RELEASE NOTES

Vessel Insights API 3.3

Contents

1.   Release scope & announcements

ABB Vessel Insights API (VIA) provides quality checked datasets & vessel performance analysis results for any vessel performance monitoring, voyage management, commercial intelligence or supply chain analytics dashboard. VIA is an all-in-one data solution that collects, collates, and delivers every relevant piece of operational data at the fleet or vessel level. It seamlessly integrates into your existing business processes and acts as a single source of truth for all vessel performance related use cases.

Vessel Insights 3.3 contains several new features, enhancements and bug fixes.

Note: *The updated technical documentation of Vessel Insights API is available here:*
https://docs.vesselinsights.api.shipping.dtn.com/index.html

2.   New features

1.   *Customers can now subscribe vessels to VIA by only using IMO numbers (MMSI not needed)*
With this deployment, we start retrieving MMSI values automatically for any IMO number that is subscribed by the customer to VIA. So customer does not need to provide MMSI value anymore when subscribing a vessel to VIA. This will make the subscription endpoint more user friendly and the responsibility to track the latest MMSI value for any subscribed IMO will be managed automatically in the backend by ABB.

To keep backward compatibility, we are adding a new version (V2) for VIA subscription endpoints.

- Changes on existing subscription endpoint (V1) - https://api.shipping.dtn.com/vesselsubscriptions/v1/index.html:
    - ✓ There are no changes for the request and response structure, but we will always return the MMSI values as "0" for "Add bulk vessel subscriptions" and "Get the list of vessel subscriptions"
    - ✓ In the "Add bulk vessel subscriptions" endpoint, MMSI value is optional in the body. Even you provide a MMSI value for this request, we will ignore the value and retrieve it (and keep it updated) automatically.

- New subscription endpoint (V2) - https://api.shipping.dtn.com/vesselsubscriptions/v2/index.html:
    - ✓ Updated versions of the documentation will be available with this link after the deployment is completed
    - ✓ With the V2 endpoint, MMSI will not be a part of the subscription process, so there is no MMSI field in the "Get the list of vessel subscriptions" response, and "Add bulk vessel subscriptions" request and response (see images below).
    - ✓ **We expect customers to migrate to V2 subscription endpoint by 1ˢᵗ March 2025 after which V1 endpoint will be deprecated.**

Nine Collection / Customer Vessel Subscription / **Add bulk vessel subscription**

POST https://api.shipping.dtn.com/v2/subscriptions

Params   Authorization •   Headers (9)   Body •   Scripts   Settings

none   form-data   x-www-form-urlencoded   **raw**   binary   GraphQL   JSON

```json
1  [
2      {
3          "imo": "9202508"
4      },
5      {
6          "imo": "9246633"
7      },
8      {
9          "imo": "9283605"
10      }
11  ]
```

Body   Cookies   Headers (9)   Test Results   **201 Created**   25.03 s   650 B

Pretty   Raw   Preview   Visualize   JSON

```json
1  {
2      "succeeded": [
3          {
4              "imo": "9202508",
5              "dateSubscribed": "2024-11-26T06:27:11.5941498Z"
6          },
7          {
8              "imo": "9246633",
9              "dateSubscribed": "2024-11-26T06:27:11.7934748Z"
10          },
11          {
12              "imo": "9283605",
13              "dateSubscribed": "2024-11-26T06:27:11.8901235Z"
14          }
15      ],
16      "failed": []
```

Nine Collection / Customer Vessel Subscription / **GET list of vessel subscriptions**

GET https://api.shipping.dtn.com/v2/subscriptions

Params   Authorization •   Headers (7)   Body   Scripts   Settings

none   form-data   x-www-form-urlencoded   **raw**   binary   GraphQL   JSON

Body   Cookies   Headers (8)   Test Results   **200 OK**   378 ms   919 B

Pretty   Raw   Preview   Visualize   JSON

```json
1  [
2      {
3          "imo": "9246633",
4          "dateSubscribed": "2024-11-26T06:27:11.80262"
5      },
6      {
7          "imo": "9666077",
8          "dateSubscribed": "2022-12-07T15:02:19.322665"
9      },
10      {
11          "imo": "9575577",
12          "dateSubscribed": "2022-12-07T15:15:37.631054"
13      },
14      {
15          "imo": "9585900",
16          "dateSubscribed": "2022-12-07T15:56:21.473044"
17      }
```

2. The 'listEvents' query in VIA is replaced by new 'getAllEvents'' query

With this release, the 'listEvents' query in VIA is replaced by new '**getAllEvents''** query. This new query behaves in the same way as listEvents query but has following advantages:

- You can get upto 4000 events in 1 request (this was limited to 1000 events in listEvents query). This means that by using the new 'getAllEvents' query, you can get data for most voyages in 1 api call (for roughly 40 day voyages). An example is shown below.

- There is a new filter "updateSince" that can be used to get AIS and Noon events that have been update or inserted since this date in VIA. This can be useful if you want to see if a noon report has been inserted with a delay in VIA or if a noon report was updated in VIA after the voyage was completed.
- The 'eventType' filter works better with 'getAllEvents' query when compared to listEvents query
- The pagination works in the same way as in the listEvents query
- To start using it, all you need to do is change the name of the query to "getAllEvents"
- The listEvents query in VIA is now obsolete

An example query is shown below:

```
getAllEvents(query: {
    imo: 9685475
    from: "2023-04-10T00:00:00.000Z"
    to: "2023-05-10T00:00:00.000Z"
})
```

Also - limit, sort, updateSince and eventType are optional filters that can be used in the query as follows:

- limit: 3000
- sort: asc
- updateSince: "2023-01-19T00:12:44Z"
- eventType: "TrackPoint"

The 'nextToken' can be used to call VIA iteratively to get all the results for any custom date range.
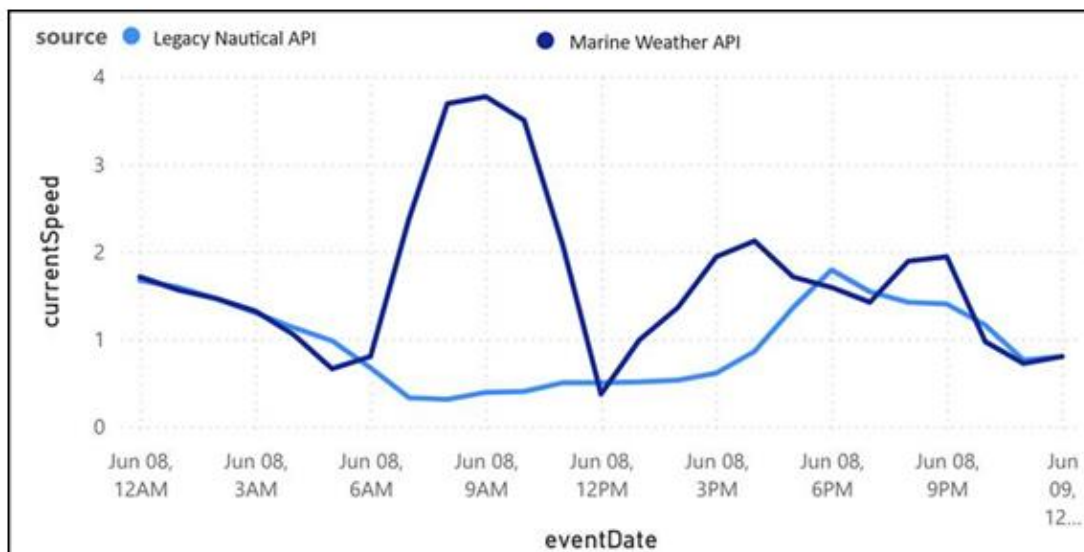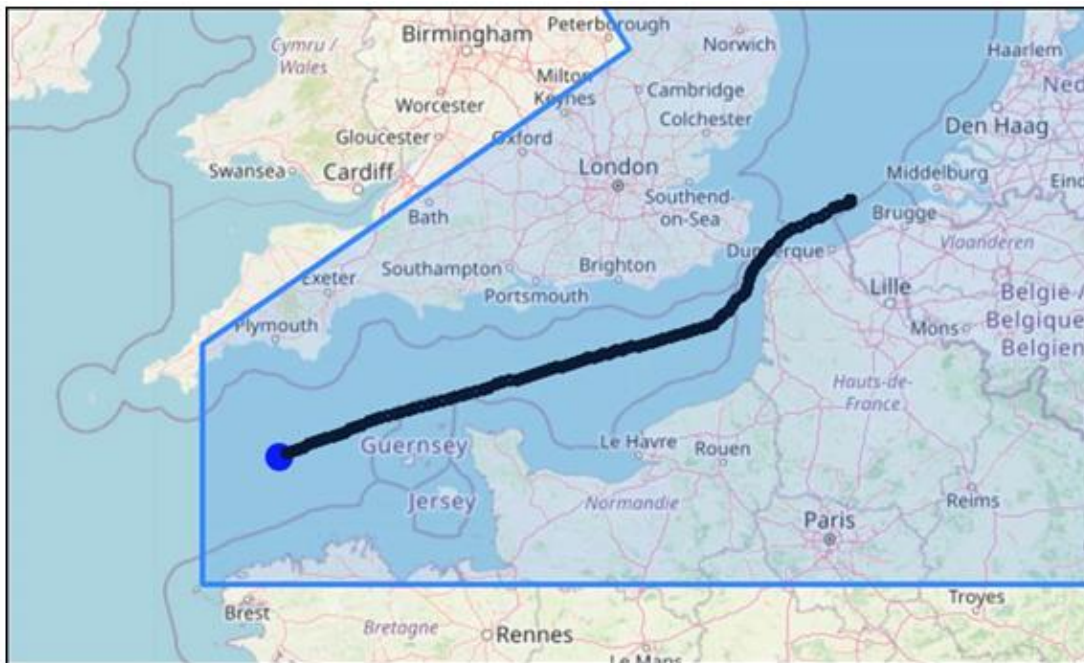
3. Enhancements

1. *The following enhancements were made in VIA with this release*
    - Migrate VIA from nautical api to new marine weather api (MWA) of DTN
        - ✓ An example below shows a comparison between nautical api results and marine weather api results which shows the extra value of migrating VIA to Marine Weather api. In the example below, the vessel is crossing English channel and the graphs show the difference in current speed as per nautical api vs Marine weather api. The nautical api completely missed the strong 4 knots current in the channel, probably due to low grid resolution and because of lack of tidal current data. This limitation is gone when new Marine Weather api is used to get weather data in VIA due to its high grid resolution and presence of tidal current data. This shows the high value that new Marine Weather api brings to VIA customers.

imo: 9421324
from: "2024-06-08T00:00:00.000Z"
to: "2024-06-10T00:00:00.000Z"

- Rebranding VIA documentation towards ABB

4. Bug fixes

1. *The following bugs were fixed with this release of VIA*
   - The bug where the Noon Summary Query has results even though customer doesn't not provide Noon Report
   - The bug where when a noon report was inserted before a noon event that has no previous and next event, few variables in calculatedBunkerData block were not calculated.
   - Various VIA documentation issues:
     - ✓ Some missing variables added to VIA documentation (previousEventData, eventDate, insertDate, updatedDate)
     - ✓ Update the authentication audience (We have now unified the audience of Vessel Insights API, Vessel Insights Subscription API and Insert Noon API to: https://vesselinsights.api.shipping.dtn.com/vesselinsightsresource)
     - ✓ Update some descriptions in VIA documentation (missingNoonReports, isVesselInECA, distanceInECA and timeInECA)
   - The bug with track summary and track CII queries, which might result in a problem with missing AIS track results if the query date fields have a millisecond portion. There was a bug about calculation of the missing ais track which related with the date's millisecond part.