Fishery Dependent Data Visioning Project

Greater Atlantic Regional Fisheries Office
Northeast Fisheries Science Center

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May, 2017

Source: www.visualphotos.com
Background

Comprehensive Data Needs & Requirement Analysis:

- All stakeholders affected by NEFSC/GARFO data
- All sources of fishery dependent data

Internal & External Interviews:

- 180 individuals
- 17 NMFS offices and branches
- 13 states, 2 Councils & 2 Commissions
- 3 NGOs
- Harvesters, industry reps, and dealers
The Vision Recommendations

• Focus on data streams
• Build flexible systems that can adapt to changing needs, uses, and technology
• Implement vessel electronic data collection in all fisheries
• Reduce redundant data collection and processing
• Improve data quality and timeliness
• Improve access to data
Integration with ACCSP and States

- FDDV and ACCSP’s modernization efforts moving forward together
- Goal is a data structure that can support both Federal and State data
- Improvements to data systems will benefit all users:
  - More complete and comprehensive fisheries data
  - Timely availability of trip level data
  - Consistent and reliable data products
What have we accomplished?

- interviews and initial vision document
- requirements analysis
- developed high level system design
- designed business process models
- developed high level implementation plan
- designed data validation services
- clarified vision project (phased approach)
- enter into the development phase
What are we doing?

• First change is the adoption of the Trip ID
  • Integrate system components electronically

• Trip ID will be generated by the Trip Management System (TMS)
  • TMS is much more than a Trip ID generator
  • TMS is the brains of the system
  • TMS will exchange information with PTNS, VMS, NEFOP, VTR & Dealer databases as well as other system components as needed
What will this achieve?

• Trip ID will serve to integrate the various individual collection programs
• Integration will provide a more complete, accurate, timely and accessible data set
• Lessen burden to industry by simplifying reporting systems
• Reduce and eliminate data redundancy and inefficiencies
• Develop a modernized database structure
• Create a system that is adaptable and flexible
Example of how it works

• a vessel operator decides to fish:
  • access web-based TMS user interface
  • record the intent to fish (declaration)
    • will serve to fulfill existing PTNS requirements
    • will fulfill VMS declaration requirements
    • other pre-trip requirements
  • a unique Trip ID is generated and associated with all data submitted for that trip
Example of how it works - continued

- TMS data including the Trip ID is integrated into the eVTR
- Trip ID will be provided to dealers identified on that eVTR as having bought catch
- Trip ID will be pushed to other impacted data streams such as Observer, Bio-Sampling, VMS, etc.
Example Depiction

- TMS
- PTNS
- VMS
- eVTR
- DEALER
- OBS
# Current Reporting Systems

<table>
<thead>
<tr>
<th>Species</th>
<th>PTNS/OBS</th>
<th>VMS Trip Declaration</th>
<th>VMS Trip Start Hail</th>
<th>VMS In Trip Catch Report</th>
<th>Post Trip Catch Report</th>
<th>Trip End Hail / PreLand</th>
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# Future Reporting Systems

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Impediments to Implementation

- Protecting confidentiality while propagating the Trip ID to the various dealers reporting applications
- eVTR
  - require electronic reporting
  - reporting frequency
- Offload of multiple trips during single offload event
- Trucking and consignment houses
Where do we go from here?

• Assembled a project team to design and build TMS
• Assembled a project team to develop methods to propagate the Trip ID to all trip level activities
• Hired two developer/programmers
• Next up is the design of how TMS, PTNS, VMS, eVTR will be integrated
• Identify in what scenarios we can first implement the Trip ID
Conforming Changes

• TMS requires regulatory action
• Required eVTR
• eVTR Reporting frequency
Questions?

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