

Test Report

Test report No.:

T-J0005-I0145

Date of issue:

2019-01-07

Applicant: Bee-Fee Ltd., 27 Old Gloucester Street, WC1N 3AX London, United Kingdom	Manufacturer: Bee-Fee Ltd., 27 Old Gloucester Street, WC1N 3AX London, United Kingdom
Product: Lucky Symbols	Target device: BF Games
Product type: Internet games (reels)	Target device type: Internet gaming system
Jurisdiction: United Kingdom	
Test Criteria: Remote gambling and software technical standards June 2017.	
Pages (with annexes): 13	Verdict (subject to conditions in Chapter 1): Pass
Test report type: Game	Subject file No.: 18000551004
Test group(s): Payback, Software	
Remarks: N.A.	

Project responsible person [signature]:

Reviewed by [signature]:

Gregor Zakrajšek

Franci Piki



1 Conditions and settings for compliance with test criteria

Testing performed with English language setting.

Game supports various RTP variations. Only RTP variation listed in Test Report Annex: Payback ratio tests, Chapter 3 Payback ratio is approved herein. RTP variant shall be verified in settings in RGS database.

To comply with RTS 8 Auto-play functionality, server configuration (available in adminui) shall include the following setting:

```
"autoplaySpinCountLimits":[ 10, 20, 30, 40 ], //number of autospins
```

To comply with RTS 13B Reality checks functionality, server configuration (available in adminui) shall include the following setting:

```
"realityChecks":[{"caption":"RealityCheck", "interval":600, "isDefault":true}]
```

2 Protection against unauthorized access

See the corresponding platform test report(s).

3 Gaming device general properties

General device design:	Server, Linux, MongoDB
Cabinet(s):	N.A.
Available player denominations:	N.A.
Available tokenizations:	N.A.
Supported communication protocols:	N.A.
Supported progressives:	N.A.
Minimum bet (credits):	10 (per game)
Maximum bet (credits):	500 (per game)

4 Annexes

Annex / Test group	Attached [yes/no]	Remark
Functional tests	No	/
Randomness tests	No	/
Payback ratio tests	Yes	/
Software analysis	Yes	/
Device specific tests	No	/



Annex / Test group	Attached [yes/no]	Remark
Other annexes	No	/

5 Previous / transferred test reports results

N.A.

6 Additional information

The following RTS articles from Remote gambling and software technical standards, June 2017 were reviewed during testing and found compliant:

- RTS 1 Requirements 1A (before April 1, 2018), 1A (after April 1, 2018), 1B (before April 1, 2018), 1B (after April 1, 2018), 1C (after April 1, 2018): **Not applicable (IGS requirements)**
- RTS 2 Requirements 2A (before April 1, 2018), 2A (after April 1, 2018), 2B (before April 1, 2018), 2B (after April 1, 2018), 2C (after April 1, 2018), 2D: **Game compliant where applicable, see also IGS and RGS tests**
- RTS 3 Requirements 3A, 3C, 3D: **Game compliant where applicable (No virtual events)**
- RTS 4 Requirements 4A, 4B: **Game complies (No influence for time-critical events)**
- RTS 5 Requirement 5A: **Game complies**
- RTS 6 Requirement 6A: **Game complies**
- RTS 7 Requirements 7A, 7B, 7C, 7D, 7E: **Game compliant where applicable (see also RGS tests)**
- RTS 8 Requirement 8A: **Game complies**
- RTS 9 Requirements 9A, 9B: **Not applicable (No progressives configured during testing)**
- RTS 10 Requirements 10A, 10B, 10C: **Not applicable (No peer-to-peer betting; Stateless game)**
- RTS 11 Requirements 11A (before October 1, 2018), 11A (after October 1, 2018), 11B (before April 1, 2018), 11B (after April 1, 2018): **Not applicable (No peer-to-peer betting)**
- RTS 12 Requirements 12A (before April 1, 2018), 12A (after April 1, 2018), 12B: RTS 8 Requirement 8A: **Not applicable (not game related)**
- RTS 13 Requirements 13A, 13B: **Game complies**
- RTS 14 Requirement 14A: **Game complies**
- RTS 15 Requirement 15A: **Not applicable (classic internet reel game)**
- RTS 16 Requirements 16A, 16B (after October 1, 2018), 16C: **Not applicable (no peer-to-peer)**
- RTS 17 Requirement 17A: **Not applicable (no live dealer studios)**

7 Documentation references

The following documentation was used:

- User help,
- Screen capture images,
- Par sheets, Game description,
- Source code and configuration files.



8 Other test report references

Test group	Laboratory	Test report identification and date	Remarks
Functional tests	SIQ	T-J0005-I0098, 2017-12-01	BF Gameserver (with extensions)
Software analysis	SIQ	T-J0005-I0098, 2017-12-01	BF Gameserver (with extensions)
Randomness tests	SIQ	T-J0005-I0098, 2017-12-01	BF Gameserver (with extensions)

Test report replacements and extensions may apply.

1 Description of the game

Lucky Symbols is a 3-reel, 3-row video slot with 27 ways to win. Ways to win means that players win any time they spin a winning combination from left to right on the reels. Winning combinations are achieved by landing identical symbols, at any position on adjacent reels, and in any form of 'line'. Winning combinations start on the first reel on the left (excluding the SCATTER Symbol) and run along to the last reel on the right. Only the highest winning combination of one symbol is paid out. Other combinations from the same symbol are rejected. Landing three or more SCATTER symbols on the reels will trigger 15 Free Spins. All 4 symbols: Fish, Turtle, Frog and Foo Dog are stacked symbols. If 9 identical symbols land on the screen, then winning is tripled (x3).

Free_spins

Landing three or more SCATTER symbols will trigger 15 Free Spins. If Free Spins are re-triggered, the player unlocks 15 extra Free Spins, which are added to the current number of Free Spins. Free Spins are played using the same trigger bet and paylines that were active during the normal gameplay mode in which Free Spins were triggered. During Free Spins an alternate set of reels is used.

Wild_symbol

WILDS can appear on all reels and substitute for all other symbols except for the SCATTER symbol. Only one WILD can appear on each reel. WILD and SCATTER symbols cannot appear simultaneously on the same reel. Combinations using only WILD symbols can create wins.

Scatter_symbol

SCATTER symbols can appear on all reels. Only one SCATTER can appear on each reel. WILD and SCATTER symbols cannot appear on the same reel. Landing three or more SCATTER symbols will trigger 15 Free Spins. It is not possible to generate winnings by a combination of SCATTER symbols only. WILD and SCATTER symbols cannot appear simultaneously on the same reel.

2 Pay-glass / artwork illustrations or photos







3 Payback ratio

3.1 Payback ratio determination method

The payback ratio value (return to player) was derived using simulation.

3.2 Payback ratio results

Lucky Symbols	
Declared by manufacturer	Verified by test laboratory
96,12%	96,05%

4 Test summary

The following tests for the game were performed:

- Calculation of the payback ratio,
- Conditions and settings for compliance with test criteria,
- Verification of the information to the player.

Test Report Annex: Software analysis

Test report No.:
T-J0005-I0145
Checklist references:
T-J0005-I0147-WN404.xls
T-J0005-I0147-WN505-S-32768.xls
Test report references (if applicable):
N.A.
Internal procedure and issue:
WN204, 07 / 2019-01
Remarks:
N.A.
Date annex completed:
2019-01-07
Tested by [signature]:
Gregor Zakrajšek



1 Software identification

Software version(s): engin3; 1.0

Software components:

Manufacturer, product ID	Description, function	Media, type	Position, circuit	Size	ID code (SHA1)	ID code (MD5)
Bee-Fee, libwildjack.so, 1.2	Game library	HDD / SSD	\	193,26 KB	c85b1dfc448 1c2310175ff a2785c83a85 df8e2fd	587b1ec8 ffc0caaa 97a182af 98ce18b4
Bee-Fee, index.html	Common game main page	HDD / SSD	\	2,64 KB	da20362986f e5907f73404 3b9e3d921c0 07071b1	6d5c6a09 f84e3634 e0c076b2 52306690
Bee-Fee, autoplay_console.css	Common game graphics file	HDD / SSD	media\common\autoplay\	1,81 KB	d65f32fa195 3d3c9aa669b 48832610adc 83aae49	38b1a205 42e167c2 1322b8ad 2de39c89
Bee-Fee, autoplay_console.html	Common game page	HDD / SSD	media\common\autoplay\	1,25 KB	88cba579f95 ed5e094596f da05cf86a22 23ae2cf	94ede233 6497ce1a 462cb940 73e15b8b
Bee-Fee, autoplay_spin_counter.css	Common game graphics file	HDD / SSD	media\common\autoplay\	340 bytes	03e4e5c1ec0 398c36896f0 c6431225d46 659c167	3501f838 4d211526 929c7dae 296bbd0b
Bee-Fee, autoplay_spin_counter.html	Common game page	HDD / SSD	media\common\autoplay\	302 bytes	b6d7da6845f 58cc753aa4f ffc43392648 28e70b3	b572d346 ae2e6596 36d9530e da926a51
Bee-Fee, fullscreenlock.css	Common game graphics file	HDD / SSD	media\common\fullscreenlock\	297 bytes	48fb5cbc906 6afbde16a69 76b8e684a5a 201d741	c2352edd 82e20717 828b6843 99c5efc7
Bee-Fee, fullscreenlock.html	Common game page	HDD / SSD	media\common\fullscreenlock\	33 bytes	9de289b8241 faced86c991 25da109e773 8a8a81d	8da963c8 0ab29e2c 3a96c137 69821bd1
Bee-Fee, common_en.json	Common graphics configuration file	HDD / SSD	media\common\localization\	1,85 KB	6b3fee13ae7 23e72f62be4 29e24136cfa b8f5812	730a7f7f a6864998 ebbc50e2 369d5047
Bee-Fee, notifications.css	Common game graphics file	HDD / SSD	media\common\notifications\	371 bytes	a9e3673f9c6 be5d45a2fa9 6c5fec4ef48 0aaa026	cdd9f70b 686289db ca77f67e 4b685618
Bee-Fee, notifications.html	Common game page	HDD / SSD	media\common\notifications\	104 bytes	333752f48ed 9b61c43f616 ec94f06239c d23c76c	df0b4e20 ccee9177 b36f076c c434f5b3
Bee-Fee, realitycheck.css	Common game graphics file	HDD / SSD	media\common\realitycheck\	0,92 KB	eeb91bef618 501163d460b 42dde7ec5bf e898606	06770f68 e1db9e43 9993bec9 e7126cf0



Manufacturer, product ID	Description, function	Media, type	Position, circuit	Size	ID code (SHA1)	ID code (MD5)
Bee-Fee, realitycheck.html	Common game page	HDD / SSD	media\common\realitycheck\	1,23 KB	9c68f9712471913eb962172c94de07e793fd873d	a998fce00935ad0fe50ce0c8bca33b1c
Bee-Fee, en.json	Localization file	HDD / SSD	media\games\lucky_symbols\localization\	1,89 KB	9ecaf1f1586ad145a8a2cf4c2dc8cff1e6409aa9c	aced740a12f79d104d1f1a84eaf983bb
Bee-Fee, media_games_lucky_symbols_ls_mobile_assets_default_atlas0-png.json	Graphics configuration file	HDD / SSD	media\	6,44 KB	3af770daed082d4185acd998023b7dcab59b1cdb	5a59b70694e2e42e464a9d685e78fc15
Bee-Fee, media_games_lucky_symbols_ls_mobile_assets_default_atlas0-png.png	Game graphics file	HDD / SSD	media\	3,1 MB	8d8407d4ad4eb0889459ac93c85a299ba4337019	ae27acbd3a7ec2ba9447fd10609bed0f
Bee-Fee, media_games_lucky_symbols_ls_mobile_assets_default_atlas1-png.json	Graphics configuration file	HDD / SSD	media\	16,92 KB	64edfc3b36231dd9ba2e3832edb4b5d07b80dd5c	a1a18d98925de4e7af02af4e2975a462
Bee-Fee, media_games_lucky_symbols_ls_mobile_assets_default_atlas1-png.png	Game graphics file	HDD / SSD	media\	3,56 MB	db5d9edb79d191c941d216c01a62efff50a50986e	2ca524f8333115d247f63f58ed970c51
Bee-Fee, media_games_lucky_symbols_ls_mobile_assets_default_atlas2-png.json	Graphics configuration file	HDD / SSD	media\	28,81 KB	1a87d4fdaed631f242c89cb0b5e6d1f34a7c877	958f35ede29febb8f32b772fb83037b8
Bee-Fee, media_games_lucky_symbols_ls_mobile_assets_default_atlas2-png.png	Game graphics file	HDD / SSD	media\	4,49 MB	a58574f2c33b20424072802e85998542a029283e	4fda848abe6931e5eb62915bbe5d1e00
Bee-Fee, media_games_lucky_symbols_ls_mobile_assets_default_atlas3-png.json	Graphics configuration file	HDD / SSD	media\	12,65 KB	721c1c21b5b656d9890b78195a37d7d8ecc11cfc	6357739196ab9346b10951508582e149
Bee-Fee, media_games_lucky_symbols_ls_mobile_assets_default_atlas3-png.png	Game graphics file	HDD / SSD	media\	0,8 MB	ac090a30c14dab05be57802a16535855a1bdd797	fd7a94d752518938323881f5933f3b72
Bee-Fee, media_games_lucky_symbols_ls_mobile_en_assets_default_atlas0-png.json	Graphics configuration file	HDD / SSD	media\	1,74 KB	7037249705cc7e7dede538e254d565f5c103650a	b831a76280af78ebad1318c70730948b
Bee-Fee, media_games_lucky_symbols_ls_mobile_en_assets_default_atlas0-png.png	Game graphics file	HDD / SSD	media\	1,22 MB	56642b616ee714a319ba209310a949873a0151c7	c684db6583953cb140dfa7682b415002



Manufacturer, product ID	Description, function	Media, type	Position, circuit	Size	ID code (SHA1)	ID code (MD5)
Bee-Fee, media_games_lucky_symbols_l s_web_assets_default_atlas0- jpg.jpg	Game graphics file	HDD / SSD	media\	68,89 KB	eb28d78ee08 06941f32de9 11ddcacabb9 02c7d34	4ea66e96 3afd1a22 84c85545 e41dd351
Bee-Fee, media_games_lucky_symbols_l s_web_assets_default_atlas0- jpg.json	Graphics configuration file	HDD / SSD	media\	664 bytes	3c54f04bbac 2f03547b253 1074e074a79 702768f	359a171b 0c1a5d9d 0080f58d 7fc733f3
Bee-Fee, media_games_lucky_symbols_l s_web_assets_default_atlas0- png.json	Graphics configuration file	HDD / SSD	media\	56,91 KB	a41dbb6e008 4ff1cc80c37 b0b36e2f102 e638165	8c8c79d7 d630295d 8e64da63 2223a1a6
Bee-Fee, media_games_lucky_symbols_l s_web_assets_default_atlas0- png.png	Game graphics file	HDD / SSD	media\	14,21 MB	d1ab3915ef5 6e6bb7c2daa 6c0de3e87a5 f97f881	797e19ef caf7bc23 d80c179c 47d05fcc
Bee-Fee, media_games_lucky_symbols_l s_web_assets_default_atlas1- png.json	Graphics configuration file	HDD / SSD	media\	3,14 KB	bc06fdc23ed 677b44dc4fd adc70c06d24 4e0f1b0	9e6ce8a4 73c87015 a8d0c42b 4aa959d5
Bee-Fee, media_games_lucky_symbols_l s_web_assets_default_atlas1- png.png	Game graphics file	HDD / SSD	media\	400,72 KB	94b3c1b622e 73ac845d81f c3d79c76235 e4e604a	8fdfa6da 2661c0be b030d7ec ffa3a897
Bee-Fee, media_games_lucky_symbols_l s_web_en_assets_default_atlas 0-png.json	Graphics configuration file	HDD / SSD	media\	1,74 KB	4551af98a56 994fa999d8c 3b99ae1fef6 336f00c	0c59757c 7436996e 7eb41f39 1b6f6f8f
Bee-Fee, media_games_lucky_symbols_l s_web_en_assets_default_atlas 0-png.png	Game graphics file	HDD / SSD	media\	2,2 MB	11119537748 665c46e0928 97665048bbd 8c0bd91	5feccaf7 125cb162 ac7cfba7 827fb416
Bee-Fee, media_games_lucky_symbols_l s_mobile.js	Client-side logic	HDD / SSD	\	394,3 KB	b2715b9285f 718b02d214a 9bcbf53409b 8d3cfd7	966b7d4c 129a775b 1b60a3a9 5033f17a
Bee-Fee, media_games_lucky_symbols_l s_mobile_assets.json	Graphics configuration file	HDD / SSD	\	9,6 KB	7b7b233d118 24efa01a4dc dd430b51a2b a0c850b	3f0f5d61 4f909491 63de403b 7999a4df
Bee-Fee, media_games_lucky_symbols_l s_mobile_en_assets.json	Graphics configuration file	HDD / SSD	\	185 bytes	ddce0bebf3e fedb06de0f8 3938e9abd92 9669ad4	23fef4c2 0e8e8e6d ffc656ed 8e971ad5
Bee-Fee, media_games_lucky_symbols_l s_web.js	Client-side logic	HDD / SSD	\	286,01 KB	918a3b44c9a 44dd1c14de1 361d3d72575 f8807a4	4d717982 59f4a840 4f6f6d28 e104d510
Bee-Fee, media_games_lucky_symbols_l s_web_assets.json	Graphics configuration file	HDD / SSD	\	9,72 KB	265bd169d3f e9c8113b2a4 91dc26b4070 84abd13	b29d3278 a8dcf435 e8fab284 626b1e0e



Manufacturer, product ID	Description, function	Media, type	Position, circuit	Size	ID code (SHA1)	ID code (MD5)
Bee-Fee, media_games_lucky_symbols_ s_web_en_assets.json	Graphics configuration file	HDD / SSD	\	179 bytes	50149013d4b 8418543c6a9 f9f7af76ea8 1565c61	2dab48f8 8fc4a51b b3e9e452 5a299015

2 Test summary

Software analysis for the game was performed:

- Source code analysis:
 - o Jurisdiction independent tests: software review.
 - o Jurisdiction dependent tests.
- Binary code authentication.
- Archiving and depositing.