OPENTOTE

OpenTote Updates Web Service

Version 1.8

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3   About this Document

The OpenTote Updates Web Service allows the OpenTote system to proactively deliver system events to the Merchant. These include racecard updates, pool changes, odds and willpays. This document explains how to make use of the web service.

This document is part of a package of documents and files for use by Merchants in managing their connection to OpenTote servers. It makes reference to these documents as necessary, to avoid duplication.

Document Structure

In section 5 the mechanics of establishing a connection are described. Section 6 lays out each of the web service messages that the Merchant must implement. Section 7 gives samples of the API calls.

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This document can only serve as a description of the API processes and is subject to modifications.

4 Change History

Version	Changes
1.0	Initial revision of the document
1.1	Removed erroneous items from Finisher Element description. Updated WSDL URLs
1.2	Renamed all operation and message types to use underscore instead of hyphen
1.4	Correct invalid URLs
1.5	Update included push messages (as dependent on tote provisions)
1.6	Updated title
1.7	Added RUNNER_NAME event
1.8	Corrected various "Changes" Keys

5   Connection Process

I-Neda publish a web service description (WSDL) for the updates service. The Merchant must implement a server to receive messages according to this WSDL. Once the pre-conditions below have been met, and the system enabled for the merchant, a client process in the OpenTote system will send messages to the merchant server(s).

Communication may be over secure or non-secure HTTP, to any TCP/IP port number.

The WSDL consists of 3 files, available at www.opentote.com:

> www.opentote.com/xml/OpenTotePush.wsdl
> www.opentote.com/xml/OpenTotePushPortType.wsdl
> www.opentote.com/xml/opentote_push_port_type_schema.xsd

5.1 Pre-conditions

Please make sure that all relevant commercial agreements have been made with OpenTote, before you start setting up the connection.

You will be required to provide the following connection information:

Merchant IP addresses	These are the external IP addresses that the OpenTote web service client will attempt to connect to. For security reasons, we will restrict outgoing traffic to these systems.
Web Service URLs	These are the web service endpoints on the Merchant systems that the OpenTote web service client will send messages to.

You will be supplied with the source IP addresses that will be emitting the web service messages. For your own security, we advise that your server accepts messages only from these IP addresses.

6   Web Service Methods

This section describes the web service methods currently implemented. Several of these methods, such as New race card, provide only race card or pool identities. The Merchant system is expected to then retrieve the current information by means of a call to either the OpenTote XML API, or the OpenTote Web Services Interface. For brevity, these two services are referred to as the "pull API".

6.1 Latency

Due to the nature of the connections to third party suppliers, there will be varying time lags between the information being generated by the supplier and the web service message being sent. Usually this latency will be just a few seconds, but in some cases it can be as long as a minute.

6.2 Update Elements

The "-update" messages will contain one or more elements showing what has changed. The element format is referred to as a "Property" element, and has this form:

<changes key="*fieldname*">*value*</changes>

For example, with runner changes you may see:

> <changes key="JOCKEY">Bob Bloggs</changes>
> <changes key="POST_POSITION">3</changes>

Unless otherwise stated, the change values are as defined in the pull API documentation. Please note that not all changes may be available on individual race cards, as the information available depends on where OpenTote sources its race data.

As this service develops, new change keys will become available. The Merchant is advised to introduce flexibility in their implementation to allow for this.

6.3 Messages

Following are the methods and their descriptions currently provided by OpenTote.

Message	Description
new_card	Message sent when a new race card is made available on the system
card_status_update	Message sent when a race card status changes
card_details_update	Message sent when a race card-level information changes
race_status_update	Message sent when a race status changes

race_details_update	Message sent when race-level information changes
race_finishers	Message sent when the finish order for a race becomes known
runner_status_update	Message sent when a runner is scratched or unscratched
runner_details_update	Message sent when runner information is changed
pool_status_update	Message sent when a pool's status changes
pool_details_update	Message sent when details of a pool changes
pool_odds_update	Message sent periodically with the current pool odds
pool_willpays_update	Message sent periodically with the current pool willpays (not available on all totes)
pool_payouts	Message sent when a pool's payout information becomes known
system_message	This message is used to convey system information alerts

6.4 new_card

The new-card message is used to notify the Merchant system that a new race card has been created on the OpenTote system. The Merchant system should then capture the race card information by means of the pull API.

6.4.1 Element Description

Element	Format	Mandatory	Description
timestamp	UTC timestamp	Yes	The event timestamp.
card id	long integer	Yes	The card identifier
card name	alphanumeric	Yes	The name of the race card

6.5 card_status_update

This message is raised when a race card status changes.

6.5.1 Element Description

Element	Format	Mandatory	Description
timestamp	UTC timestamp	Yes	The event timestamp.
card id	long integer	Yes	The card identifier
card name	alphanumeric	Yes	The name of the race card
new status	alphanumeric	Yes	The new race card status

6.5.2 Valid Race Card Statuses

Status	Description
UNAVAILABLE	This card is not yet available for wagering
OPEN	Available for wagering
CLOSED	All pools closed, but not yet official
FINISHED	All races have been run

6.6 card_details_update

This message is raised when some race card-level detail has changed. The detail that has changed is present in the message.

6.6.1 Element Description

Element	Format	Mandatory	Description
timestamp	UTC timestamp	Yes	The event timestamp.
card id	long integer	Yes	The card identifier
card name	alphanumeric	Yes	The name of the race card
changes	Property	(one or more)	An element that has changed.

6.6.2 Valid Card Changes Keys

Key	Description
CURRENT_RACE	The current race has changed
MTP	Minutes to post on current race
CARD_NAME	The name of the race card
BETTING_AVAILABLE	(reserved for future use)
RACING_OVER	(reserved for future use)
CURRENT_TEMP	Current temperature on track
NOTES	Notes about the race card
TRACK_COND_CODE	Current track conditions (coded value)
TURF_COND_CODE	Current turf conditions (coded value)
WEATHER_COND	Current weather conditions (free-format description)

6.7 race_status_update

This message is raised when a race status changes.

6.7.1 Element Description

Element	Format	Mandatory	Description
timestamp	UTC timestamp	Yes	The event timestamp.
card id	long integer	Yes	The card identifier
card name	alphanumeric	Yes	The name of the race card
race number	long integer	Yes	The race number
new status	alphanumeric	Yes	The new race card status

6.7.2 Valid Race Statuses

Status	Description
UNAVAILABLE	This race is not yet available for wagering
OPEN	Available for wagering
OFF	The race is currently running
FINISHED	The race is run and finish order is known

6.8 race_details_update

This message is raised when some race-level detail has changed. The detail that has changed is present in the message.

6.8.1 Element Description

Element	Format	Mandatory	Description
timestamp	UTC timestamp	Yes	The event timestamp.
card id	long integer	Yes	The card identifier
card name	alphanumeric	Yes	The name of the race card
race number	long integer	Yes	The race number
changes	Property	(one or more)	An element that has changed.

6.8.2 Valid Race Changes Keys

Key	Description
RACE_TIME	The current race's post time
MTP	(reserved for future use)
FINISH	(reserved for future use)
BREED_TYPE	The permitted breed type for runners

RACE_TYPE	The type of race (e.g. claiming)
RESTRICTIONS	Any other restrictions on the runners
AGE_RESTRICTION	Runner age restriction
SEX_RESTRICTION	Runner sex restriction
PURSE	The race purse
MIN_CLAIMING_PRICE	The minimum claiming price for the race
MAX_CLAIMING_PRICE	The maximum claiming price for the race
DISTANCE_TEXT	The race distance
SURFACE	The type of surface the race will run on
RACE_GRADE	The race grade
CONDITIONS	(reserved for future use)
RACE_TYPE_DESC	The description of the race
NUM_RUNNERS	(reserved for future use)

6.9 race_finishers

This message is raised when the race finish order becomes known. In general, only the first 4-5 finishers will be shown.

6.9.1 Element Description

Element	Format	Mandatory	Description
timestamp	UTC timestamp	Yes	The event timestamp.
card id	long integer	Yes	The card identifier
card name	alphanumeric	Yes	The name of the race card
race number	long integer	Yes	The race number
finishers	Finisher	(one or more)	A finisher

6.9.2 Finisher Element Description

Attribute	Format	Mandatory	Description
position	long integer	Yes	The finish position (1 = first)
program-number	alphanumeric	Yes	The runner's program number
betting-interest-number	alphanumeric	Yes	The name of the race card

6.10 runner_status_update

This message is raised when a runner is scratched or unscratched.

6.10.1 Element Description

Element	Format	Mandatory	Description
timestamp	UTC timestamp	Yes	The event timestamp.
card id	long integer	Yes	The card identifier
card name	alphanumeric	Yes	The name of the race card
race number	long integer	Yes	The race number
program-number	alphanumeric	Yes	The runner that has changed
new status	alphanumeric	Yes	The new race card status

6.10.2 Valid Runner Statuses

Status	Description
SCRATCHED	This runner will not run
AVAILABLE	Available for betting

6.11 runner_details_update

This message is raised when runner information is changed.

6.11.1 Element Description

Element	Format	Mandatory	Description
timestamp	UTC timestamp	Yes	The event timestamp.
card id	long integer	Yes	The card identifier
card name	alphanumeric	Yes	The name of the race card
race number	long integer	Yes	The race number
program-number	alphanumeric	Yes	The runner that has changed
changes	Property	(one or many)	The information that has changed

6.11.2 Valid Runner Change Keys

Key	Description
JOCKEY	The runner's jockey
WEIGHT_CARRIED	The handicapping weight carried
MEDICATION	Any medication changes
EQUIPMENT	Any equipment changes

RUNNER_NAME	The name of the runner
RUNNING_AS_NAME	The name the runner is using, if different from their normal name
POST_POSITION	The runner's post position

6.12 pool_status_update

This message will be raised when a pool's status changes.

6.12.1 Element Description

Element	Format	Mandatory	Description
timestamp	UTC timestamp	Yes	The event timestamp.
card id	long integer	Yes	The card identifier
card name	alphanumeric	Yes	The name of the race card
first-leg-race	long integer	Yes	The race number of the first leg of this pool
pool-id	long integer	Yes	The pool unique identifier
pool-code	alphanumeric	Yes	The pool short code (e.g. WIN, PLC, JPT)
new-status	alphanumeric	Yes	The new pool status

6.12.2 Valid Pool Statuses

Status	Description
UNAVAILABLE	This pool is not available for wagering
OPEN	Available for wagering
CLOSED	Not available because the race has begun
OFFICIAL	Results are in
PENDING	Results are temporarily delayed
PAYING_IN_PROGRESS	Tickets are being cashed
PAYING_COMPLETE	Ticket payouts are now available via the pull API

6.13 pool_detail_update

This message will be raised when pool details have been changed. Because these details are heavily interdependent (such as minimum and maximum stake amounts), the changes are not present in this message. Instead, the Merchant should reload the complete pool information using the pull API.

6.13.1 Element Description

Element	Format	Mandatory	Description
timestamp	UTC timestamp	Yes	The event timestamp.
card id	long integer	Yes	The card identifier
card name	alphanumeric	Yes	The name of the race card
first-leg-race	long integer	Yes	The race number of the first leg of this pool
pool-id	long integer	Yes	The pool unique identifier
pool-code	alpha	Yes	The pool short code (e.g. WIN,PLC,JPT)

6.14 pool_odds_update

This message will be raised periodically to give the current pool odds.

6.14.1 Element Description

Element	Format	Mandatory	Description
timestamp	UTC timestamp	Yes	The event timestamp.
card id	long integer	Yes	The card identifier
card name	alphanumeric	Yes	The name of the race card
first-leg-race	long integer	Yes	The race number of the first leg of this pool
pool-id	long integer	Yes	The pool unique identifier
pool-code	alpha	Yes	The pool short code (e.g. WIN,PLC,JPT)
odds	Odds	Yes	The current pool odds
currency-code	alphanumeric	Yes	The pool currency

6.14.2 Odds Element Description

The odds element format is as defined in the pull API.

6.15 pool_willpays_update

This message will be raised periodically to give the current pool willpays, for qualifying pools. (*not available on all totes*)

6.15.1 Element Description

Element	Format	Mandatory	Description
timestamp	UTC timestamp	Yes	The event timestamp.
card id	long integer	Yes	The card identifier

Element	Format	Mandatory	Description
card name	alphanumeric	Yes	The name of the race card
first-leg-race	long integer	Yes	The race number of the first leg of this pool
pool-id	long integer	Yes	The pool unique identifier
pool-code	alpha	Yes	The pool short code (e.g. WIN,PLC,JPT)
willpay	Willpay	Yes	The current pool willpay information
currency-code	alphanumeric	Yes	The pool currency

6.15.2 Willpay Element Description

The willpay element format is as defined in the pull API.

6.16 pool_payouts

This message will be raised periodically to give the pool's official payout. This is also known as "prices".

6.16.1 Element Description

Element	Format	Mandatory	Description
timestamp	UTC timestamp	Yes	The event timestamp.
card id	long integer	Yes	The card identifier
card name	alphanumeric	Yes	The name of the race card
first-leg-race	long integer	Yes	The race number of the first leg of this pool
pool-id	long integer	Yes	The pool unique identifier
pool-code	alpha	Yes	The pool short code (e.g. WIN,PLC,JPT)
payouts	PoolPayout	Yes	The payout information
currency-code	alphanumeric	Yes	The pool currency

6.16.2 PoolPayout Element Description

The payout element format is as defined in the pull API.

6.17 system_message

This message is used by the OpenTote operators to provide ad-hoc information and alerts to the Merchant.

6.17.1 Element Description

Element	Format	Mandatory	Description

Element	Format	Mandatory	Description
timestamp	UTC timestamp	Yes	The event timestamp.
message id	alphanumeric	Yes	The message identifier
message text	alphanumeric	Yes	Free-format message text

6.17.2 Standard System Messages

Message	message-id contents:	message-text contents:	Description
Heartbeat	A unique identifier	"heartbeat"	This message will be sent periodically to verify to the merchant that the OpenTote updates system is active. Additionally, it verifies to OpenTote that the merchant system is reachable and active.