

Release 1.3 - TFOC Algorithms Comparison

StakeHolders: [Piyush Raj](#) [Govi Rajagopal](#) [Renjith B G](#) [Kalesh Krishnan](#)

Environments : PROD, UAT/STAGING

Algorithms: ECL Algorithm, Python based Algorithm

Testing Type: A/B Testing

Pre-requisites: [Renjith B G](#)

#1 Export data from PROD instance

#2 Import the exported voyage and 3 Hourly Report from PROD[10 IMO's] to UAT/Staging.

[Note: is it possible to document these steps ?]

Testing Criteria's:

#1 UI Look and Feel: Once the voyage is created on UAT/Staging instance, we need to make sure the voyage metrics are properly plotted with graphs.

#2 Fixed data as per voyage info: As per voyage, fixed data/static data should be compared with PROD instance data. [Piyush Raj](#) [please recommend on the metrics needs to be validated]

#3 Algorithmic based data/Formula based data: check for the ranges and discuss with PdM team for data accuracy.

#4 Time taken to complete the hourly report. Compare between PROD and UAT/Staging instances. [Note: This can be found from AWS & ECL logs]

[Ask: is it possible to update this time taken info on SS side?]

Applicable Instance: Staging

Assumptions:

#1 with TFOC Staging instance, Connection will be disconnected between “searoute” and “Netpas” Layers.

#2 By default TFOC Staging Instance is using the “demoregistry”

#3 AWS s3 bucket has config for vessels used for Python based Algorithm

#4 PROD instance is currently using only “ECL Algorithm”

Flow:

#1 Make sure vessel IMO number is under S3 Config

#2 If IMO number is available under “Demo Registry” by default Python based Algorithm will be used to process Voyage & 3 Hourly Report

IMO Numbers:

1. BW Austria: IMO 9370537 (Current Coyage as below)



2. BW Rye: IMO 9770634

3. Berge Nyangani, IMO 9558294

4. BW Barley, IMO 9552824

5. BW Cougar, IMO 9675494

6. BW Malacca, IMO 9735038

SMARTShip VOYAGE PLAN
2019-08-08 10:00:00 (UTC+09:00)

Voyage Information

Item	Value	Item	Value
Vessel Name	Hourai Maru	Destination Port	Yokohama
Start Port Latitude	35.689444	Destination Port Latitude	35.689444
Start Port Longitude	139.691722	Destination Port Longitude	139.691722
Actual Time of Departure (UTC)	2019-08-08 10:00:00 (UTC)	Destination Port ID	YOKO
Estimated Time of Arrival (ETA)	2019-08-08 10:00:00 (UTC)	Port Security (0: Safe)	0: Safe
Load to Time Estimated Time of Arrival (ETA)	2019-08-08 10:00:00 (UTC)	Load Capacity Value (0: Not in loading)	Not available

Waypoints Information

Index	Latitude	Longitude	Port Name
1	35.689444	139.691722	-
2	35.689444	139.691722	-
3	35.689444	139.691722	-
4	35.689444	139.691722	-
5	35.689444	139.691722	-
6	35.689444	139.691722	-
7	35.689444	139.691722	-
8	35.689444	139.691722	-
9	35.689444	139.691722	-
10	35.689444	139.691722	-
11	35.689444	139.691722	-
12	35.689444	139.691722	-

Chapter Policy Consumption (0: Not in use) Chapter Policy Consumption (0: Not in use)

IMO 123456 123456

7. Hourai Maru, IMO 9796585 (Below voyage failed to generate a plan)

8. Orange Victoria, IMO 9803364 (Completed Voyage as below)

9. Hakata Princess, IMO 9788564 (Completed Voyage as below)

10. Trammo Dietlin, IMO 9543079 (Current Voyage)

SMARTShip VOYAGE PLAN
2019-08-08 10:00:00 (UTC+09:00)

Voyage Information

Item	Value	Item	Value
Vessel Name	Hourai Maru	Destination Port	Yokohama
Start Port Latitude	35.689444	Destination Port Latitude	35.689444
Start Port Longitude	139.691722	Destination Port Longitude	139.691722
Actual Time of Departure (UTC)	2019-08-08 10:00:00 (UTC)	Destination Port ID	YOKO
Estimated Time of Arrival (ETA)	2019-08-08 10:00:00 (UTC)	Port Security (0: Safe)	0: Safe
Load to Time Estimated Time of Arrival (ETA)	2019-08-08 10:00:00 (UTC)	Load Capacity Value (0: Not in loading)	Not available

Waypoints Information

Index	Latitude	Longitude	Port Name
1	35.689444	139.691722	-
2	35.689444	139.691722	-
3	35.689444	139.691722	-
4	35.689444	139.691722	-
5	35.689444	139.691722	-
6	35.689444	139.691722	-
7	35.689444	139.691722	-
8	35.689444	139.691722	-
9	35.689444	139.691722	-
10	35.689444	139.691722	-
11	35.689444	139.691722	-
12	35.689444	139.691722	-

Chapter Policy Consumption (0: Not in use) Chapter Policy Consumption (0: Not in use)

IMO 123456 123456

SMARTShip VOYAGE PLAN
2019-08-08 10:00:00 (UTC+09:00)

Voyage Information

Item	Value	Item	Value
Vessel Name	Hourai Maru	Destination Port	Yokohama
Start Port Latitude	35.689444	Destination Port Latitude	35.689444
Start Port Longitude	139.691722	Destination Port Longitude	139.691722
Actual Time of Departure (UTC)	2019-08-08 10:00:00 (UTC)	Destination Port ID	YOKO
Estimated Time of Arrival (ETA)	2019-08-08 10:00:00 (UTC)	Port Security (0: Safe)	0: Safe
Load to Time Estimated Time of Arrival (ETA)	2019-08-08 10:00:00 (UTC)	Load Capacity Value (0: Not in loading)	Not available

Waypoints Information

Index	Latitude	Longitude	Port Name
1	35.689444	139.691722	-
2	35.689444	139.691722	-
3	35.689444	139.691722	-
4	35.689444	139.691722	-
5	35.689444	139.691722	-
6	35.689444	139.691722	-
7	35.689444	139.691722	-
8	35.689444	139.691722	-
9	35.689444	139.691722	-
10	35.689444	139.691722	-
11	35.689444	139.691722	-
12	35.689444	139.691722	-

Chapter Policy Consumption (0: Not in use) Chapter Policy Consumption (0: Not in use)

IMO 123456 123456

SMARTShip VOYAGE PLAN
2019-08-08 10:00:00 (UTC+09:00)

Voyage Information

Item	Value	Item	Value
Vessel Name	Hourai Maru	Destination Port	Yokohama
Start Port Latitude	35.689444	Destination Port Latitude	35.689444
Start Port Longitude	139.691722	Destination Port Longitude	139.691722
Actual Time of Departure (UTC)	2019-08-08 10:00:00 (UTC)	Destination Port ID	YOKO
Estimated Time of Arrival (ETA)	2019-08-08 10:00:00 (UTC)	Port Security (0: Safe)	0: Safe
Load to Time Estimated Time of Arrival (ETA)	2019-08-08 10:00:00 (UTC)	Load Capacity Value (0: Not in loading)	Not available

Waypoints Information

Index	Latitude	Longitude	Port Name
1	35.689444	139.691722	-
2	35.689444	139.691722	-
3	35.689444	139.691722	-
4	35.689444	139.691722	-
5	35.689444	139.691722	-
6	35.689444	139.691722	-
7	35.689444	139.691722	-
8	35.689444	139.691722	-
9	35.689444	139.691722	-
10	35.689444	139.691722	-
11	35.689444	139.691722	-
12	35.689444	139.691722	-

Chapter Policy Consumption (0: Not in use) Chapter Policy Consumption (0: Not in use)

IMO 123456 123456

SMARTShip VOYAGE PLAN
2019-08-08 10:00:00 (UTC+09:00)

Voyage Information

Item	Value	Item	Value
Vessel Name	Hourai Maru	Destination Port	Yokohama
Start Port Latitude	35.689444	Destination Port Latitude	35.689444
Start Port Longitude	139.691722	Destination Port Longitude	139.691722
Actual Time of Departure (UTC)	2019-08-08 10:00:00 (UTC)	Destination Port ID	YOKO
Estimated Time of Arrival (ETA)	2019-08-08 10:00:00 (UTC)	Port Security (0: Safe)	0: Safe
Load to Time Estimated Time of Arrival (ETA)	2019-08-08 10:00:00 (UTC)	Load Capacity Value (0: Not in loading)	Not available

Waypoints Information

Index	Latitude	Longitude	Port Name
1	35.689444	139.691722	-
2	35.689444	139.691722	-
3	35.689444	139.691722	-
4	35.689444	139.691722	-
5	35.689444	139.691722	-
6	35.689444	139.691722	-
7	35.689444	139.691722	-
8	35.689444	139.691722	-
9	35.689444	139.691722	-
10	35.689444	139.691722	-
11	35.689444	139.691722	-
12	35.689444	139.691722	-

Chapter Policy Consumption (0: Not in use) Chapter Policy Consumption (0: Not in use)

IMO 123456 123456

VERAGE PLAN			
VERAGE INFORMATION			
Start Point	Latitude	Longitude	Point Name
Start Point Latitude	23° 12' 17" N	Start Point Longitude	124° 16' 17" E
Start Point Longitude	124° 16' 17" E	Destination Point Latitude	23° 16' 17" N
Actual Time of Departure (DTP)	2019-09-20 00:00:00 (UTC)	Destination Point Longitude	124° 16' 17" E
Estimated Time of Arrival (ETA)	2019-09-20 00:00:00 (UTC)	Destination Point Name	VERAGE
Actual to Time Estimated Time of Arrival (AET)	2019-09-20 00:00:00 (UTC)	Point Name	VERAGE
Actual to Time Estimated Time of Arrival (AET)	2019-09-20 00:00:00 (UTC)	Current Latitude Value (N/E/W/S)	23° 16' 17" N
VERAGE INFORMATION			
Index	Latitude	Longitude	Point Name
1	23° 12' 17" N	124° 16' 17" E	VERAGE
2	23° 12' 17" N	124° 16' 17" E	VERAGE
3	23° 12' 17" N	124° 16' 17" E	VERAGE
4	23° 12' 17" N	124° 16' 17" E	VERAGE
5	23° 12' 17" N	124° 16' 17" E	VERAGE
6	23° 12' 17" N	124° 16' 17" E	VERAGE
7	23° 12' 17" N	124° 16' 17" E	VERAGE
8	23° 12' 17" N	124° 16' 17" E	VERAGE
9	23° 12' 17" N	124° 16' 17" E	VERAGE
10	23° 12' 17" N	124° 16' 17" E	VERAGE
11	23° 12' 17" N	124° 16' 17" E	VERAGE
VERAGE INFORMATION (DTP + AET)			
VERAGE INFORMATION (DTP + AET)			
VERAGE INFORMATION (DTP + AET)			

VERAGE PLAN			
VERAGE INFORMATION			
Start Point	Latitude	Longitude	Point Name
Start Point Latitude	23° 12' 17" N	Start Point Longitude	124° 16' 17" E
Start Point Longitude	124° 16' 17" E	Destination Point Latitude	23° 16' 17" N
Actual Time of Departure (DTP)	2019-09-20 00:00:00 (UTC)	Destination Point Longitude	124° 16' 17" E
Estimated Time of Arrival (ETA)	2019-09-20 00:00:00 (UTC)	Destination Point Name	VERAGE
Actual to Time Estimated Time of Arrival (AET)	2019-09-20 00:00:00 (UTC)	Point Name	VERAGE
Actual to Time Estimated Time of Arrival (AET)	2019-09-20 00:00:00 (UTC)	Current Latitude Value (N/E/W/S)	23° 16' 17" N
VERAGE INFORMATION			
Index	Latitude	Longitude	Point Name
1	23° 12' 17" N	124° 16' 17" E	VERAGE
2	23° 12' 17" N	124° 16' 17" E	VERAGE
3	23° 12' 17" N	124° 16' 17" E	VERAGE
4	23° 12' 17" N	124° 16' 17" E	VERAGE
5	23° 12' 17" N	124° 16' 17" E	VERAGE
6	23° 12' 17" N	124° 16' 17" E	VERAGE
7	23° 12' 17" N	124° 16' 17" E	VERAGE
8	23° 12' 17" N	124° 16' 17" E	VERAGE
9	23° 12' 17" N	124° 16' 17" E	VERAGE
10	23° 12' 17" N	124° 16' 17" E	VERAGE
11	23° 12' 17" N	124° 16' 17" E	VERAGE
VERAGE INFORMATION (DTP + AET)			
VERAGE INFORMATION (DTP + AET)			
VERAGE INFORMATION (DTP + AET)			