

TEST REPORT SUMMARY

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**Issued by:** BMM Compliance Singapore Pte Ltd  
1 Science Park, TUV SUD PSB Blk,  
#B1-03, Singapore 118221

**Project Number:** Gameplay.1003

**Report Number:** Gameplay.1003.01

**Applicant:** Gameplay Interactive Limited.  
Akara Building 24 De Castro Street,  
Wickhams Cay 1, Road Town,  
Tortola, British Virgin Islands.

**Manufacturer:** Gameplay Interactive Limited

**Manufacturer Reference No:** N/A

**Machine Type:** N/A

**Product Name:** Online Asia Keno Game (Version 1.0)

**Standards Tested To:** GLI-19 : Interactive Gaming Systems Version 2.0 (February 15, 2013)

**Test Location:** BMM Compliance Singapore Pte Ltd  
1 Science Park, TUV SUD PSB Blk,  
#B1-03, Singapore 118221

**Issues/Observations:** Refer to section 6 of the test report.

**Test Engineer:** Wei Gim Chua

**Signed:**



**BMM Certification:** I, Yi Miin Heng, Test Lead – Technical Services, hereby certify that the online Asia Keno game complies with the relevant standard.

**Signed:**



**Yi Miin Heng, Test Lead – Technical Services**

**Note:** The content of this document is strictly confidential. It has been prepared by BMM Singapore Pte Ltd (BMM) exclusively for Gameplay Interactive Limited and may not be disclosed to any other party without prior written approval of BMM.

## 1. STANDARD(S) TESTED AGAINST/RESULT

Technical Standard(s) used for Compliance Evaluation:	Test Result	
	Pass	Fail
GLI-19 : Interactive Gaming Systems Version 2.0 (February 15, 2013)	✓	

## 2. PURPOSE

Gameplay Interactive Limited has requested BMM to evaluate their online Asia Keno software Version 1.0 for satisfactory operation against GLI-19, version 2.0 standards.

The purpose of this report is to set out the findings of BMM's evaluation, and to provide a recommendation for Gameplay Interactive Limited's Asia Keno game software.

## 3. GAME CHARACTERISTICS

Asia Keno is a Keno game based on random draw of twenty (20) numbered balls from eighty (80) balls ranging from one (1) to eighty (80). The game period is indicated on game screen at the start of the game. Players can place bet when a new game starts until before the last 5 seconds. The last five (5) seconds is called the 'Stop Bet Period'. Detailed game rules are stated in Asia Keno manual (PDF format) under 'Rule' menu.

### Asia Keno:

During 'Betting Period', player can place bet(s) on one or more of the following bet areas shown below:

Bet Area	Description
Pearl Ball	Results are based on the drawn numbers.
Big / Small	Results are based on the <b>sum</b> of drawn numbers.
Up / Down	Results are based on the <b>range</b> of drawn numbers.
Odds / Evens	Results are based on the <b>parity</b> of drawn numbers.
Odd / Even	Results are based on the <b>parity of the sum</b> of drawn numbers.
Parlay	Results are based on the <b>combination</b> of different bet types.
Five Elements	Results are based on the <b>range of the sum</b> of drawn numbers.

Figure 1 below illustrates the bet area on player's screen:

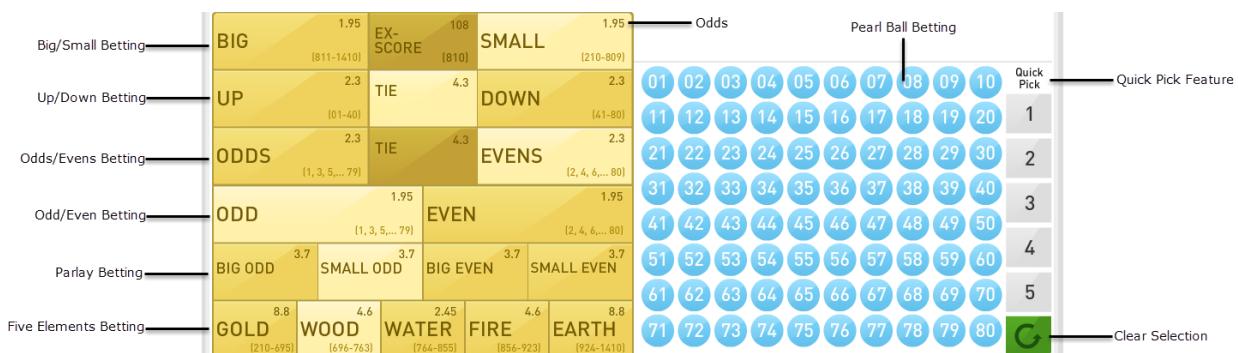


Figure 1: Bet Area

Quick pick feature is available that allows the system to randomly choose one (1) to five (5) ball(s) based on player selection. All wins are paid according to the pay table as shown below:

#### Betting and Payout:

#### Pearl Ball Betting

Player has the option to select one (1) to five (5) numbers either manually or by quick pick feature from a list of eighty (80) Pearl Balls with their respective payout as shown below:

Total Hit(s)	5 Pearl Balls Selected	4 Pearl Balls Selected	3 Pearl Balls Selected	2 Pearl Balls Selected	1 Pearl Ball Selected
<b>Hit 5</b>	x 251	-	-	-	-
<b>Hit 4</b>	x 21	x 51	-	-	-
<b>Hit 3</b>	x 3	x 6	x 20.3	-	-
<b>Hit 2</b>	No payout	x 2	x 2.3	x 10.3	-
<b>Hit 1</b>	No payout	No payout	No payout	No payout	x 3.3

#### Big / Small Betting

Player has the option to bet on the sum of twenty (20) drawn numbers. Relevant bet and respective odds are shown below:

Bet	Description	Odds
<b>Big</b>	The sum of 20 balls drawn is greater than 810	1.95
<b>Ex-Score</b>	The sum of 20 balls drawn is equal to 810	108
<b>Small</b>	The sum of 20 balls drawn is less than 810	1.95

When the result is 'Ex-Score' (810), all bets on Big and/or Small will be refunded to player.

### Up / Down Betting

Player has the option to bet on the range of twenty (20) drawn numbers. Relevant bet and respective odds are shown below:

Bet	Description	Odds
<b>Up</b>	Out of the 20 balls drawn, 11 or more numbers are between 1 - 40	2.3
<b>Tie</b>	Out of the 20 balls drawn, 10 of these numbers are between 1 – 40 and 10 of these numbers are between 41 - 80	4.3
<b>Down</b>	Out of the 20 balls drawn, 11 or more numbers are between 41-80	2.3

### Odds / Evens Betting

Player has the option to bet on the parity of twenty (20) drawn numbers. Relevant bet and respective odds are shown below:

Bet	Description	Odds
<b>Odds</b>	Out of the 20 balls drawn, 11 or more numbers are odd numbers	2.3
<b>Tie</b>	Out of the 20 balls drawn, 10 numbers are odd and 10 numbers are even	4.3
<b>Evens</b>	Out of the 20 balls drawn, 11 or more numbers are even numbers	2.3

### Odd / Even Betting

Player has the option to bet on the parity of the sum of twenty (20) drawn numbers. Relevant bet and respective odds are shown below:

Bet	Description	Odds
<b>Odd</b>	The sum of the 20 balls drawn is an odd number	1.95
<b>Even</b>	The sum of the 20 balls drawn is an even number	1.95

### Parlay Betting

Player has the option to bet on a combination of betting types based on twenty (20) drawn numbers. Relevant bet and respective odds are shown below:

Bet	Description	Odds
<b>Big / Odd</b>	The sum of the 20 balls drawn is greater than 810 and is an odd number	3.7
<b>Small / Odd</b>	The sum of the 20 balls drawn is less than 810 and is an odd number	3.7
<b>Big / Even</b>	The sum of the 20 balls drawn is greater than 810 and is an even number	3.7
<b>Small / Even</b>	The sum of the 20 balls drawn is less than 810 and is an even number	3.7

When the sum of 20 balls drawn is equal to 810 (Ex-Score), all Parlay bets will be refunded automatically.

### Five Elements Betting

Player has the option to bet on the range of the sum of twenty (20) drawn numbers. Relevant bet and respective odds are shown below:

Bet	Description	Odds
<b>Gold</b>	The sum of the 20 balls drawn is between 210-695	9.2
<b>Wood</b>	The sum of the 20 balls drawn is between 696-763	4.6
<b>Water</b>	The sum of the 20 balls drawn is between 764-855	2.4
<b>Fire</b>	The sum of the 20 balls drawn is between 856-923	4.6
<b>Earth</b>	The sum of the 20 balls drawn is between 924-1410	9.2

## **4. BMM EVALUATION PERFORMED**

BMM has tested and confirmed compliance of the Asia Keno game software against the relevant technical requirements in GLI-19: Interactive Gaming Systems Version 2.0 (February 15, 2013). BMM performed the following tests to confirm compliance to the relevant regulatory requirements:

### **4.1 SOFTWARE EVALUATION**

Ensure that software meets all the relevant requirements specified in GLI-19: Interactive Gaming Systems Version 2.0 (February 15, 2013). BMM performed this by evaluating all the game source code.

## **4.2 ARTWORK EVALUATION**

Artwork was evaluated to ensure that it correctly explains the game rules and payouts as specified in the technical documentation supplied by the manufacturer and that it conforms to the requirements of GLI-19: Interactive Gaming Systems Version 2.0 (February 15, 2013).

## **4.3 MATHEMATICAL EVALUATION**

Verification of the theoretical return of the game is as specified in the technical documentation supplied by the manufacturer and complies with the relevant rules as specified by GLI-19: Interactive Gaming Systems Version 2.0 (February 15, 2013) requirements.

## **4.4 PAYOUT TESTING**

Payout testing was conducted by simulating all winning outcomes of the game to ensure that the correct amount of credits is awarded for all winning outcomes as reflected on artwork, pay-table, source code and the technical documentation supplied by the manufacturer.

## **4.5 REGRESSION TESTING**

BMM conducted a complete range of functional tests of this new game. Testing was conducted in accordance with the test plans using relevant checklists to confirm the game's performance to a wide range of functions and failures.

## **4.6 COMPLIANCE TESTING**

Perform all tests necessary to confirm that the game complies with all the relevant requirements specified in "Section 3: Game Requirements".

## **5. RECOMMENDATION**

BMM has tested and confirmed compliance of Asia Keno game software against "Section 3: Game Requirements" of GLI-19: Interactive Gaming Systems Version 2.0 (February 15, 2013), subject to secure installation on the production system and information specified in section 6 of this report.

BMM therefore, recommends approval of Gameplay Interactive Limited's Asia Keno game software.

Please refers to Appendix 1 for details of the software used for this evaluation.

### GAME PERCENTAGE VARIATION DETAILS

Betting Type	Bet	BMM Calculated RTP%	Gameplay Interactive Calculated RTP%
Pearl Ball Betting	1	82.50	82.50
	2	61.93	61.93
	3	60.08	60.08
	4	84.10	84.10
	5	66.76	66.76
Big / Small Betting	Big	97.50	97.51
	Ex-Score	47.44	47.50
	Small	97.52	97.51
Up / Down Betting	Up	91.64	91.63
	Tie	87.41	87.40
	Down	91.61	91.63
Odds / Evens Betting	Odds	91.64	91.62
	Tie	87.39	87.40
	Evens	91.62	91.63
Odd / Even Betting	Odd	97.51	97.50
	Even	97.49	97.50
Parlay Betting	Big Odd	92.94	92.93
	Small Odd	92.97	92.94
	Big Even	92.11	92.13
	Small Even	92.12	92.14
Five Elements Betting	Gold	94.35	94.30
	Wood	92.71	92.71
	Water	93.14	93.13
	Fire	93.52	93.56
	Earth	96.15	96.17

\* Note: The minor differences in RTP % were due to game simulation.

## 6. ADDITIONAL INFORMATION

1. Hardware RNG used in this game has been previously recommended. Please refer to BMM Certification test report (BMM Reference: Gameplay.1002.01, dated 20<sup>th</sup> January 2016) for more details.
2. The information on percentage return to player (RTP) is listed under the "Rule" menu of the game.
3. Clauses 3.3.7a of GLI-19: Interactive Gaming Systems Version 2.0 (February 15, 2013) could not be verified due to limitations of the test environment.

## 7. COMMENTS

BMM has conducted a level of testing/evaluation which has historically been adequate for a submission of this type. Accordingly from the testing performed BMM confirms that the item under test (unless otherwise stated) conforms to all the relevant GLI-19: Interactive Gaming Systems Version 2.0 (February 15, 2013) as stated below, subject to secure installation on the production system and information specified in section 6 of this report.

GLI-19: Interactive Gaming Systems Version 2.0 (February 15, 2013)	Pass / Fail / N/A
2.0 GAMING PLATFORM REQUIREMENTS	N/A
3.0 GAME REQUIREMENTS	Pass
4.0 RANDOM NUMBER GENERATOR (RNG) REQUIREMENTS	N/A
5.0 INFORMATION SECURITY SYSTEM (ISS) REQUIREMENTS	N/A
6.0 PROGRESSIVE JACKPOT REQUIREMENTS	N/A
A.0 EVENT WAGERING	N/A
B.0 LIVE DEALER / PROXY PLAYER REQUIREMENTS	N/A

Test Engineer

Wei Gim Chua

Signed:



Test Lead – Technical Services

Yi Miin Heng

Signed:



## Appendix 1

The following details the relevant information for “Asia Keno” game software used for this evaluation:

<b>Description</b>	<b>SHA1</b>
<b>Folder: \WebServices - AsiaKeno\</b>	
bet8.ico	C9A4941385619622A8A40C4F2338B406D80F3601
configuration.json	000742CAD636ECE557A5F922575ADDE289220875
crossdomain.xml	A9DC30F457869B7C6C186EB11C9C2272652A6023
favicon.ico	3563B9D84F7F5234EF0E90109FE2E38A8365B349
gameplay.ico	C6DAF5A5EE4C47E469BA1072BBF03B48F5B5EB0E
GeoLite2-City.mmdb	DC14B98670325E8E683F15D4F08B03BA95C9A0A2
Global.asax	D64BB2FDDEFF1488FD8C33D55CD6C52AC35D3B2C
packages.config	91C5A30A19A4206F8374495AB212AD78F0921C81
w88.ico	3563B9D84F7F5234EF0E90109FE2E38A8365B349
Web.config	38136959884F280FD699B581467BBE0A26DF0D7A
Web.config.install.xdt	0C91CA82E8AFC4193FCC35BB4151A169B577C7BD
Web.config.uninstall.xdt	44F63C6762A1B1EE0A7A6C9924546C184E86B296
App_Data\Lottery.WebServices.XML	3057E7C0051D88D9241EC3DA96CFBF466238379B
Areas\HelpPage\HelpPage.css	0B05D9FDE83FF4EA2E94F5DA22649A586C327595
Areas\HelpPage\TestClient.css	CF739FEC6A7AE61F8A30153E6F9E92AA4931102F
Areas\HelpPage\Views\Web.config	7A366D47DBD6874AC555944B7BF37F2A68411CA2
Areas\HelpPage\Views\_ViewStart.cshtml	B6EF518E0E4C67BEB110E0AC9920B3C05F3527B1
Areas\HelpPage\Views\Help\Api.cshtml	4E175866964A69FB04DAD04CF78922BEF970946D
Areas\HelpPage\Views\Help\Index.cshtml	D29CE070030D4EDDD0CA215B97040B5FB7EB3F9F
Areas\HelpPage\Views\Help\DisplayTemplates\ApiGroup.cshtml	6FEA3E54F38ECFBA8DCCC3204CBCF51F796DC1D4
Areas\HelpPage\Views\Help\DisplayTemplates\HelpPageApiModel.cshtml	136498A3D05A5EFBD7BC7675807FDDEAC2084283
Areas\HelpPage\Views\Help\DisplayTemplates\ImageSample.cshtml	47A76AF5CFEA08D3A1FDF11063C956E6DD939B91
Areas\HelpPage\Views\Help\DisplayTemplates\InvalidSample.cshtml	0F2E100B5E0D31339B38FFE28C7DD04CDEA667F7
Areas\HelpPage\Views\Help\DisplayTemplates\Parameters.cshtml	A4B3347B2A3D379D975AE80464A73BDD704E181E
Areas\HelpPage\Views\Help\DisplayTemplates\Samples.cshtml	B1D56EB02221D29911DBA6E9D174064AE336D9BB
Areas\HelpPage\Views\Help\DisplayTemplates\TestClientDialogs.cshtml	E4D6C9394D41B976F1581B476097348D4B3F508A
Areas\HelpPage\Views\Help\DisplayTemplates\TestClientReferences.cshtml	F2D4541256EDD6082B7AE382874837F694E041EF
Areas\HelpPage\Views\Help\DisplayTemplates\TextSample.cshtml	16D6AEE047A104F6DB0358D5776FA6957181CAF2
Areas\HelpPage\Views\Shared\_Layout.cshtml	3562691F5F3D0541EC348329B2CBFF21A39B45F5
bin\Antlr3.Runtime.dll	551E39FF8E4D6548746D5926093B8B7730C70F6F
bin\app.config	311CB94316A7605A0A9A22CE7FBF33F9DE5058A1
bin\bet8.ico	C9A4941385619622A8A40C4F2338B406D80F3601
bin\clrzmq.dll	1F9E8E79650AE794480EDF60D91D5D771B38B42D
bin\Enyim.Caching.dll	69CA2193F37C5ECB4F27701878D04969264DEC53
bin\libzmq-x64-3.0.0.0.dll	D8C61082E3B03DF3BA1D9A6A125D19ED8FE42C29
bin\log4net.dll	4BE4F5F9036AAE86524085ECB893AE6552FC731D

bin\Lottery.Auth.dll	59A9E4D3C186948E2FC4428CAE5EE1CE9BC777DB
bin\Lottery.Data.dll	E6B640CF619BD03FF61D075146181F9822294E19
bin\Lottery.Helper.dll	766B9F9EC4321240ECD0DA7DAC5A3EF3DC4C0941
bin\Lottery.Model.dll	EFF9669D11F3C66F7FF61FD4E35ECB7F1E0FFF0D
bin\Lottery.Services.dll	679CA295A3721272206F23247C0526118690683A
bin\Lottery.Wallet.dll	9F882ED98C85F588C4ACCFE4D75930A078198150
bin\Lottery.WebServices.dll	2A406D7D0A82143B15D2574B8F25E4A9990FABF6
bin\Lottery.WebServices.XML	3057E7C0051D88D9241EC3DA96CFBF466238379B
bin\MaxMind.Db.dll	B8FCEE4A4771B34D1FA98269AF6D5A6E2D6AECEB
bin\MaxMind.GeolP2.dll	3E6AA0422C399EAF002C19945059CED6814E9E10
bin\Microsoft.Web.Infrastructure.dll	91F688C235388C8BCEE03FF20D0C8A90DBDD4E3E
bin\Microsoft.Web.Mvc.FixedDisplayModes.dll	75045E921ABF463FE77A4662F5BCBAADC3DE206F
bin\Newtonsoft.Json.dll	4262109CE58A2EA7FB09073E41AAB56D7274235
bin\RestSharp.dll	F2B71DE50C68D2C5720206D696CB9FE7B3E63354
bin\SuperSocket.Common.dll	C48F41C793B323C7E10B24E5E52D8371DCF52DFE
bin\SuperSocket.SocketBase.dll	B261B58137B884E147247D70076E49C1D95BCC5A
bin\System.Spatial.dll	B9C9DD27E4CA54D1B142432B4BB1770FE93A615D
bin\System.Web.Helpers.dll	4ACBE142459C78C3A629B586C482964ABE85D198
bin\System.Web.Mvc.dll	F5E3AA9EE70CAF77D211825D2B956B0DC9375075
bin\System.Web.Optimization.dll	72A420F9026890FC6C7F6F3A8050FD4DCF7E2D4D
bin\System.Web.Razor.dll	026C4A3C9F19364BA205461B63C36541A640E414
bin\System.Web.WebPages.Deployment.dll	788E2F9135184CF408BE5CC66F2A9EA5E6B05606
bin\System.Web.WebPages.dll	01ECD2BF6E91FA9836CBA9A2A25DC88676D7C118
bin\System.Web.WebPages.Razor.dll	5D2440C29C564F2DCA0CB5EBAFC16D563F08E275
bin\w88.ico	3563B9D84F7F5234EF0E90109FE2E38A8365B349
bin\WebGrease.dll	87F2FFCBFCBE505148218CABA4FEA8EFF1F36417
bin\WebMatrix.Data.dll	821C26F3113B4BF0BB89C2D697BD7E4308D1298C
bin\WebMatrix.WebData.dll	282EDB9DFB31A0C8AA1EA0A40C07BB4C8ED0E465
bin\zlib.net.dll	10F7A6933A3ED04B274FB10ED58FDFC8D6FF783E
bin\de\System.Spatial.resources.dll	AF4FE1C33899DFF53498CB3749C1275DDD15373B
bin\es\System.Spatial.resources.dll	02208D73C5BBF839726D24C736F63F0194B415AD
bin\fr\System.Spatial.resources.dll	02014F11B58B8D1AC98E11A3701066EC68061098
bin\it\System.Spatial.resources.dll	42EDBD2CDF767FA0646280FC0078E6A324F4C172
bin\ja\System.Spatial.resources.dll	11C453B8AABA91E4B3079EDEA6C42EC52E419C7D
bin\ko\System.Spatial.resources.dll	1BCFA134989DAAF7C3603C4FC3A2B09B0806FC44
bin\ru\System.Spatial.resources.dll	6CC31A8A5C52E1B46EC315F524C77092D724FB5F
bin\zh-Hans\System.Spatial.resources.dll	7AC5D724E484BFA3455440F612F21C3B6BFDD8D1
bin\zh-Hant\System.Spatial.resources.dll	238449E4F820E388514BC91424670CD8F5558CAC
Content\Site.css	252C9B6E8FAB2C15D5B9BCB251184BBA09AB44BA
Content\themes\base\jquery-ui.css	72796F5BA205E4F1B4183CC8801108EBE25ADE71
Content\themes\base\jquery.ui.accordition.css	895CAC3633EFF17E07CEB43023EFFB9AAD0DF26

**bmm** testlabs

Content\themes\base\jquery.ui.all.css	F6AE15DB4EE5CC4D900333D5D05122B54229391B
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Content\themes\base\images\ui-bg_glass_75_dadada_1x400.png	11E9ED5A7DB83CF86034068E4F6DE4C2F273F0C1
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Content\themes\base\images\ui-bg_highlight-soft_75_cccccc_1x100.png	53B50999C4C9838A2A2A190B54203AB9C6ACBB21
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Content\themes\base\images\ui-icons_454545_256x240.png	00E4F026FF6A9E00F95F249D857D8CD5A584F266
Content\themes\base\images\ui-icons_888888_256x240.png	FFB3D9CFD842BF9E23F126A9DCF6546A7DFC5701
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Content\themes\base\minified\jquery-ui.min.css	825ED6AA86FB863C13CE8E595C1043C75275D9FA
Content\themes\base\minified\jquery.ui.accordion.min.css	A3304F83164C2A10852FA784635CCA5D3A17AE75
Content\themes\base\minified\jquery.ui.autocomplete.min.css	B6FB1539327FDB38B9E34E76C6C55057314236F5
Content\themes\base\minified\jquery.ui.button.min.css	E5B0AC459BA0A8C4812090F7CD18CC6423BF5678
Content\themes\base\minified\jquery.ui.core.min.css	2FBADBE9FDFC9F3BDBD99C2224AFDF688A2FF644
Content\themes\base\minified\jquery.ui.datepicker.min.css	56D6BAD9CBB8FCC2F3C9BB986CDB4438B9A9BDC5
Content\themes\base\minified\jquery.ui.dialog.min.css	E5C674E36A2FC21A9AC26EDDC3C39F4BFCA76D04
Content\themes\base\minified\jquery.ui.progressbar.min.css	EDA9BA41F075DB2A03EBA5719E293A7BFE85B516
Content\themes\base\minified\jquery.ui.resizable.min.css	B926CCADDDB66240FA498909F5CEC89C8DBA501D
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Lottery.Domain.dll	3145AC45E9D69592016A2E77F3529588DF966A8C
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