	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 3C a. ii.	for bingo, and some types of lottery or other games where it is not possible to determine the likelihood of winning because it depends on the eventual number of participants, a description of the way in which prizes are allocated will be sufficient.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 3C a. iii.	the average theoretical return to player percentage. Where an event (other than peer-to-peer) involves an element of skill, return to player percentage should be calculated using either the auto-play strategy or a standard/published strategy;	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 3C a. iv.	the house edge, margin or over-round, for example for a virtual race;	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 3C a. v.	the probability of each winning event occurring, or such information as may reasonably be expected to allow the customer to calculate the probability that the event will occur. The nature of some games may mean that the game itself provides sufficient information, for example, the likelihood of rolling a six on a six-sided die would not require further explanation.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 3C b.	Information may be included in artwork and text displayed within the virtual game or event, in 'help' or 'how to play' pages, or other supporting material.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 3C c.	Information should be easily accessible, for example by placing links on home pages for gaming or virtual event sections, game selection pages or menus, or within individual games.	
	Remarks/Findings: This is an explanatory text only.	
RTS requirement 3D	For each virtual event, game (including bingo), or lottery, content describing the potential prizes and payouts or the means by which these are calculated or determined must be easily available before the customer commits to gamble.	PASS
	Remarks/Findings: The required information is also accessible while not in game play.	
RTS implementation guidance 3D a.	Information should be made available about the amounts that customers may potentially win, for example in the form of pay-tables, or by showing the odds paid for particular outcomes.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 3D b.	For peer-to-peer games where the prize is determined based on the actions of the participants, a description of the way the game works and the rake or commission taken will be sufficient.	
	Remarks/Findings: This is an explanatory text only.	

RTS implementation guidance 3D c.	For lotteries and other types of events where the potential amount or prize paid out may not be known before the customer commits to gamble, describing the way in which the prize amount is determined will be sufficient.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 3D d.	Information may be included in artwork and text displayed within the virtual event, in 'help' or 'how to play' pages, or other supporting material.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 3D e.	Information should be easily accessible, for example by placing links on home pages for gaming sections, game selection pages or menus, or within individual games.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 3D f.	Displays of jackpot amounts that change over time ('progressives') should be updated as frequently as practicable, particularly after the amount has been reset following a win.	
	Remarks/Findings: This is an explanatory text only.	
RTS aim 4	To reduce the risk that customers are unfairly disadvantaged by technical factors that may affect speed of response, where response time has a significant impact on the likelihood of winning.	
	Remarks/Findings: This is an explanatory text only.	
RTS requirement 4A	Where speed of interaction has a significant effect on the customer's chance of winning, operators must assess the level of risk and demonstrate to the Commission that they are taking reasonable steps to reduce the risk to customers.	Not Applicable
	Remarks/Findings: The game does not support an interaction that has a (significant) effect on the customer's chance of winning.	
RTS implementation guidance 4A	Examples of possible approaches include:	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 4A a.	estimating the degree of network latency (delay) a customer is experiencing and displaying regularly updated information to the customer about any disadvantage that they may be operating under (e.g. high, medium, low)	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 4A b.	applying a handicapping system based on estimated performance and/or system latency	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 4A c.	treating winning responses that arrive within a period of time as simultaneous and implementing a policy on how simultaneous wins are to be dealt with.	
	Remarks/Findings: This is an explanatory text only.	
RTS aim 5	To ensure that the gambling system implements the operator's rules, game rules and betting rules as they are described to the customer.	
	Remarks/Findings: This is an explanatory text only.	

RTS requirement 5A	All reasonable steps should be taken to ensure that gambles are accepted, processed and settled in accordance with the operator's published terms and rules, and the rules of the specific game, event, or bet.	PASS
	Remarks/Findings: The game operates and interacts according to the published rules.	
RTS requirement 5A (continued)	Where unexpected system flaws, faults, or errors that affect the customer occur, steps are to be taken as soon as practicable to remedy the problem and ensure that the customer is treated fairly according to the circumstances.	Not Applicable
	Remarks/Findings: This is a game only test report. Platform functions have not been tested.	
RTS implementation guidance 5A a.	Under normal operation, in the absence of technical faults, the system should act in accordance with the rules.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 5A b.	Reasonable steps include testing of systems and new products against the published rules.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 5A c.	Customers should be notified when errors that affect them, for example, incorrectly settled bets, have occurred as soon as practicable after the event occurs. Steps should be taken to rectify the error, for example, by manually adjusting the customer's account.	
	Remarks/Findings: This is an explanatory text only.	
RTS aim 6	To minimise the risk that customers are misled about the likelihood of winning due to the behaviour of play-for-fun games.	
	Remarks/Findings: This is an explanatory text only.	
RTS requirement 6A	Play-for-fun games must implement the same game rules as the corresponding play-for-money games.	Not Applicable
	Remarks/Findings: Play-for-fun is out of scope of this test report. Testing is restricted to the play-for-money game.	
RTS requirement 6A (continued)	Operators must take all reasonable steps to ensure that play-for-fun games accurately represent the likelihood of winning and prize distribution in the play-for-money game.	Not Applicable
	Remarks/Findings: Play-for-fun is out of scope of this test report. Testing is restricted to the play-for-money game.	
RTS requirement 6A (continued)	For the purpose of this requirement playing a game includes participating in a lottery and/or betting on a virtual event.	Not Applicable
	Remarks/Findings: This is not a lottery and/or betting on a virtual event game.	
RTS implementation guidance 6A a.	The play-for-free game should use the same RNG as the corresponding play-for-money games, another RNG that fulfils the requirements set out in RTS requirement 7A, or a publicly available RNG, (such as those available as standard within operating systems) that may reasonably be expected to produce no systematic bias.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 6A b.	Where 6a is not reasonably possible, it should be demonstrated that the method of producing outcomes does not introduce a systematic bias, for example:	
	Remarks/Findings: This is an explanatory text only.	

RTS implementation guidance 6A b. i.	if tables of random numbers are used, they should be sufficiently long to support a large number of games without repeating	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 6A b. ii.	the method should represent game probabilities accurately, ie it should not produce a higher than expected proportion of winning outcomes.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 6A c.	The prize distribution should accurately represent the play-for-money game. For example, where play-for-fun games use virtual cash, the virtual cash payouts should be the same as the corresponding play-for-money game, and where tokens are used, the allocation of tokens as prizes should be proportionate to the stakes and prizes in the play-for-money game.	
	Remarks/Findings: This is an explanatory text only.	
RTS aim 7	To ensure that games and other virtual events operate fairly.	
	Remarks/Findings: This is an explanatory text only.	
RTS requirement 7A	Random number generation and game results must be 'acceptably random'. Acceptably random here means that it is possible to demonstrate to a high degree of confidence that the output of the RNG, game, lottery and virtual event outcomes are random, through, for example, statistical analysis using generally accepted tests and methods of analysis. Adaptive behaviour (i.e. a compensated game) is not permitted.	PASS
	Remarks/Findings: This is a game only test report. The correct processing by the game of RNG driven elements was included in the examination. However, since the RNG being used in the platform has already been certified, testing of the RNG itself is not included. See section 'References' for the RNG test report details.	
RTS requirement 7A (continued)	Where lotteries use the outcome of other events external to the lottery, to determine the result of the lottery the outcome must be unpredictable and externally verifiable.	Not Applicable
	Remarks/Findings: This is not a lottery game.	
RTS implementation guidance 7A a.	RNG's should be capable of demonstrating the following qualities:	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7A a. i.	the output from the RNG is uniformly distributed over the entire output range and game, lottery, or virtual event outcomes are distributed in accordance with the expected/theoretical probabilities	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7A a. ii.	the output of the RNG, game, lottery, and virtual event outcomes should be unpredictable, for example, for a software RNG it should be computationally infeasible to predict what the next number will be without complete knowledge of the algorithm and seed value	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7A a. iii.	random number generation does not reproduce the same output stream (cycle), and that two instances of a RNG do not produce the same stream as each other (synchronise)	
	Remarks/Findings: This is an explanatory text only.	

RTS implementation guidance 7A a. iv.	any forms of seeding and re-seeding used do not introduce predictability	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7A a. v.	any scaling applied to the output of the random number generator maintains the qualities above.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7A b.	For lotteries using external events - where it is not practical to demonstrate 7a. - the events outcomes should be:	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7A b. i.	unpredictable, that is, events should be selected only where they may reasonably be assumed to be random events	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7A b. ii.	unable to be influenced by the lottery operator (or external lottery manager)	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7A b. iii.	publicly available and externally verifiable, for example, events that are published in local or national press would be acceptable.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7A c.	For games or virtual events that use the laws of physics to generate the outcome of the game (mechanical RNGs), the mechanical RNG used should be capable of meeting the requirements in a. where applicable and in addition:	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7A c. i.	the mechanical pieces should be constructed of materials to prevent decomposition of any component over time (e.g. a ball shall not disintegrate)	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7A c. ii.	the properties of physical items used to choose the selection should not be altered	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7A c. iii.	players should not have the ability to interact with, come into physical contact with, or manipulate the mechanics of the game.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7A d.	Restricting adaptive behaviour prohibits automatic or manual interventions that change the probabilities of game outcomes occurring during play. Restricting adaptive behaviour is not intended to prevent games from offering bonus or special features that implement a different set of rules, if they are based on the occurrence of random events.	
	Remarks/Findings: This is an explanatory text only.	
RTS requirement 7B	As far as is reasonably possible, games and events must be implemented fairly and in accordance with the rules and prevailing payouts, where applicable, as they are described to the customer.	PASS
	Remarks/Findings: The game operates and interacts according to the published rules.	

RTS implementation guidance 7B a.	Games should implement the rules as described in the rules available to the customer before play commenced.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7B b.	The mapping of the random inputs to game outcomes should be in accordance with prevailing probabilities, pay tables, etc.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7B c.	When random numbers, scaled or otherwise, are received, e.g. following a game requesting a sequence of random numbers, they are to be used in the order in which they are received. For example, they may not be discarded due to adaptive behaviour.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7B d.	Numbers or sequences of numbers are not to be discarded, unless they fall outside the expected range of numbers required by the virtual event – such an occurrence should result in an error being logged and investigated.	
	Remarks/Findings: This is an explanatory text only.	
RTS requirement 7C	Game designs or features that may reasonably be expected to mislead the customer about the likelihood of particular results occurring are not permitted, including substituting losing events with near-miss losing events and simulations of real devices that do not simulate the real probabilities of the device.	PASS
	Remarks/Findings: The game design and/or game features are not misleading.	
RTS implementation guidance 7C a.	Where a virtual event simulates a physical device, the theoretical game probabilities should match the probabilities of the real device (for example, the probability of a coin landing heads must be 0.5 every time the coin is tossed).	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7C b.	Where multiple physical devices are simulated the probabilities of each outcome should be independent of the other simulated devices.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7C c.	Games may not falsely display near-miss results, that is, the event may not substitute one losing outcome with a different losing outcome.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7C d.	Where the event requires a pre-determined layout (for example, hidden prizes on a map), the locations of the winning spots should not change during play, except as provided for in the rules of the game.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7C e.	Where games involve an element of skill, every outcome described in the virtual event rules or artwork should be possible, that is, the customer should have some chance of achieving an advertised outcome regardless of skill.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7C f.	Where a customer contributes to a jackpot pool, that customer should be eligible to win the jackpot whilst they are playing that game, in accordance with the game and jackpot rules.	
	Remarks/Findings: This is an explanatory text only.	

RTS requirement 7D	The rules, payouts and outcome probabilities of a virtual event or game may not be changed while it is available for gambling, except as provided for in the rules of the game, lottery or virtual event. Such changes must be brought to customer's attention.	PASS
	Remarks/Findings: The game does not support a change of rules, payouts or outcome probabilities.	
RTS implementation guidance 7D a.	Changes to game or event rules, paytables or other parameters that change the way in which a game, lottery, or event works, the winnings paid, or likelihood of winning (except as described in 7Dc.), should be conducted with the game or event taken offline or suspended.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7D b.	Altered games, lotteries, and events should display a notice that informs customers that the game or event has been changed, for example, 'rules changed', 'new odds', or 'different payouts'. The notice should be displayed on game selection screens and on the events themselves if it is possible for the customer to go straight to the event without using a selection screen.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7D c.	This requirement is not intended to prevent games and virtual events where specified changes occur legitimately, in accordance with the game or event rules, for example:	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7D c. i.	virtual events, such as virtual racing products where the odds differ from event to event depending on the virtual runners	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7D c. ii.	virtual games, such as bingo where the odds of winning are dependent on the number of entrants	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7D c. iii.	games with progressive jackpots, where the amount that can be won changes over time	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7D c. iv.	games with bonus rounds where different rules apply, so long as these rounds are properly described to the customer	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 7D c. v.	unspecified changes to rules, paytables or other parameters that change the way in which a game, lottery or event works are not permitted, for example, rules that state 'game rules may be changed at any time' would not be acceptable.	
	Remarks/Findings: This is an explanatory text only.	
RTS requirement 7E	Except in the case of subscription lotteries, the system must be designed to clearly and accurately display the result of the game or event and the customer's gamble.	PASS
	Remarks/Findings: The required information is clearly and accurately presented to the customer.	

RTS requirement 7E (continued)	The result must be displayed for a length of time that may reasonably be expected to be sufficient for the customer to understand the result of the game or event in the context of their gamble.	PASS
	Remarks/Findings: The game outcome is displayed until a new play is started by the player.	
RTS implementation guidance 7E	The game artwork and text should be sufficient to provide the customer with all of the information required to determine whether they have lost or won, and the value of any winnings.	
	Remarks/Findings: This is an explanatory text only.	
RTS aim 8	To ensure that the customer is still in control of the gambling where auto-play functionality is provided.	
	Remarks/Findings: This is an explanatory text only.	
RTS requirement 8A	The gambling system must provide easily accessible facilities that:	
	Remarks/Findings: This is an explanatory text only.	
RTS requirement 8A a.	make available the following three controls, each of which stops auto-play functionality when it is triggered-	
	Remarks/Findings: This is an explanatory text only.	
RTS requirement 8A a. i.	'loss limit', ie where the player selects an option to not lose more than X from their starting balance, where X is an amount that can be selected by the player. A 'loss' in this context equates to accumulated auto-play bets minus accumulated auto-play wins.	PASS
	Remarks/Findings: The auto-play function is implemented consistently with the requirements.	
RTS requirement 8A a. ii.	'single win limit' ie single win greater than Y where Y is an amount that can be selected by the player and	PASS
	Remarks/Findings: The auto-play function is implemented consistently with the requirements.	
RTS requirement 8A a. iii.	'jackpot win' (where applicable).	PASS
	Remarks/Findings: The auto-play function is implemented consistently with the requirements.	
RTS requirement 8A b.	require auto-play to be implemented in such a way that each time a customer chooses to use auto-play they must select the stake, the number of auto-play gambles and at least the first of the above three controls.	PASS
	Remarks/Findings: The auto-play function is implemented consistently with the requirements.	
RTS requirement 8A continued	The number of auto-play gambles must not exceed 100 in one batch. During auto-play the customer must be able to stop the auto-play regardless of how many auto-play gambles they initially chose or how many remain.	PASS
	Remarks/Findings: The number of auto-play gambles does not exceed the maximum permitted number.	
RTS implementation guidance 8A a.	Auto-play should not override any of the display requirements (for example, the result of each gamble must be displayed for a reasonable length of time before the next gamble commences, as set out in RTS 7E).	
	Remarks/Findings: This is an explanatory text only.	

RTS aim 9	To minimise the risk that auto-play functionality disadvantages a customer or that autoplay or other strategy advice is misleading.	
	Remarks/Findings: This is an explanatory text only.	
RTS requirement 9A	Strategy advice and auto-play functionality must be fair, not misleading and must not represent a poor choice.	PASS
	Remarks/Findings: Auto-play functionality is implemented consistently with the requirements. The game does not support strategy advice.	
RTS implementation guidance 9A a.	In implementing this control, the following should be considered, where appropriate:	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 9A a. i.	if there is a standard strategy, for example, for well known games like blackjack, the standard strategy should be used	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 9A a. ii.	strategies or auto-play should (theoretically) produce at least the average Return to Player (RTP) for the game over time.	
	Remarks/Findings: This is an explanatory text only.	
RTS aim 10	To ensure that customers are treated fairly in the event of interrupted play or betting and that they are aware of how they will be treated if interruptions occur.	
	Remarks/Findings: This is an explanatory text only.	
RTS requirement 10A	Operators must take all reasonable steps to ensure that their policies for instigating or dealing with service interruptions are fair and do not systematically disadvantage customers.	Not Applicable
	Remarks/Findings: This is a game only test report. Platform functions have not been tested.	
RTS implementation guidance 10A a.	For gaming the following policies should be applied:	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 10A a. i.	where an interruption occurs after the operator receives notification of the customer's gamble and where the customer can have no further influence on the outcome of the event or gamble the results of the gamble should stand	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 10A a. ii.	where an interruption to a single-participant single stage event occurs before an outcome has been generated the customer should have any deducted stake returned to their balance	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 10A a. iii.	for stateful games (games where there are multiple stages or decision points), all reasonable steps should be taken to restore the game to its last known state to enable the customer to complete the game	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 10A a. iv.	games with multiple participants (equal chance or otherwise) should be dealt with fairly on a case-by-case basis	
	Remarks/Findings: This is an explanatory text only.	

RTS implementation guidance 10A a. v.	progressive jackpot values should be restored to their pre-failure state.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 10A b.	For peer-to-peer betting the following policies should be applied:	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 10A b. i.	where a service interruption is caused by failures in the gambling system, operators should suspend betting on all betting markets that have been affected by a significant event before service is restored	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 10A b. ii.	other failures should be dealt with fairly on a case-by-case basis.	
	Remarks/Findings: This is an explanatory text only.	
RTS requirement 10B	Systems must be capable of recovering from failures that cause interruptions to gambling, including where appropriate, the capability to void gambles (with or without manual intervention), the capability to suspend betting markets, and taking all reasonable steps to retain sufficient information to be able to restore events to their pre-failure state.	PASS
	Remarks/Findings: A game will be continued from the point of interruption after a renewed login.	
RTS implementation guidance 10B a.	For gaming the system should:	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 10B a. i.	be capable of voiding gambles and restoring the amount gambled to the customer automatically, or in conjunction with manual operational controls; and	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 10B a. ii.	implement all reasonable measures to maintain sufficient information to be capable of automatically restoring an event to its pre-failure state so that it may be completed by the customer. The following information should be restored, as appropriate: • the state of a deck of cards, and any hands that have been dealt • number of tokens collected • any other predetermined information, such as maps or prize layouts • the value of any progressive jackpots • the state of any gambles, e.g. who has staked what on what outcome • bets placed or offered.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 10B b.	For peer-to-peer betting, it should be possible to suspend betting markets manually or automatically.	
	Remarks/Findings: This is an explanatory text only.	
RTS aim 11	To reduce the risk that cheating or collusion by players unfairly disadvantages another player.	
	Remarks/Findings: This is an explanatory text only.	

RTS requirement 11A	Measures intended to deter, prevent, and detect collusion and cheating must be implemented. Gambling systems must retain a record of relevant activities to facilitate investigation and be capable of suspending or disabling player accounts or player sessions.	Not Applicable
	Remarks/Findings: This is not a peer-to-peer game.	
RTS implementation guidance 11A a.	The Information Provision Annex standard 7 provides guidance on the minimum information that should be made available to deter cheating.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 11A b.	Relevant activities to be recorded will vary by game but may include:	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 11A b. i.	which players played at which tables	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 11A b. ii.	the amounts won from and lost to accounts	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 11A b. iii.	game activities to an individual bet/action level.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 11A c.	Where appropriate, prevention measures may include:	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 11A c. i.	taking steps to prevent a player from occupying more than one seat at any individual table.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 11A d.	Detection measures may include, detecting and investigating the following, where appropriate:	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 11A d. i.	players who frequently share the same tables	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 11A d. ii.	players from same address who share the same table	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 11A d. iii.	suspicious patterns of play (such as chip dumping).	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 11A e.	Customer complaints about cheating should be investigated.	
	Remarks/Findings: This is an explanatory text only.	
RTS aim 12	To provide customers with facilities that may assist them in sticking to their personal budgets for gambling with the operator.	
	Remarks/Findings: This is an explanatory text only.	

RTS requirement 12A	The gambling system must provide easily accessible facilities that make it possible for customers to impose their own financial limits.	Not Applicable
	Remarks/Findings: This is a game only test report. Platform functions have not been tested.	
RTS requirement 12A (continued)	Customers must be given the opportunity to set a limit as part of the registration process (or at the point at which the customer makes the first deposit or payment). For lotteries, where the customer's spend is controlled through subscriptions, additional facilities do not have to be provided.	Not Applicable
	Remarks/Findings: This is a game only test report. Platform functions have not been tested.	
RTS implementation guidance 12A a.	For telephone gambling (except lotteries), customers should be asked if they would like to set a deposit or spend limit when they register. Customers should be able to request a limit at any point after registration. The limit should be implemented as soon as practicable after the customer's request. The customer should be informed when the limit will come into force.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 12A b.	For other access media (including internet, interactive TV and mobile), customers should be offered the opportunity to select a deposit/spend limit from a list which may contain a 'no limit' option or to enter a limit of their choice as part of the registration or first deposit process. The 'no limit' option should not be the default option.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 12A c.	Limits could be in the form of:	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 12A c. i.	deposit limits: where the amount a customer deposits into their account is limited over a particular duration	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 12A c. ii.	spend limits: where the amount a customer spends on gambling (or specific gambling products) is restricted for a given period – this type of limit may be appropriate where the customer does not hold a deposit account with the operator	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 12A c. iii.	loss limits: where the amount lost (i.e. winnings subtracted from the amount spent) is restricted (for instance when a customer makes a £10 bet and wins £8, the loss is £2).	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 12A d.	The period/duration of the limits on offer should include: i. 24 hours; ii. 7 days; and iii. one month	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 12A e.	In addition:	
	Remarks/Findings: This is an explanatory text only.	

RTS implementation guidance 12A e. i.	limits may be implemented per customer, per account, or other means	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 12A e. ii.	limits could also be implemented across all products or channels or for individual products or channels	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 12A e. iii.	financial limit facilities should be provided via a link on the home page	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 12A e. iv.	facilities should be available on deposit pages/screens or via a link on these pages/screens.	
	Remarks/Findings: This is an explanatory text only.	
RTS requirement 12B	All reasonable steps must be taken to ensure that customer-led limits are only increased at the customer's request, only after a cooling-off period of 24 hours has elapsed and only once the customer has taken positive action at the end of the cooling off period to confirm their request.	Not Applicable
	Remarks/Findings: This is a game only test report. Platform functions have not been tested.	
RTS implementation guidance 12B a.	Where possible (for instance, unless systems/technical failures prevent it) limit reductions are to be implemented within 24 hours of the request being received. In addition, at the point at which the customer request a decrease in their limit, they should be informed when the limit reduction will take effect.	
	Remarks/Findings: This is an explanatory text only.	
RTS aim 13	To provide customers with facilities to assist them to keep track of the time they spend gambling.	
	Remarks/Findings: This is an explanatory text only.	
RTS requirement 13A	Where the gambling system uses full screen client applications that obscure the clock on the customer's device the client application itself must display the time of day or the elapsed time since the application was started, wherever practicable.	PASS
	Remarks/Findings: Where the gambling system uses full screen client applications, the time of day is displayed on the game screen at all times.	
RTS implementation guidance 13A a.	Time of day should either be taken from the customer's own device or 'server time' and should be displayed in hours and minutes.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 13A b.	Operators will not be expected to detect whether or not customers have hidden their clocks.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 13A c.	Elapsed time should be displayed in minutes and hours.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 13A d.	For restricted display devices, time of day or elapsed time should be displayed where the device supports it.	
	Remarks/Findings: This is an explanatory text only.	

RTS implementation guidance 13A e.	In addition, customers may be offered the ability to set a session or game-play duration reminder.	
	Remarks/Findings: This is an explanatory text only.	
RTS requirement 13B	The gambling system must provide easily accessible facilities that make it possible for customers to set a frequency at which they will receive and see on the screen a reality check within a gaming session. A 'reality check' means a display of the time elapsed since the session began. The customer must acknowledge the reality check for it to be removed from the screen.	Not Applicable
	Remarks/Findings: This is a game only test report. Platform functions have not been tested.	
RTS implementation guidance 13B a.	The customer should be offered the opportunity to set a reality check and select a frequency at which the reality check will appear on the screen prior to commencing game play. The customer should be offered a range of time periods from which to select.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 13B b.	The reality check should continue to appear at the selected time intervals until the customer's gaming session ends.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 13B c.	The reality check should offer the facility to exit the gambling session.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 13B d.	The reality check should provide a link to the customer's account history.	
	Remarks/Findings: This is an explanatory text only.	
RTS aim 14	To ensure that products are designed responsibly and to minimise the likelihood that they exploit or encourage problem gambling behaviour.	
	Remarks/Findings: This is an explanatory text only.	
RTS requirement 14A	Gambling products must not actively encourage customers to chase their losses, increase their stake or increase the amount they have decided to gamble, or continue to gamble after they have indicated that they wish to stop.	PASS
	Remarks/Findings: Customers are not actively encouraged to play.	
RTS implementation guidance 14A a.	By actively encourage, we mean the inclusion of specific features, functions or information that could reasonably be expected to encourage a greater likelihood of the behaviours described occurring. For example:	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 14A a. i.	the amount of funds taken into a product should not be topped up without the customer choosing to do so on each occasion, e.g. when a customer buys-in at a poker table they should have to choose to purchase more chips to play at the table - automatic re-buys should not be provided	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 14A a. ii.	written or graphical information should not encourage customers to try to win back their losses	
	Remarks/Findings: This is an explanatory text only.	

RTS implementation guidance 14A a. iii.	customers who have chosen to exit a game should not be encouraged to continue playing by, for example, being offered a free game.	
	Remarks/Findings: This is an explanatory text only.	
RTS implementation guidance 14A b.	This requirement is not intended to prevent operators from offering special features or well-known games such as blackjack that allow customers to increase their stake on the occurrence of specific events (e.g. split).	
	Remarks/Findings: This is an explanatory text only.	
IPA aim 1	To provide customers with facilities that enable them to review previous gambling and account transactions.	
	Remarks/Findings: This is an explanatory text only.	
IPA requirement 1A	Customers must have easy access to their account and gambling history.	Not Applicable
	Remarks/Findings: This is a game only test report. Platform functions have not been tested.	
IPA requirement 1A (continued)	Where customers access operators' products or register via websites, it is acceptable to provide access to statements via these websites.	Not Applicable
	Remarks/Findings: This is a game only test report. Platform functions have not been tested.	
IPA requirement 1A (continued)	For customers who do not access or register via websites, information is to be provided via the medium of access, or a copy must be sent via email, fax, or post.	Not Applicable
	Remarks/Findings: This is a game only test report. Platform functions have not been tested.	
IPA implementation guidance 1A a.	Account history should include credit and debit information such as deposits, withdrawals, movement of funds between products, payments off credit accounts, entry fee deductions, and bonus information, as appropriate.	
	Remarks/Findings: This is an explanatory text only.	
IPA implementation guidance 1A b.	For betting, gambling history should include bets placed, and the results of bets, including winnings paid. For gaming (including bingo) full or summarised gaming information should be available, for example, £10 taken into game, £100 turned over, £3 taken away from game.	
	Remarks/Findings: This is an explanatory text only.	
IPA implementation guidance 1A c.	Where customers are able to move funds between gambling products, account information and statements should clearly display movement of funds into and out of products.	
	Remarks/Findings: This is an explanatory text only.	
IPA implementation guidance 1A d.	For telephone betting, where customers demonstrate that they also have access to websites – by registering online or using other online products – it is acceptable to provide access to statements via these websites, otherwise customers should be sent a regular copy of their statement via email, fax or post unless they elect not to receive this information. Customers should be sent a statement on request, even if they have opted out of receiving regular statements.	
	Remarks/Findings: This is an explanatory text only.	

IPA implementation guidance 1A e.	For gaming, where detailed historic game information may not necessarily be directly available to customers, as a minimum, customers should have easy access to details of the last game played and summarised information for previous activities.	
	Remarks/Findings: This is an explanatory text only.	
IPA implementation guidance 1A f.	For restricted display devices, where customers demonstrate that they also have access to websites – for example, by registering online or using other online products – it is acceptable to provide access to statements via these websites. Otherwise, if the information cannot practicably be provided on the device, customers should be sent a copy of the statement via email, fax or post.	
	Remarks/Findings: This is an explanatory text only.	
IPA aim 2	To inform customers who choose to use third party user-interfaces that they may not receive full information about their gambles.	
	Remarks/Findings: This is an explanatory text only.	
IPA requirement 2A	Customers must be informed that third party interface applications may not display full information about the customer's gambles.	Not Applicable
	Remarks/Findings: This is a game only test report. Platform functions have not been tested.	
IPA implementation guidance 2A a.	Information should be included in terms and conditions, rules or other general information about the gambling product that is made available to and/or sent out to customers.	
	Remarks/Findings: This is an explanatory text only.	
IPA aim 3	To make the customer aware that they may not have the latest information available when betting on live events, and that they may be at a disadvantage to operators or other customers who have more up-to-date information.	
	Remarks/Findings: This is an explanatory text only.	
IPA requirement 3A	Information must be made available that explains that 'live' TV or other broadcasts are delayed and that others may have more up-to-date information.	Not Applicable
	Remarks/Findings: This is not an in-running betting game.	
IPA requirement 3A (continued)	Main in-running betting pages must be designed to include this information where practicable.	Not Applicable
	Remarks/Findings: This is not an in-running betting game.	
IPA requirement 3A a.	Brief information should be included on main in-running pages or screens, such as the in-running home page or screen. More detail should be provided in 'help' or 'how to' or other product pages or screens.	Not Applicable
	Remarks/Findings: This is not an in-running betting game.	
IPA requirement 3A b.	For telephone betting the information should be included in the general betting or product information that is made available to and/or sent out to customers.	Not Applicable
	Remarks/Findings: This is not an in-running betting game.	
IPA requirement 3A c.	Where a brief notice cannot be practicably included on the main pages or screens, the information should be provided on easily accessible 'help', 'how to' or other product pages or screens.	Not Applicable
	Remarks/Findings: This is not an in-running betting game.	

IPA aim 4	To make customers in peer-to-peer(s) gambling aware that they may be gambling against a software program (designed to automatically participate in gambling within certain parameters), rather than another (human) participant. This software is sometimes referred to as a robot or bot.	
	Remarks/Findings: This is an explanatory text only.	
IPA requirement 4A	Where operators use programs to participate in gambling on their behalf in peer-to-peer gambling, easily accessible information must be displayed, which clearly informs customers that the operator uses this kind of software.	Not Applicable
	Remarks/Findings: This is not a peer-to-peer game.	
IPA implementation guidance 4A a.	Peer-to-peer(s) gambling operators that use software to gamble on their behalf (for example, poker robots) should display a notice to customers on the home pages or screens and in the game description, 'help' or 'how to play/bet' pages or screens.	
	Remarks/Findings: This is an explanatory text only.	
IPA implementation guidance 4A b.	As a minimum, restricted display devices should provide a link to further information on gambling pages/screens or in 'help', 'about' or 'how to bet/play' pages or screens.	
	Remarks/Findings: This is an explanatory text only.	
IPA requirement 4B	Where peer-to-peer(s) customers may be gambling against programs deployed by other customers to play on their behalf, information should be made available that describes that this is possible, and if it is against the operator's terms and conditions to use robots, how to report suspected robot use.	Not Applicable
	Remarks/Findings: This is not a peer-to-peer game.	
IPA implementation guidance 4B a.	The warning and information about how to complain should be included in game descriptions, rules, terms and conditions, 'help', 'how to play' or other general product information pages.	
	Remarks/Findings: This is an explanatory text only.	
IPA implementation guidance 4B b.	The warning should also inform customers that if they use a program to gamble on their behalf, other customers may be able to exploit it.	
	Remarks/Findings: This is an explanatory text only.	
IPA aim 5	To make the customer aware that they may be at a disadvantage due to technical characteristics, such as slower network connections or lower end user device performance, if they are participating in a time-critical form of gambling (where the customer's speed of interaction influences their chance of winning).	
	Remarks/Findings: This is an explanatory text only.	
IPA requirement 5A	For time-critical events, the customer should be informed that they might be at a disadvantage because of technical issues such as slower network speeds, or slower end user device performance.	Not Applicable
	Remarks/Findings: The game does not support time critical events.	
IPA implementation guidance 5A a.	Information should be included in game descriptions, rules, 'help' or 'how to play' pages.	
	Remarks/Findings: This is an explanatory text only.	

IPA aim 6	To inform customers about the operator's policies with regard to service interruptions and how they are likely to be treated if interruption occurs so that they may make an informed decision about whether to gamble and in what way.	
	Remarks/Findings: This is an explanatory text only.	
IPA requirement 6A	Operators must make available information about their policies regarding service interruptions in various different circumstances.	Not Applicable
	Remarks/Findings: This is a game only test report. Platform functions have not been tested.	
IPA implementation guidance 6A a.	Operators should make information available to customers about how they will be treated in various common scenarios. However, this does not mean that operators have to detail all possible scenarios or responses to service interruptions.	
	Remarks/Findings: This is an explanatory text only.	
IPA aim 7	To inform customers about the risks posed by collusion/cheating and to deter individuals from attempting to cheat.	
	Remarks/Findings: This is an explanatory text only.	
IPA requirement 7A	Information must be made available about the operator's policies and procedures with regard to cheating, and about how to complain if a customer suspects other participants are cheating.	Not Applicable
	Remarks/Findings: This is a game only test report. Platform functions have not been tested.	
IPA implementation guidance 7A a.	As a minimum deterrent, customers should be informed that accounts will be closed if the customer is found to have cheated.	
	Remarks/Findings: This is an explanatory text only.	
IPA implementation guidance 7A b.	Relevant information should be included in terms and conditions or rules.	
	Remarks/Findings: This is an explanatory text only.	
5 Remote gambling and software technical standards – security requirements	All of section 5.	Not Applicable
	Remarks/Findings: This is a game only test report. Platform functions have not been tested.	

APPENDIX A: Game rules

Mafia Millions

Mafia Millions is a 5 reel, 20 line slot with a Progressive Jackpot.

Progressive Jackpot Feature

The jackpot is triggered by getting 5 Mafia Boss symbols on any enabled line.

To qualify for the full progressive jackpot amount, you must stake max bet on any one line or more to be eligible to win. If you place a stake amount below the max bet on any line you qualify for a percentage of the full progressive jackpot amount. For Example; If the Max stake on the game was £5 and you staked £1 you would win 20% of the Jackpot (as £1 is 20% of £5).

The current value of the progressive jackpot is displayed in the game. If you are lucky enough to be a confirmed winner of the progressive jackpot, you will be contacted to arrange the crediting of winnings to your account. The jackpot will be reduced by the amount you have won. The jackpot will be reset when the full progressive jackpot is won.

←
Game Help
13:02

Balance: £399.00 Bet: 20 x £0.10 = £2.00 Win:

Pay Table

Winnings 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 multiples of the stake amount.

Game Rules

General Rules

- Minimum and Maximum stake are at the operator's discretion.
- 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.
- Autoplay functionality may be available where the game will play out until triggered to stop via; a spin limit, wins of a set amount, losses of a set amount or jackpot win (where applicable).

←
Game Help
13:02

Balance: £399.00 Bet: 20 x £0.10 = £2.00 Win:

- The '**Mafia Boss**' symbol is also **Wild** and will substitute all symbols except the **Bank Vault** symbol to trigger free spins.
- When a player achieves 3 or more **Bank Vault** symbols in view of the reels in scatter formation or on an enabled line they will receive free spins

Free Spins

When a player achieves 3 or more **Bank Vault** symbols in view on the reels they receive a number of free spins depending on how many **Bank Vault** symbols are in view. 10 free spins for 3 symbols, 20 free spins for 4 symbols and 30 free spins for 5 symbols. A player will not win more free spins for achieving **Bank Vault** symbols on more than one line.

When free spins are in play the Bank Vault symbol will only pay out its actual multiple values, it is not possible to achieve more free spins within the free spins.

The free spins will play out at the stake and line value chosen by the player at the point they achieved the free spins. E.g. a player staking £0.10 per line on 15 lines and achieving 30 free spins will be paid out any winnings on those free spins as if it was playing 30 spins at £0.10

←
Game Help

Balance: £399.00 Bet: 20 x £0.10 = £2.00 Win:
13:02

spins will be paid out any winnings on those free spins as if it was playing 30 spins at £0.10 per line with 15 lines enabled.

*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.

Jackpot Rules

- The jackpot value on this game is initially funded/seeded with a set amount.
- For each cash stake made on the game a contribution is made to the jackpot fund. This contribution is funded by the operator so does not affect the game RTP.
- The jackpot has a default jackpot stake contribution percentage. Individual operators may vary the jackpot contribution percentage for the game.
- Stake contributions result in increments to the jackpot value. Until the jackpot seed has been covered a portion of stake contributions (typically 50%) are used to cover the seed while the remaining portion is used to increment the jackpot value. Once the jackpot seed has been covered 100% of contributions result in an increment

←
Game Help

Balance: £399.00 Bet: 20 x £0.10 = £2.00 Win:
13:02

increment.

- Jackpot increments occur nightly based on the contributions from the preceding day.
- The jackpot on this game may be linked with other games.
- When a JP win has been validated the jackpot value is set to the reset value, which may differ from the initial set amount.
- The jackpot on this game is funded by contributions from the networked operators not game stakes.
- The jackpot will not be reset until the win is validated.
- Due to communication delays two players may appear to win the jackpot simultaneously. In this case the first payout will be for the full jackpot value, while the second player will receive the reseed value.
- From time to time we may remove funds from the Jackpot in order to run promotions. Terms and Conditions relating to these promotions will be clearly displayed on our website throughout the promotional period.
- On rare occasions we may vary elements of the jackpot configuration such as how the jackpot is seeded or won. Any updates will be reflected in these rules immediately.



Game Help

Balance: £399.00 Bet: 20 x £0.10 = £2.00 Win: 13:02

RTP

- Average RTP is 93% (based on average gameplay). The game also has a progressive jackpot which is funded by operators. Default contribution is 1% of cash stakes. Individual operators may vary the jackpot contribution percentage.

Disconnections and Game Recovery

If your connection to a game is lost for whatever reason, e.g. internet connection problems, or manually quitting/closing the game, while a game is in progress the game will still complete and you will receive any winnings due. You can still see the results in Bet History after completion of the game.

Malfunction

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

Game Version: 17.4.0, 19/09/17



Game Help

Balance: £399.00 Bet: 20 x £0.10 = £2.00 Win: 13:02

RTP

- Average RTP is 93% (based on average gameplay). The game also has a progressive jackpot which is funded by operators. Default contribution is 1% of cash stakes. Individual operators may vary the jackpot contribution percentage.

Disconnections and Game Recovery

If your connection to a game is lost for whatever reason, e.g. internet connection problems, or manually quitting/closing the game, while a game is in progress the game will still complete and you will receive any winnings due. You can still see the results in Bet History after completion of the game.

Malfunction

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

Game Version: 17.4.0, 19/09/17

Game Help	
Balance: £358.50 Bet: 20 x £2.00 = £40.00 Win:	13:03

APPENDIX B: Game software identification

File name	SHA1
\asset\bonusbg.svg	bf779f18c345351259c8e2235fbe608610ee2a81
\asset\bonusInfo.svg	623fead8bd9ed3c867d1726959ae2df0528d7768
\asset\gameIcon_mobile.svg	f784f7bf485be83829772f87dfbeef08e872541d
\asset\gameIcon_tablet.svg	cc8bbe44f0d5634cffa7bb9f3a2faa29176cfa18
\asset\less-master.css	c9b7d9438973bdf4fe6e56494665cbabd563f93b
\asset\loadingbg.svg	e7c09f000bc8d1492442b45a21c60650eba1fa19
\asset\loadingLogo.svg	346025de89872f348a455c209dalbac1cfb6a7ca
\asset\loadingscreen-less-master.css	185bfe68f42cc20995b4b754d1a8e093ee809e2a
\asset\pattern.svg	9a4b5b6d2f8d21251f8ee948359a4bb44c0c3636
\asset\winningLines.svg	9b72876a93ae8ddeabcfecf2ad4b34bb8101881
\asset\sprite\spritesheet-x1.json	4371647b67768f490f36b2ecb7eb245ab4375dc5
\asset\sprite\spritesheet-x1.png	dae44afa702f7035d13703ec3a7251acfd952843
\asset\sprite\spritesheet-x2.json	6355f1e06c2084e43acea9e3475a4359ee157036
\asset\sprite\spritesheet-x2.png	97ac0506eddfa2a3bf8b3b18d0340e167d043efd
\asset\sprite\spritesheet-x2_2.json	d2b4bbf522f82800145c89db36188af02a28da98
\asset\sprite\spritesheet-x2_2.png	abe8f75fd432c22f1b883338933beabd247569b5
\asset\sprite\lines-x1\line01.svg	ad0408287ff2568a8a4d98cf5bdb4e43be5911a2
\asset\sprite\lines-x1\line02.svg	ac5097045ea1044f1537e0b0e94a4f286090ecab
\asset\sprite\lines-x1\line03.svg	a6ba438aa1ce44a3e3648b93677e0b146b9bd855
\asset\sprite\lines-x1\line04.svg	81556a46147ba9aa92787ecc10c9253b2875c3a4
\asset\sprite\lines-x1\line05.svg	c658b3d6ae62271db2a144570fc9568337664520
\asset\sprite\lines-x1\line06.svg	8ca2aa3dc95f2fd2bc446742288faa21985558fa
\asset\sprite\lines-x1\line07.svg	fcf788bc9aeaa1da6aa842dc8df1c8732cd27823
\asset\sprite\lines-x1\line08.svg	543d572a050610a709d54d7aabe4bbacaf275358

\asset\sprite\lines-x1\line09.svg	b2b77fd9b2fae0602474f591735983b5990de904
\asset\sprite\lines-x1\line10.svg	9f56dc2e3684b8bff3eeffa095bcec487596d229
\asset\sprite\lines-x1\line11.svg	e06c4186f722e236b7a963fc18fb77adb823b13a
\asset\sprite\lines-x1\line12.svg	f26f93746d9272a12cb6f42925125c656a669f22
\asset\sprite\lines-x1\line13.svg	a68df687975a8dbe0dffcb837811c037619c424e
\asset\sprite\lines-x1\line14.svg	d7ea2b777f29db7393975865b1623bd713b871aa
\asset\sprite\lines-x1\line15.svg	8c765dadd8a4cf452edb55fc22510cfcfbfa466e1
\asset\sprite\lines-x1\line16.svg	2b82610bf1a3d59f7207334262274c4b24f27c18
\asset\sprite\lines-x1\line17.svg	6362500c463d34ca4d37e921054200f7352e9585
\asset\sprite\lines-x1\line18.svg	b63e3a89fc0c373b27c6b4b35178695fac29af0b
\asset\sprite\lines-x1\line19.svg	85ea5e0198e5b531beeb38c17dc55975090c7873
\asset\sprite\lines-x1\line20.svg	87fd853842b3833fdd6781028c4c947e65a48f4b
\asset\sprite\sprite-x2\square01.svg	a7ca271e404989bac166e0433515b8eaff3f602b
\asset\sprite\sprite-x2\square02.svg	e3b2becfd1808c4fc381f2146b5007c8aba2b1bb
\asset\sprite\sprite-x2\square03.svg	d3068b436793d2470b7b65689718aa49dd861540
\asset\sprite\sprite-x2\square04.svg	4df0a36e62e0c7dbdde9cf167e266dca191036d2
\asset\sprite\sprite-x2\square05.svg	8c45e05389d0e90050cb2d6ea23721fdf0532f78
\asset\sprite\sprite-x2\square06.svg	6ab9dcc8501bf67c46aa573a6c160aa1362cb2a7
\asset\sprite\sprite-x2\square07.svg	799db294465bfe088b5ac3751176b874533da9ab
\asset\sprite\sprite-x2\square08.svg	c05345ccebbb1c75f4fb462c638cde3dce1c0dd5
\asset\sprite\sprite-x2\square09.svg	a77f2f68ff48e257f1e486dd3e564bb1d02dda98
\asset\sprite\sprite-x2\square10.svg	d6cc4bcc6e05044be993c991947305de2f385fb0
\asset\sprite\sprite-x2\square11.svg	3c6def656d33e0a2ef6040d6220f7322204c7b7f
\asset\sprite\sprite-x2\square12.svg	9f7ac23264f734106db6e11b2b7dd4d5edba5d7e
\asset\sprite\sprite-x2\square13.svg	037eaa0db71ec3ef3f7bfe1881950608a6af0f64
\asset\sprite\sprite-x2\square14.svg	075fe75246847d5a57e907a6ab68edbaa28dd2ab

\asset\sprite\sprite-x2\square15.svg	605809300e019f82292d34cd57e1e3cb1f5a9938
\asset\sprite\sprite-x2\square16.svg	ca083fc130cad1d845af8b47e34adc54e0024e86
\asset\sprite\sprite-x2\square17.svg	ad8a8df94d14d47d92b1286ab2439bd5206239ee
\asset\sprite\sprite-x2\square18.svg	6326455350dff30737fef60521b6f7508eb39dfa
\asset\sprite\sprite-x2\square19.svg	08da69bb6ef300265fca def68597ce94b3c3cc14
\asset\sprite\sprite-x2\square20.svg	ecd11e80f5c6aeld3c80eab1a83c12a2a743e041
\asset\sprite\sprite-x2\squaresscatter.svg	0082b1922b034e96a43ecfc7129e7d0e67d3beb4
\audio\JackpotWin.mp3	e0d7c5c7994d816ccc77e4c45001db81feef2073
\audio\LineDown.mp3	005cfedfe7ef32a908be642751446435b93c1229
\audio\LineUp.mp3	ea62d1722acdf28cc0d5a676b8c7f158fcda41f6
\audio\Motion.mp3	b8c35fc224402afb7a8b05ca3d4cd33adb305803
\audio\OpeningSound.mp3	f05d0a0118c03e19e046e682e9c8a3fb5c0851f8
\audio\OptionPress.mp3	0139cc9b7114f256c3ab88892cb1a173362ce2a0
\audio\PayTablePress.mp3	3304d2c839bc92cadf7ab48919aa4fffa82e0c5d
\audio\ReelStop.mp3	ba38758545b6516cefcefef26849be7ded7ae059e
\audio\StakeDown.mp3	ad128bc2e08683bcde2e162b0c7d8bbfc32cba0b
\audio\StakeUp.mp3	c9065c5f29e8ec0c32b6cf9d5fa66ef751591e1f
\audio\WinningLine.mp3	6011b1406937e1761eef7b183182442b590d35a0
\BaseSlotLogic.java	e6addef0d5b784e4c285cfbf5034646c0b69412f
\CasinoFruitMachineLogic.java	4375155624d5920f1df363e8f6ba65a27d4dfb27
\CasinoFruitMachineConfig.java	ce39886f1f9527b244ffbd3e1736906cdd2ce33c
\DefaultRNG.java	98306c88aa695325b5c511a53dd8defb7ee32ce0
\rng.properties	a3e8d9af3d1af890449e010efbfb8891aac23de
\vf-base.properties	e02166a240e2f36e2a66ef0a0074308a438f134f
\RandomNumberGenerator.java	a438c442759f09a4d2a172ce00642f311ac14979