Science, Service, Stewardship



# Integrated Reporting: Definition and Benefits

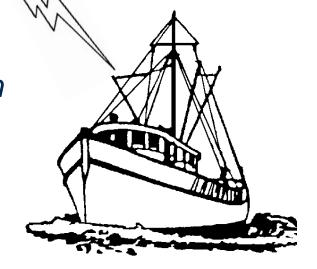
January 2, 2014

NOAA FISHERIES SERVICE



#### **Reporting Today – Step 1**

VMS Trip Declaration





**Reporting Today – Step 2** 

Ó**o** 

<u>Subtrip</u> vessel logging using <u>IDs different</u> <u>from VMS. Vessel</u> <u>ID and dates</u> <u>manually entered.</u>



#### **Reporting Today – Step 3**

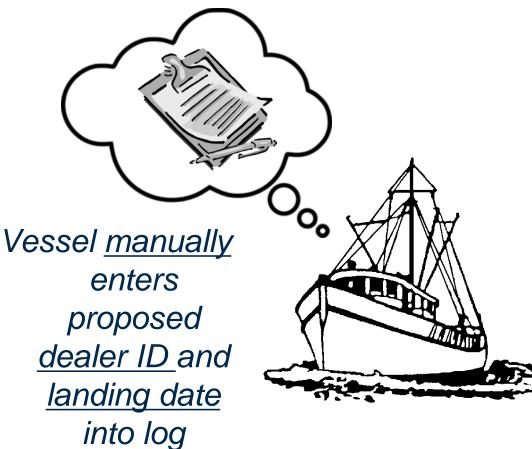
Observer <u>manually</u> enters data including <u>trip ID,</u> <u>vessel ID, and</u> <u>dates.</u>



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**Reporting Today – Step 4** 





# **Reporting Today – Step 5**

Dealer <u>manually</u> enters <u>vessel ID</u>, <u>trip ID, and</u> <u>landing date</u> into dealer report







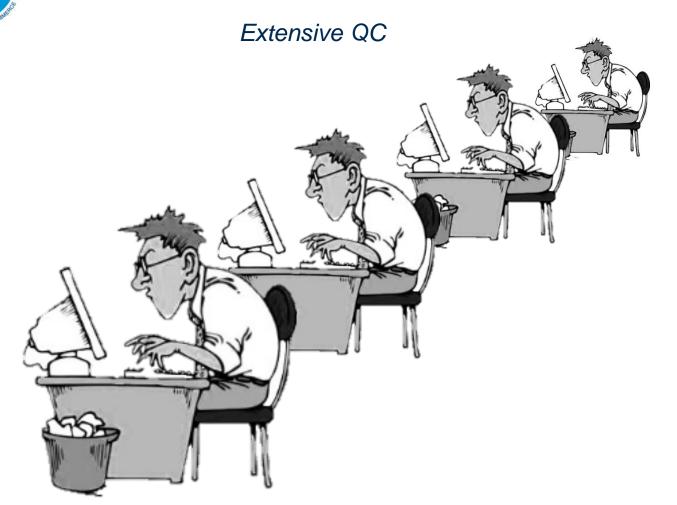
### **Reporting Today - Step 7**

Report Matching Note different trip ID numbering systems. Vessel log entries are subtrips. Match by trip ID, vessel ID, dealer ID, or date?

VMS Data	Vessel Logs		<b>Observer Reports</b>	Dealer Reports
VD1	VL1		OR1	DR1
VD2	VL2	~	OR2	DR2
VD3	VL3		OR3	DR3
VD4	VL4		OR4	DR4
VD5	VL5		OR5	DR5
VD6	VL6		OR6	DR6
VD7	VL7		OR7	DR7
	•		•	
	•		•	
			•	

**NOATMOSPA** 

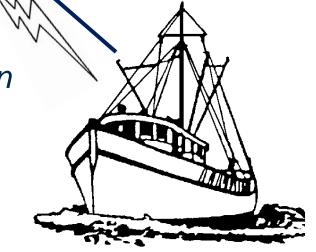
# **Reporting Today – Step 8**





#### **Integrated Reporting - Step 1**

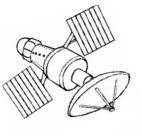
VMS Trip Declaration



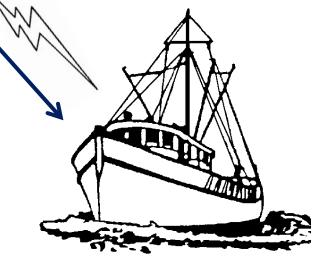
Activity Code

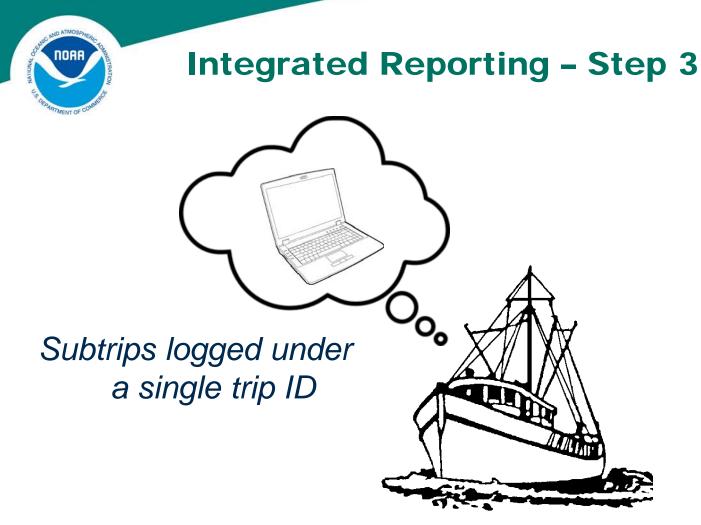


#### **Integrated Reporting – Step 2**



Trip ID transmitted from VMS to electronic vessel log. Date and vessel ID auto-generated by vessel log.







#### **Integrated Reporting - Step 4**

Observer electronic reporting system acquires trip data.



Electronic

vessel

logbook

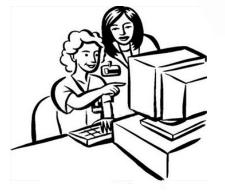


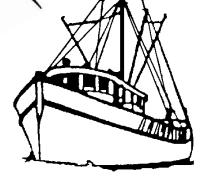
#### Integrated Reporting – Step 5 Error case

Integrated Reporting Web App

Intent to sell Trip ID Vessel ID Landing Date Vessel arrives at dealer A but declares intent to sell to dealer B







Dealer B

**Dealer** A

NOAA

## Integrated Reporting – Step 6 Error case

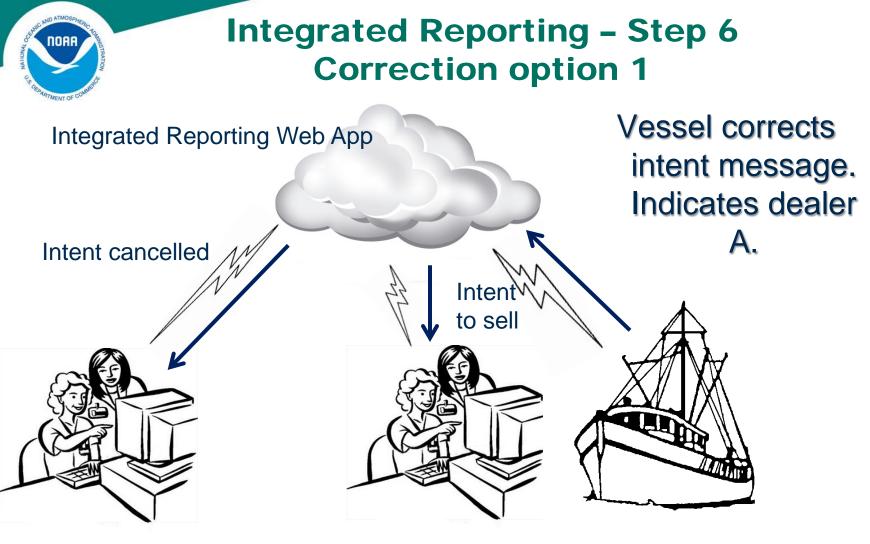
#### Integrated Reporting Web App

Upon attempt to sell, dealer informs vessel operator that no intent notice was received.

Dealer B



**Dealer** A



Dealer B

**Dealer** A

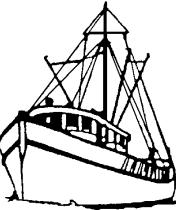


#### Integrated Reporting – Step 6 Correction option 2

Integrated Reporting Web App

# Vessel sells to dealer B.

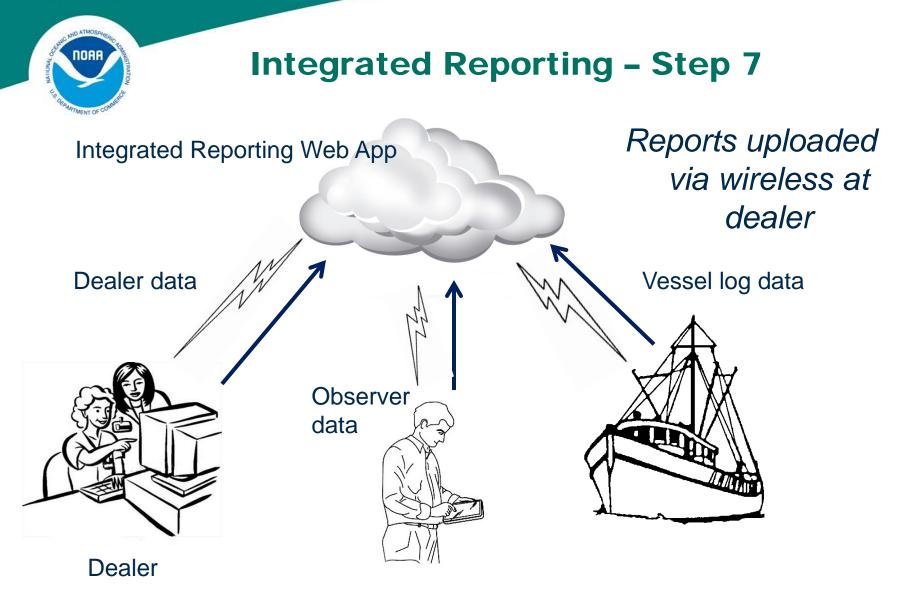






Dealer A

Dealer B





# 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



- 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