REFERENCE APPENDIX

Result verification and settlement

ENGLISH

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G11

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Events TR-FR-DEMO-01

I opened the demo 06.11.2026 in 10:04 CET on Samsung Galaxy S25 FE. In each pair of rows I first accounted for the accepted debit, then the single payout or refund. After the last settlement I checked the history and ended the session in 10:31 CET; pauses between cycles are not included in the acceptance delay.

Events TR-FR-DEMO-01

Event	Sending/settlement CET	Acceptance CET	Delay ms	Type	Debit FUN	Credit FUN	Balance FUN
TR-FR-D01-D	10:04:00.000	10:04:00.379	379	stake	12.50	0.00	737.50
TR-FR-D01-C	10:04:24.000	—	—	payout	0.00	0.00	737.50
TR-FR-D02-D	10:05:05.000	10:05:05.253	253	stake	15.50	0.00	722.00
TR-FR-D02-C	10:05:29.000	—	—	payout	0.00	21.70	743.70
TR-FR-D03-D	10:06:10.000	10:06:10.197	197	stake	17.50	0.00	726.20
TR-FR-D03-C	10:06:34.000	—	—	payout	0.00	0.00	726.20
TR-FR-D04-D	10:07:15.000	10:07:15.337	337	stake	6.00	0.00	720.20
TR-FR-D04-C	10:07:39.000	—	—	payout	0.00	21.60	741.80
TR-FR-D05-D	10:08:20.000	10:08:20.260	260	stake	19.50	0.00	722.30
TR-FR-D05-C	10:08:44.000	—	—	payout	0.00	35.10	757.40
TR-FR-D06-D	10:09:25.000	10:09:25.302	302	stake	16.00	0.00	741.40
TR-FR-D06-C	10:09:49.000	—	—	payout	0.00	0.00	741.40
TR-FR-D07-D	10:10:30.000	10:10:30.337	337	stake	12.50	0.00	728.90
TR-FR-D07-C	10:10:54.000	—	—	payout	0.00	31.25	760.15
TR-FR-D08-D	10:11:35.000	10:11:35.323	323	stake	3.50	0.00	756.65
TR-FR-D08-C	10:11:59.000	—	—	payout	0.00	10.50	767.15
TR-FR-D09-D	10:12:40.000	10:12:40.169	169	stake	5.00	0.00	762.15
TR-FR-D09-C	10:13:04.000	—	—	payout	0.00	5.00	767.15
TR-FR-D10-D	10:13:45.000	10:13:45.239	239	stake	6.00	0.00	761.15
TR-FR-D10-C	10:14:09.000	—	—	payout	0.00	0.00	761.15
TR-FR-D11-D	10:14:50.000	10:14:50.260	260	stake	5.50	0.00	755.65
TR-FR-D11-C	10:15:14.000	—	—	payout	0.00	8.25	763.90
TR-FR-D12-D	10:15:55.000	10:15:55.176	176	stake	4.00	0.00	759.90
TR-FR-D12-C	10:16:19.000	—	—	refund	0.00	4.00	763.90
TR-FR-D13-D	10:17:00.000	10:17:00.351	351	stake	6.50	0.00	757.40
TR-FR-D13-C	10:17:24.000	—	—	payout	0.00	0.00	757.40
TR-FR-D14-D	10:18:05.000	10:18:05.134	134	stake	5.50	0.00	751.90
TR-FR-D14-C	10:18:29.000	—	—	payout	0.00	20.63	772.53

Events TR-FR-DEMO-01

Event	Sending/settlement CET	Acceptance CET	Delay ms	Type	Debit FUN	Credit FUN	Balance FUN
TR-FR-D15-D	10:19:10.000	10:19:10.344	344	stake	12.00	0.00	760.53
TR-FR-D15-C	10:19:34.000	—	—	payout	0.00	0.00	760.53
TR-FR-D16-D	10:20:15.000	10:20:15.183	183	stake	7.00	0.00	753.53
TR-FR-D16-C	10:20:39.000	—	—	payout	0.00	0.00	753.53
TR-FR-D17-D	10:21:20.000	10:21:20.379	379	stake	20.50	0.00	733.03
TR-FR-D17-C	10:21:44.000	—	—	payout	0.00	42.03	775.06
TR-FR-D18-D	10:22:25.000	10:22:25.386	386	stake	5.50	0.00	769.56
TR-FR-D18-C	10:22:49.000	—	—	payout	0.00	6.60	776.16
TR-FR-D19-D	10:23:30.000	10:23:30.267	267	stake	14.50	0.00	761.66
TR-FR-D19-C	10:23:54.000	—	—	payout	0.00	0.00	761.66
TR-FR-D20-D	10:24:35.000	10:24:35.267	267	stake	18.50	0.00	743.16
TR-FR-D20-C	10:24:59.000	—	—	payout	0.00	28.68	771.84
TR-FR-D21-D	10:25:40.000	10:25:40.267	267	stake	5.50	0.00	766.34
TR-FR-D21-C	10:26:04.000	—	—	payout	0.00	0.00	766.34
TR-FR-D22-D	10:26:45.000	10:26:45.365	365	stake	21.00	0.00	745.34
TR-FR-D22-C	10:27:09.000	—	—	payout	0.00	44.10	789.44
TR-FR-D23-D	10:27:50.000	10:27:50.260	260	stake	9.00	0.00	780.44
TR-FR-D23-C	10:28:14.000	—	—	payout	0.00	0.00	780.44
TR-FR-D24-D	10:28:55.000	10:28:55.337	337	stake	5.00	0.00	775.44
TR-FR-D24-C	10:29:19.000	—	—	payout	0.00	8.00	783.44

Edge cases

Edge cases

ID	Entry	Settlement and result
TR-FR-E01	Bet 17,50 FUN, Frozen 2,5×, then fall	Protection 43,75 FUN. Gross 43,75, net 26,25 FUN.
TR-FR-E02	Same bet, Frozen 2,5×, then successful floor 1,5× and Cashout	Gross 65,63 FUN after half-up rounding to 0,01. Net 48,13 FUN. Protection is included within gross.
TR-FR-E03	12,50 FUN, accumulated 2,2×, Temple sector 3×	12,50 × 2,2 × 3 = 82,50 FUN. Net 70,00 FUN.
TR-FR-E04	50,00 EUR, raw total 64×, limit 2 500 EUR	min(3 200; 2 500) = 2 500 EUR. Net 2 450 EUR. Effective ratio 50× in this row.
TR-FR-E05	Gap before server accepted	Debit 0. On a repeat of the previous request_id, the history is checked before creating a new one.
TR-FR-E06	Gap after acceptance of bet 6,50 FUN, confirmed total 1,8×	After recovery, the history returns gross 11,70 FUN, net 5,20 FUN. Reopening leaves one payout.
TR-FR-E07	13,00 FUN, pending, then void	On pending, 13,00 FUN obligations are reflected. After refund 13,00 FUN the obligation 0, net 0, comparable turnover 0.
TR-FR-E08	Protected gross already at cap and repeat of the last request	The final status and the original settlement_id take priority. The repeat reads the same settlement.

GR11 · Result verification

GR11 · Result verification

ID	Parameter	Scope, condition and result
GR11-02	Protocol version	The card publishes the general description RNG/PF, the protocol version of a specific vector relates to its source
GR11-03	Pre-commitment algorithm	The commitment algorithm is determined by the specific protocol Tower Rush; the description RNG is considered separately
GR11-04	Commitment publication time	The commitment is published before bet acceptance according to the protocol; the order is fixed by the recording time
GR11-05	Final input fixation time	Input fixation relates to a specific round, before the final digest is computed
GR11-07	Client seeds and their order	Client seed and order relate to the vector of this round, the rules of another game do not apply
GR11-08	Nonce or additional input	Nonce from the protocol of the source vector, the arithmetic log does not use nonce
GR11-09	Input string serialization	Reproduction uses the exact bytes, encoding and separators
GR11-10	Final digest algorithm	The published protocol Tower Rush determines the final digest algorithm; substituting SHA from another game is not permissible
GR11-11	Computed full digest	The full digest is tied to the corresponding round_id. The game arithmetic TR-FR is considered separately
GR11-12	Number extraction method	Number extraction is determined by the protocol, separately from the conversion into the result
GR11-13	Number from the digest	The number is determined by the full vector; multipliers and digest bytes are considered separately
GR11-14	Conversion of the number into the outcome	The formula for converting the number into the outcome is defined by the protocol of the corresponding version Tower Rush
GR11-15	Commitment match	Commitment matching is performed according to the protocol of the specific round; the description RNG is considered separately
GR11-16	Full digest match	Full digest matching is performed over the full vector; the shortened ID is considered together with the full vector
GR11-17	Recalculated result	Gross/net of the game rows have been calculated; the result PF is tied to the protocol verification
GR11-18	Scope of the verification result	The reproducible verification covers the arithmetic of §3 and the protocol of §2

GR14 · Settlement and journal

GR14 · Settlement and journal

ID	Parameter	Scope, condition and result
GR14-02	Source of bet funds	FUN in the D journal, EUR in CASH-FR, promo separately
GR14-07	Event settlement status	Settled and void are separated; pending example E07
GR14-08	Void cash refund	4.00 FUN в TR-FR-D12
GR14-10	Number of accepted bets	24 accepted in DEMO-01; one bet per cycle
GR14-13	Net gaming result of the selected events	33.44 FUN в DEMO-01
GR14-14	Balance after each event	The intermediate balance after each debit and payout/refund is shown in the event table TR-FR-DEMO-01; after each cash movement — in LEDGER-FR. The reserve reduces the available amount but not the total remainder.
GR14-16	Reason for ending the session or settlement run	The specified window of 27 minutes has completed, not a bankroll stop
GR14-17	Amount of outstanding liabilities	0 FUN at the end of DEMO-01