

Exceptional service in the national interest



USER INTERFACE STORYBOARDS

Performs Expert Technical Analysis Storyboards

April 2016

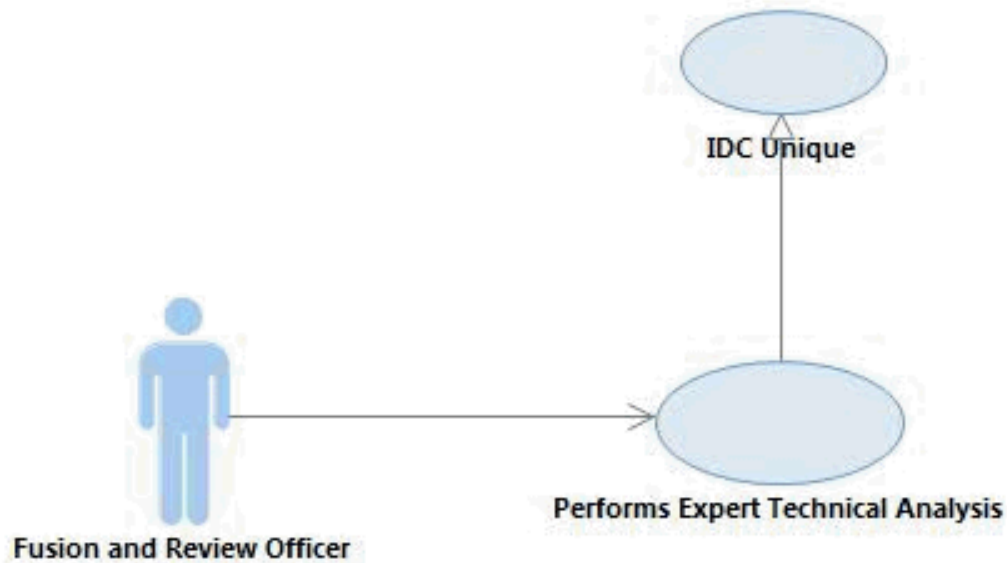
Brief Description

- This architecturally significant use case describes how the Fusion and Review Officer conducts an expert technical analysis upon request from a member state. The request could be for expert technical analysis for either a more detailed analysis of a specific event using IMS data and software (see 'Analyzes Event' UC) or for specified analysis using member state specified data and/or software (see 'Analyzes Research Event' UC).
- The Fusion and Review officer creates an Updated Event Bulletin when doing a more detailed analysis of the IMS data using System tools. The Fusion and Review Officer creates a State Requested Methods Report (SRMR) that is based on the results of the extensive analysis using the member state specified data and/or software. Both types of analysis may include but is not limited to geographic location, time, depth, magnitude, waveforms, the signal detection list, a map, phase and depth refinement, and focal mechanism. The Fusion and Review Officer makes the Updated Event bulletin, SRMR and member-state provided data and software available to all member states (see 'Views System Results' UC).

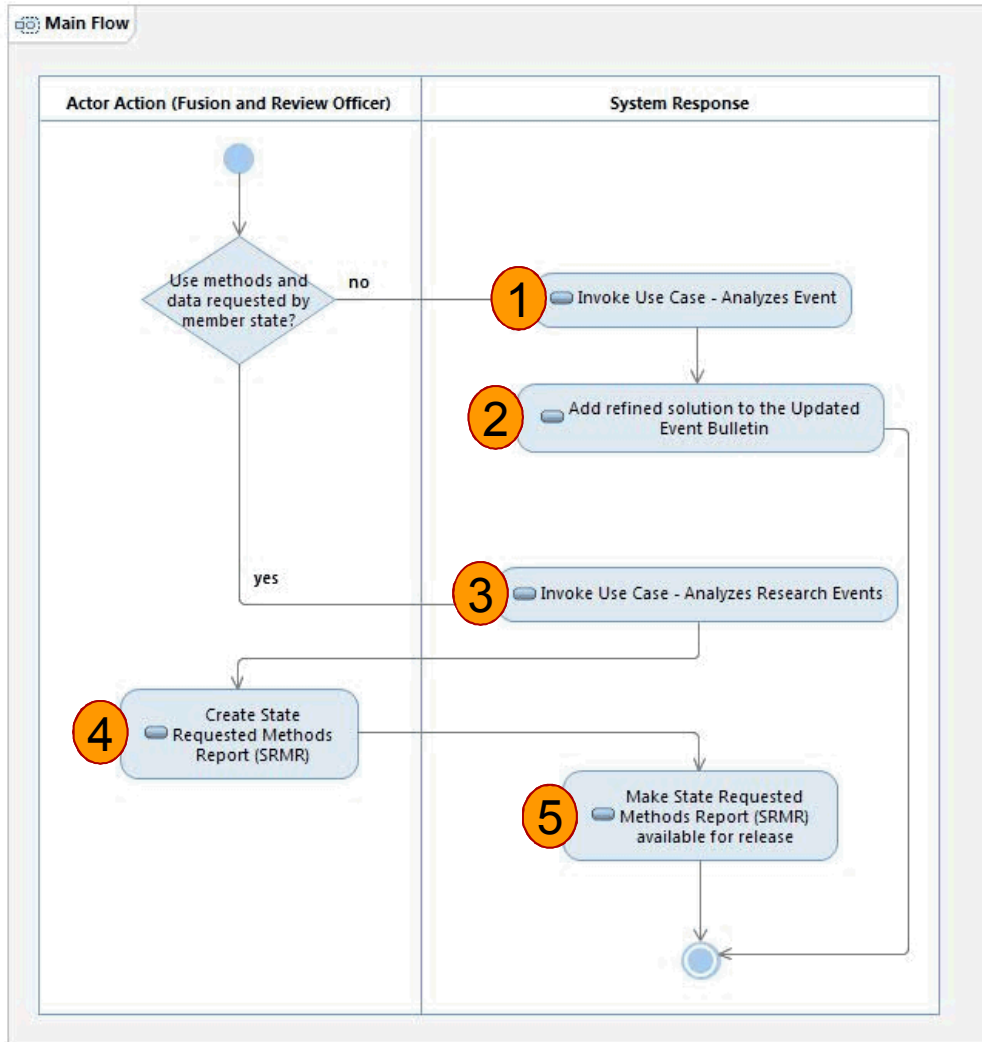
Key concepts

- The Fusion and Review Officer (FARO) **performs either:**
 - A **more detailed** analysis of a specific event **using IMS data and System software**
 - **Result:** event is published in the Updated Event Bulletin
 - Analysis **using member state specified data and/or software**
 - **Result:** a State Requested Methods Report (SRMR) is published on the IDC web portal

Performs Expert Technical Analysis: Use Case



Performs Expert Technical Analysis: Main Flow



1. Invoke Use Case Analyzes Events
2. Add refined solution to the updated bulletin
3. Invoke Use Case Analyzes Research Events
4. Create State Requested Methods Report (SRMR)
5. Make SRMR available for release

1) Invoke Use Case Analyzes Events

- The FARO **searches for the desired event** (see Search UIS Common Component) and **opens it for refinement** in the Updated Event Bulletin (UEB) processing stage.



(Processing stage configuration is notional.)

- The FARO **performs a more detailed analysis of the event** using standard System tools and displays (see UIS Analyzes Events)

2) Add refined solution to the Updated Event Bulletin

- The FARO marks the event as complete



(Processing stage configuration is notional.)

- The Updated Event Bulletin is created automatically from the completed processing stage

3) Invoke Use Case Analyzes Research Events

- **Alternatively, when using methods and data specifically requested by a member state**, the FARO performs event analysis outside of normal operations (see Analyzes Research Events UIS)

4) Create State Requested Methods Report (SRMR)

- Due to the amorphous nature of member states' requests (both the data to be analyzed as well as the methods to apply), the System does not prescribe a single template or mechanism for automatically generating the resulting SRMR, instead:
 - The FARO uses non-system tools (**Microsoft Word, PowerPoint, LaTeX**, etc.) to generate a SRMR. The FARO uses System screen and data capture tools to **import images, tables, etc. into the report.**

5) Make SRMR available for release

- The FARO uploads the SRMR to the externally-accessible web portal and informs interested parties.