Integrated Reporting: Definition and Benefits
Reporting Today – Step 1

VMS Trip Declaration
Subtrip vessel logging using IDs different from VMS. Vessel ID and dates manually entered.
Observer manually enters data including trip ID, vessel ID, and dates.
Reporting Today – Step 4

Vessel manually enters proposed dealer ID and landing date into log.
Dealer manually enters vessel ID, trip ID, and landing date into dealer report.
Four separate reports are generated for one event.

VMS → VMS Data

Vessel → Vessel Log

Dealer → Dealer Report

Observer → Observer Report
### Reporting Today – Step 7

**Report Matching**

Note different trip ID numbering systems.

Vessel log entries are subtrips.

Match by trip ID, vessel ID, dealer ID, or date?

<table>
<thead>
<tr>
<th>VMS Data</th>
<th>Vessel Logs</th>
<th>Observer Reports</th>
<th>Dealer Reports</th>
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<tbody>
<tr>
<td>VD1</td>
<td>VL1</td>
<td>OR1</td>
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Reporting Today – Step 8

Extensive QC
Integrated Reporting – Step 1

VMS Trip Declaration

Activity Code
Trip ID transmitted from VMS to electronic vessel log. Date and vessel ID auto-generated by vessel log.
Integrated Reporting – Step 3

Subtrips logged under a single trip ID
Integrated Reporting – Step 4

Observer electronic reporting system acquires trip data.

Trip ID
Vessel ID
Dates

Electronic vessel logbook
Vessel arrives at dealer A but declares intent to sell to dealer B

Integrated Reporting Web App

Intent to sell
Trip ID
Vessel ID
Landing Date

Dealer B
Dealer A
Integrated Reporting – Step 6
Error case

Upon attempt to sell, dealer informs vessel operator that no intent notice was received.
Integrated Reporting – Step 6
Correction option 1

Vessel corrects intent message. Indicates dealer A.

Integrated Reporting Web App

Intent cancelled

Dealer B

Dealer A
Integrated Reporting – Step 6
Correction option 2

Vessel sells to dealer B.

Integrated Reporting Web App

Dealer B

Dealer A
Integrated Reporting – Step 7

Reports uploaded via wireless at dealer

Integrated Reporting Web App

Dealer data

Vessel log data

Observer data
Two Realizations of Integrated Reporting

1. All data is written to a single report via the web app

2. Logical equivalent: subsystems communicate the following information directly to each other
   1. Trip ID
   2. Vessel ID
   3. Dealer ID
   4. Trip dates
Summary

• The integrated reporting concept is derived by identifying the sources of errors in reporting systems and preventing each of these errors.
• Errors become nearly impossible to generate
• Important side benefits
  • Near real time
  • Major cost savings in QC
  • Saves effort for reporters due to data not entered
  • Matching step is trivial or can be eliminated altogether