

Mustard - DL Messages Differences

This doc attempts to outline the exact differences between the Mustard url, connection and market messages and the same for the IMGGA/DL service. This doc compares the messages from both services to determine the gaps.

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URL Differences

Upon testing the connection you will be prompted to connect to an IMGGA url (rather than Mustard). Note both urls are running in parallel between now and 12th August. From 12th August onwards, the Mustard service will deprecate and the only service will be the new IMGGA/DL service.

Examples below:

Before

- **Mustard (Staging)** - ssh xenophobe-[username]-staging.mustardsystems.com -p 2093 -T -i [private key path]
- **Mustard (Prod)** - ssh xenophobe-[username]-prod.mustardsystems.com -p 2093 -T -i [private key path]

After

- **IMGA/DL (Staging)** - ssh -i [generated private key file path] [username]@golf-odds-distribution.staging.imgarena.dev -p 22 **(we support port 22 and 2093)**
- **IMGA/DL (Prod)** - ssh -i [generated private key file path] [username]@golf-odds-distribution.services.imgarena.com -p 22 **(we support port 22 and 2093)**

Connecting

To establish the initial SSH connection, you should use your username as well as your private key for authentication. After connection, the client should then send this message::

```
{ "request": "init", "msg": {} }
```

Please note, if an "init" request isn't made within 10 seconds of connecting you will be disconnected. We will not start heartbeating a connection until after this "init" request has been made.

After this, the server will send push messages detailing the current offering on the feed:

- The sport message: {"mode":"push","msg":{"id":"sp.golf","name":"Golf"},"type":"sport","publish_time":"2025-03-14 08:50:11.331473"}
- One or more competition messages; these are the "tours" that have upcoming, or in-progress events (tournaments):

```
1 {
2   "mode": "push",
3   "msg": {
4     "id": "comp.golf_1",
5     "name": "PGA Tour",
6     "sport_id": "sp.golf",
7     "arena_id": "1"
8   },
9   "type": "competition",
10  "publish_time": "2025-03-14 08:50:11.331473",
11  "is_recovery": false
12 }
```

- One or more **event** messages; these list the tournaments that are either in progress or upcoming:

```
{
1  {
2    "mode": "push",
3    "msg": {
4      "id": "ev.golf_1100",
5      "name": "THE PLAYERS Championship",
6      "competition_id": "comp.golf_1",
7      "arena_competition_id": "1",
```

```

8   "arena_id": "1100",
9   "start_time": "2025-03-13 11:40:00.000000",
10  "stage": "in_play",
11  "meta": [
12    {
13      "event_id": "1100",
14      "offering_levels": [
15        "M1"
16      ]
17    }
18  ]
19 },
20 "type": "event"
21 }

```

- **market_type** messages ; all market types that have at least one instance open at the moment:

```

1 {
2   "mode": "push",
3   "msg": {
4     "id": "mt.winonly",
5     "name": "Win Only (no each-way)"
6   },
7   "type": "market_type"
8 }

```

- **market** messages ; all markets that are currently available and open:

```

1 {
2   "mode": "push",
3   "msg": {
4     "id": "golf_1100_winonly",
5     "arena_id": "m-1",
6     "name": "Win Only",
7     "event_id": "ev.golf_1100",
8     "arena_event_id": 1100,
9     "tags": [
10      "sp.golf",
11      "mt.winonly",
12      "ev.golf_1100",
13      "comp.golf_1"
14    ],
15     "start_time": "2025-03-13 11:40:00.000000",
16     "stage": "pre_play",
17     "numwinners": 1
18   },
19   "type": "market"
20 }

```

- After `init` the odds distribution service starts to send heartbeats messages at regular intervals:

```
1 {
2   "mode": "push",
3   "type": "heartbeat",
4   "msg": {
5     "timestamp": "2025-01-01 10:00:00.000000"
6   },
7   "publish_time": "2025-01-01 10:00:00.000000"
8 }
```

The purpose of all this messaging post-init is to list everything that is currently available. The execution of the `init` command does not cause any market updates to start flowing but can be used to dynamically select from what is on offer.

To trigger the feed of market updates with actual prices, a subscription is needed. Note that just because a market type is not listed in this init snapshot only means there is none currently available but it remains possible to subscribe to those nonetheless.

The response to the "init" request will contain a unique `session_id`. Please provide this session id when raising any queries regarding the messages received for a given session.

If we have to close your connection for any reason, you will receive a push message::

```
1 { "mode": "push", "status": "error", "session_id": <session_id>, reason": <reason>,
   "publish_time": "2025-03-20 10:05:50.353296" }
```

where `<reason>` will be one of: "no init sent", "max connections hit", "connection rate limit hit", "slow reader", "internal disconnection requested", or "service error".

In addition to rate limiting connections, API requests are also rate limited. The response to a request that breached a rate limit will be as follows::

```
1 { "mode": "resp", "status": "error", "msg": "API limit breached", "request_id": <request_id>,
   "publish_time": "2025-03-20 10:05:50.353296" }
```

where `request_id` will only be present if you provided a request ID with the original request.

Subscriptions

Client must first establish a connection and send an `init` command. However, initialising alone will not start the data flow — data will only begin streaming after a successful

subscription.

The full subscription payload (with all possible fields) looks like this: `{ "request": "subscribe", "msg": {"market_tags": ["mt.oneball_hole"], "tags": ["mt.oneball_hole"], "score_tags": []} }` This means the client subscribes to the `mt.oneball_hole` market and will receive only messages related to this market. Now, let's break down each key:

- `score_tags` is supported for backward compatibility only and its values are ignored. The client can send `"score_tags": ["sp.golf", "ev.123"]` or an empty array, but it will have no effect.
- `score_tags` can also be omitted completely. Sending `{ "request": "subscribe", "msg": {"market_tags": ["mt.oneball_hole"], "tags": ["mt.oneball_hole"]} }` will behave the same as including `score_tags` with an empty array.
- `market_tags` and `tags` are both used to filter by market, but they are not combined. If both are provided with different values, only `market_tags` will be used. It takes precedence over tags.
- So in practice, to subscribe to a specific market, you should send either `{ "request": "subscribe", "msg": {"market_tags": ["mt.oneball_hole"]} }` or `{ "request": "subscribe", "msg": {"tags": ["mt.oneball_hole"]} }`
- Both `market_tags` and `tags` accept multiple values, so you can subscribe to multiple markets by sending `"market_tags": ["mt.top_n", "mt.oneball_hole"]`
- To subscribe to all markets without filters, you can either send `"market_tags": []` or omit `market_tags` entirely by just sending `{ "request": "subscribe", "msg": {} }`
- To stop receiving feeds, please send an unsubscribe command: `{ "request": "unsubscribe", "msg": {} }`. Currently, it's not possible to unsubscribe from a specific market - this command removes the entire subscription.

- Clients will continue subscribing to markets as usual using familiar Mustard market types. Internally, we translate these Mustard market types to their DL Trading equivalents.
- If a market type can't be translated, we fall back to exact ID matching.
 - For example, if a client subscribes with `market_tags: ["SOME_MARKET_ID"]` and a feed comes with ID `tid:1235|mt:SOME_MARKET_ID|r:2`, we extract the market type (`SOME_MARKET_ID`) and check if it matches any market tag in the subscription.
- Snapshot - After a successful subscription the distribution service will return a market update for each of the currently available markets on the feed. Currently (we are working on a fix for this), these include all the markets; regardless of whether or not they fit within the filtering requested in the subscription. This snapshot allows consumers to establish a state at connection time (or re-sync; should there have been a downtime, for example cause by a disconnection)

Sport message

Here is a sample message representing a sport:

```

1  {
2    "mode": "push",
3    "msg": {
4      "name": "Golf",
5      "id": "sp.golf"
6    },
7    "type": "sport",
8    "publish_time": "2025-07-08T08:21:26.771702249",
9    "is_recovery": false
10 }

```

Competition Message

- msg id will now match previous Mustard format
- arena_id will also be added and represent the new Id system (customers can use either id or arenaId as they wish)

```

1  MUSTARD
2
3  {
4    "mode": "push",
5    "is_recovery": true,
6    "type": "competition",
7    "publish_time": "2025-05-05 03:40:58.049267",
8    "msg": {
9      "id": "comp.golf_86560",
10     "name": "European tour",

```

```

11     "sport_id":"sp.golf"
12   }
13 }
14
15 IMG/DL
16 {
17     "mode": "push",
18     "msg": {
19         "id": "comp.golf_1",
20         "name": "PGA Tour",
21         "sport_id": "sp.golf",
22         "arena_id": "1"
23     },
24     "type": "competition",
25     "publish_time": "2025-07-08T12:34:45.778476",
26     "is_recovery": false
27 }

```

Event Message

- msg id will now match previous Mustard format but the integer part will be an IMG/ DL Id
- arena_id & arena_competition_id will also be added and represent the new Id system. Customers can use either id or competition_id in the old Mustard style or arena_id or arena_competition_id as they wish.
- competition_id will now match previous Mustard format but the integer part will be an IMG/ DL Id
- The offering level will now refer to the DL trading level (as below)

DL1 markets - Full shot by shot data live (full L1 stroke by stroke data for PGA events)

DL2 markets - Most DPWT and for non-domestic PGA events that have shot by shot data (Could be L1.5/1.75)

DL3/4 - For L2 Hole by hole scorecard data tournaments with no stroke data (with the decision between the two to be driven by tournament quality/importance)

DL5 - tournaments with leaderboard level data at high latency (L3). Some may be upgraded to DL4 as necessary

```

1  MUSTARD
2
3  {
4      "mode":"push",
5      "is_recovery":true,
6      "type":"event",
7      "publish_time":"2025-05-06 10:39:02.377259",
8      "msg":{

```

```

9      "id": "ev.golf_277",
10     "name": "The CJ Cup Byron Nelson 2025",
11     "stage": "pre_play",
12     "competition_id": "comp.golf_86569",
13     "start_time": "2025-05-01 11:50:00.000000",
14     "meta": [
15         {
16             "event_id": "2851",
17             "offering_levels": [
18                 "M1"
19             ]
20         }
21     ]
22 }
23 }
24
25 IMG/DL
26
27 {
28     "mode": "push",
29     "msg": {
30         "id": "ev.golf_1121",
31         "name": "ISCO Championship",
32         "competition_id": "comp.golf_1",
33         "arena_competition_id": "1",
34         "arena_id": "1121",
35         "start_time": "2025-07-10T10:45:00Z",
36         "stage": "in_play",
37         "meta": [
38             {
39                 "event_id": "1121",
40                 "offering_levels": [
41                     "DL3"
42                 ]
43             }
44         ]
45     },
46     "type": "event",
47     "publish_time": "2025-07-10T07:39:35.082865919",
48     "is_recovery": false
49 }
50
51

```

Score Update Message

- event_id will now match previous Mustard format but the integer part will be an IMG/DL Id
- arena_event_id will also be added and represent the new Id system (customers can use either event_id or arena_event_id as they wish)
- id for players will be IMG/DL (DDE Ids), not Mustard Ids
- teamNo will be IMG/DL (DDE Ids), not Mustard Ids
- tournamentId will be IMG/DL (DDE Ids), not Mustard Ids

- Addition of publish_time

```
1 MUSTARD
2 {
3   "mode":"push",
4   "type":"score_update",
5   "msg":{
6     "event_id":"ev.golf_1345",
7     "score":{
8       "standings":[
9         {
10          "players":[
11            {
12              "displayName":"TommyFleetwood",
13              "country":"ENG",
14              "isAmateur":false,
15              "lastName":"Fleetwood",
16              "firstName":"Tommy",
17              "id":12,
18              "gender":"male"
19            }
20          ],
21          "holesThrough":{
22            "value":18,
23            "displayValue":"18"
24          },
25          "roundInfo":{
26            "1":{
27              "startHole":1,
28              "score":{
29                "value":71,
30                "displayValue":"71"
31              },
32              "teeTime":"2022-10-20T12:15:00+01:00",
33              "toPar":{
34                "value":-1,
35                "displayValue":"-1"
36              }
37            },
38            "2":{
39              "roundFinishPosition":13,
40              "score":{
41                "value":68,
42                "displayValue":"68"
43              },
44              "toPar":{
45                "value":-4,
46                "displayValue":"-4"
47              },
48              "startHole":9,
49              "roundFinishIsTied":true,
50              "teeTime":"2022-10-21T07:55:00+01:00"
51            },
52            "3":{
53              "roundFinishPosition":4,
54              "score":{
55                "value":67,
56                "displayValue":"67"
```

```
57         },
58         "toPar":{
59             "value":-5,
60             "displayValue":"-5"
61         },
62         "startHole":1,
63         "roundFinishIsTied":true,
64         "teeTime":"2022-10-22T11:40:00+01:00"
65     },
66     "4":{
67         "roundFinishPosition":14,
68         "score":{
69             "value":73,
70             "displayValue":"73"
71         },
72         "toPar":{
73             "value":1,
74             "displayValue":"1"
75         },
76         "startHole":1,
77         "roundFinishIsTied":true,
78         "teeTime":"2022-10-23T12:20:00+01:00"
79     }
80 },
81 "toParToday":{
82     "value":1,
83     "displayValue":"1"
84 },
85 "totalScore":{
86     "value":279,
87     "displayValue":"279"
88 },
89 "status":"Uncut",
90 "currentRound":4,
91 "teamNo":1,
92 "toPar":{
93     "value":-9,
94     "displayValue":"-9"
95 },
96 "position":{
97     "value":14,
98     "displayValue":"T14",
99     "order":17,
100     "format":"tied"
101 }
102 }
103 ],
104 "tournamentId":1056,
105 "timestamp":"2022-10-23T16:55:15.807Z",
106 "seqNum":6712,
107 "currentRound":{
108     "number":4,
109     "name":"Round4",
110     "cutLine":{
111         "required":false
112     }
113 },
114 "tournamentStatus":"InProgress",
```

```
115     "roundStatuses":[
116         {
117             "number":1,
118             "status":"InProgress"
119         },
120         {
121             "number":2,
122             "status":"Official"
123         },
124         {
125             "number":3,
126             "status":"Official"
127         },
128         {
129             "number":4,
130             "status":"Official"
131         }
132     ]
133 }
134 }
135 }
136
137
138 IMG/DL
139 {
140     "mode":"push",
141     "msg":{
142         "event_id":"ev.golf_1345",
143         "arena_event_id":"1109",
144         "score":{
145             "currentRound":{
146                 "cutLine":{
147                     "cut":-5,
148                     "required":true
149                 },
150                 "name":"Round 4",
151                 "number":4
152             },
153             "isPlaySuspendedOvernight":false,
154             "roundStatuses":[
155                 {
156                     "number":1,
157                     "status":"Official"
158                 },
159                 {
160                     "number":2,
161                     "status":"Official"
162                 },
163                 {
164                     "number":3,
165                     "status":"Official"
166                 },
167                 {
168                     "number":4,
169                     "status":"InProgress"
170                 }
171             ],
172             "seqNum":7247,
```

```
173     "standings":[
174         {
175             "currentRound":4,
176             "holesThrough":{
177                 "displayValue":"0",
178                 "value":0
179             },
180             "players":[
181                 {
182                     "country":"USA",
183                     "displayName":"Scottie Scheffler",
184                     "firstName":"Scottie",
185                     "gender":"male",
186                     "id":5972,
187                     "isAmateur":false,
188                     "lastName":"Scheffler"
189                 }
190             ],
191             "position":{
192                 "displayValue":"1",
193                 "format":"absolute",
194                 "order":1,
195                 "value":1
196             },
197             "roundInfo":{
198                 "1":{
199                     "roundFinishIsTied":false,
200                     "roundFinishPosition":1,
201                     "score":{
202                         "displayValue":"61",
203                         "value":61
204                     },
205                     "startHole":1,
206                     "teeTime":"2025-05-01T17:33:00Z",
207                     "toPar":{
208                         "displayValue":"-10",
209                         "value":-10
210                     }
211                 },
212                 "2":{
213                     "roundFinishIsTied":false,
214                     "roundFinishPosition":1,
215                     "score":{
216                         "displayValue":"63",
217                         "value":63
218                     },
219                     "startHole":10,
220                     "teeTime":"2025-05-02T12:23:00Z",
221                     "toPar":{
222                         "displayValue":"-8",
223                         "value":-8
224                     }
225                 },
226                 "3":{
227                     "roundFinishIsTied":false,
228                     "roundFinishPosition":1,
229                     "score":{
230                         "displayValue":"66",
```

```

231         "value":66
232     },
233     "startHole":1,
234     "teeTime":"2025-05-03T20:15:00Z",
235     "toPar":{
236         "displayValue":"-5",
237         "value":-5
238     }
239 },
240 "4":{
241     "score":{
242         "displayValue":"0",
243         "value":0
244     },
245     "startHole":1,
246     "teeTime":"2025-05-04T17:55:00Z",
247     "toPar":{
248         "displayValue":"0",
249         "value":0
250     }
251 }
252 },
253 "status":"Uncut",
254 "teamNo":101,
255 "toPar":{
256     "displayValue":"-23",
257     "value":-23
258 },
259 "toParToday":{
260     "displayValue":"0",
261     "value":0
262 },
263 "totalScore":{
264     "displayValue":"190",
265     "value":190
266 }
267 },
268 {
269     "currentRound":4,
270     "holesThrough":{
271         "displayValue":"0",
272         "value":0
273     },
274     "players":[
275         {
276             "country":"ENG",
277             "displayName":"Matt Wallace",
278             "firstName":"Matt",
279             "gender":"male",
280             "id":3,
281             "isAmateur":false,
282             "lastName":"Wallace"
283         }
284     ],
285     "position":{
286         "displayValue":"155",
287         "format":"absolute",
288         "order":156,

```

```
289         "value":155
290     },
291     "roundInfo":{
292         "1":{
293             "roundFinishIsTied":true,
294             "roundFinishPosition":129,
295             "score":{
296                 "displayValue":"72",
297                 "value":72
298             },
299             "startHole":10,
300             "teeTime":"2025-05-01T17:33:00Z",
301             "toPar":{
302                 "displayValue":"1",
303                 "value":1
304             }
305         },
306         "2":{
307             "roundFinishIsTied":false,
308             "roundFinishPosition":155,
309             "score":{
310                 "displayValue":"33",
311                 "value":33
312             },
313             "startHole":1,
314             "teeTime":"2025-05-02T12:23:00Z",
315             "toPar":{
316                 "displayValue":"2",
317                 "value":2
318             }
319         }
320     },
321     "status":"Withdrawn",
322     "teamNo":143,
323     "toParToday":{
324         "displayValue":"2",
325         "value":2
326     },
327     "totalScore":{
328         "displayValue":"105",
329         "value":105
330     }
331 },
332 {
333     "players":[
334         {
335             "country":"USA",
336             "displayName":"Gary Woodland",
337             "firstName":"Gary",
338             "gender":"male",
339             "id":4249,
340             "isAmateur":false,
341             "lastName":"Woodland"
342         }
343     ],
344     "position":{
345         "displayValue":"999",
346         "format":"absolute",
```

```

347         "order":999,
348         "value":999
349     },
350     "roundInfo":{
351
352     },
353     "status":"Removed",
354     "teamNo":30
355 },
356 {
357     "players":[
358         {
359             "country":"USA",
360             "displayName":"Will Zalatoris",
361             "firstName":"Will",
362             "gender":"male",
363             "id":7451,
364             "isAmateur":false,
365             "lastName":"Zalatoris"
366         }
367     ],
368     "position":{
369         "displayValue":"999",
370         "format":"absolute",
371         "order":999,
372         "value":999
373     },
374     "roundInfo":{
375
376     },
377     "status":"Removed",
378     "teamNo":97
379     }
380 ],
381 "timestamp":"2025-05-04T12:33:44.370Z",
382 "tournamentId":1109,
383 "tournamentStatus":"InProgress"
384 }
385 },
386 "type":"score_update",
387 "publish_time":"2025-05-04 12:33:49.710392"
388 }
389

```

Market (Definition) Message

- msg id will now match previous Mustard format but the integer part will be an IMGA Id
- arena_id will also be added and represent the new Id system (customers can use either id or arena_id as they wish)
- event_id will now match previous Mustard format but the integer part will be an IMGA Id
- arena_event_id will also be added and represent the new Id system (customers can use either event_id or arena_event_id as they wish)
- tags includes market name and IMGA tournament id value

```
1 MUSTARD
2
3 {
4   "mode": "push",
5   "type": "market",
6   "msg": {
7     "id": "golf_1345_win",
8     "name": "Winner",
9     "event_id": "ev.golf_1345",
10    "tags": ["sp.golf", "comp.golf_europga", "ev.golf_1345", "mt.outright"],
11    "start_time": "2018-10-04 07:00:00.000000",
12    "stage": "in_play",
13    "numwinners": 1,
14    "meta": null,
15  },
16  "publish_time": "2014-01-01 22:22:22.123456",
17 }
18
19
20 IMG/DL
21
22 {
23   "mode": "push",
24   "msg": {
25     "id": "golf_1119_hit_gir|golfer_ids=7152|hole_num=11|round_num=2",
26     "arena_id": "tid:1119|mt:PLAYER_TO_HIT_A_GIR|r:2|hs:11|gps:6088,7098,7152|pids:7152",
27     "name": "Player To Hit a GIR (Round 2, Hole 11) - Greyson Sigg",
28     "event_id": "ev.golf_1119",
29     "arena_event_id": 1119,
30     "tags": [
31       "sp.golf",
32       "mt.hit_gir",
33       "ev.golf_1119"
34     ],
35     "start_time": "2025-07-07 20:06:23.713662",
36     "stage": "ended",
37     "numwinners": 1,
38     "meta": {
39       "event_id": "1119",
40       "round_num": 2,
41       "hole_num": 11,
42       "holes": [
43         11
44       ],
45       "group_players": [
46         6088,
47         7098,
48         7152
49       ],
50       "group_id": "47",
51       "golfer_ids": [
52         7152
53       ],
54       "golfer_id": 7152
55     }
56   },
57   "type": "market",
58   "publish_time": "2025-07-07 20:06:23.713662"
```

```
59 }
60
```

Market Status Update

Settlement/Re-resulting

- msg id will now match previous Mustard format but the integer part will be an IMGGA Id
- arena_id will also be added and represent the new Id system (customers can use either id or arena_id as they wish)
- round_num and group_id will be added for markets where these are relevant on IMGGA/DL side
- name has been added in the selection_updates for the relevant player.
- meta information can include; event_id, top_n, roundNumber, region_name, group_players, group_id, holes, golfer_ids, golfer_id, under_over. These are only produced if relevant and can be null values.
- Adding in stage value which will be one of "pre_play", "in_play", or "ended". This was added on 21st Aug 2025

```
1  MUSTARD
2
3  {
4    "mode": "push",
5    "publish_time": "2023-06-11 11:44:07.345893",
6    "type": "market_update",
7    "msg": [{
8      "id": "golf_17972_twoball_tie|golfer_ids=2961,25646|round_num=4",
9      "status": "suspended",
10     "ew_terms": null,
11     "meta": {
12       "event_id": "679",
13       "round_num": 4,
14       "group_id": 14
15     },
16     "selection_updates": [{
17       "display": false,
18       "id": "g:25646",
19       "settlement": {
20         "stake_returned": 0,
21         "payout_returned": 0
22       },
23       "status": "settled"
24     }, {
25       "id": "tie",
26       "settlement": {
27         "stake_returned": 0,
28         "payout_returned": 1
29       },
30       "status": "settled"
31     }, {
```

```

32     "id": "g:2961",
33     "settlement": {
34         "stake_returned": 0,
35         "payout_returned": 0
36     },
37     "status": "settled"
38 }],
39 "display": false,
40 "related_place_markets": null
41 }]
42 }
43
44
45
46 IMG/DL
47
48 {
49     "mode": "push",
50     "msg": [
51         {
52             "id": "golf_1158_top_n|nplaces=7",
53             "arena_id": "tid:1158|mt:TOP_7|topn:7",
54             "status": "active",
55             "stage": "in_play",
56             "display": true,
57             "meta": {
58                 "event_id": "1158",
59                 "top_n": 7
60             },
61             "selection_updates": [
62                 {
63                     "id": "t:PLAYER|pid:7334",
64                     "name": "Andrew Wilson",
65                     "price": "5000/1",
66                     "status": "settled",
67                     "display": true,
68                     "meta": {
69                         "golfer_id": 7334
70                     }
71                 }
72             ]
73         }
74     ],
75     "type": "market_update",
76     "publish_time": "2025-07-07 11:03:11.062631"
77 }

```

Results API

- IMG/ Results API is structured differently to Mustard so this would be a new integration required which is detailed within this page [IMG Results API | IMG ARENA](#)

