

APPENDIX A. OPERATIONAL PROCESS FLOW CHARTS

The flow charts on the following pages illustrate the operational processes that could be carried out by the corridor management system envisioned in this requirements document. They show how the various “actors” in the system (the people and the technical components) could interact to execute a variety of tasks, including:

- Assessing corridor performance
- Detecting and verifying incidents
- Assessing the impact of incidents
- Creating, reviewing, and approving response plans
- Reviewing ICM system operations
- Addressing asset failures

A.1. INCIDENT RESPONSE CONTROL LOOP

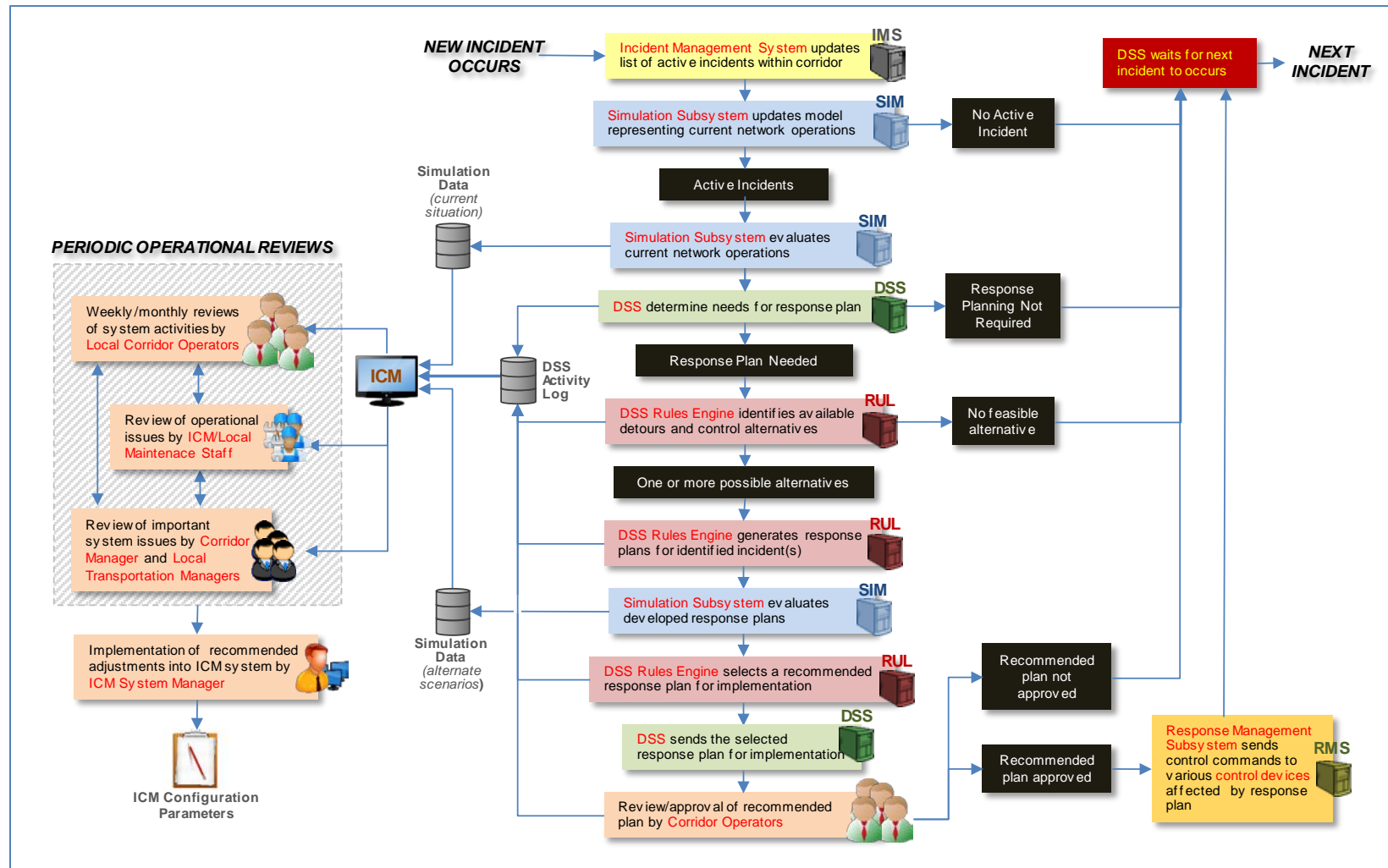


Figure A-1 – Envisioned Incident Response Control Loop

A.2. PERIODIC CORRIDOR PERFORMANCE ASSESSMENT

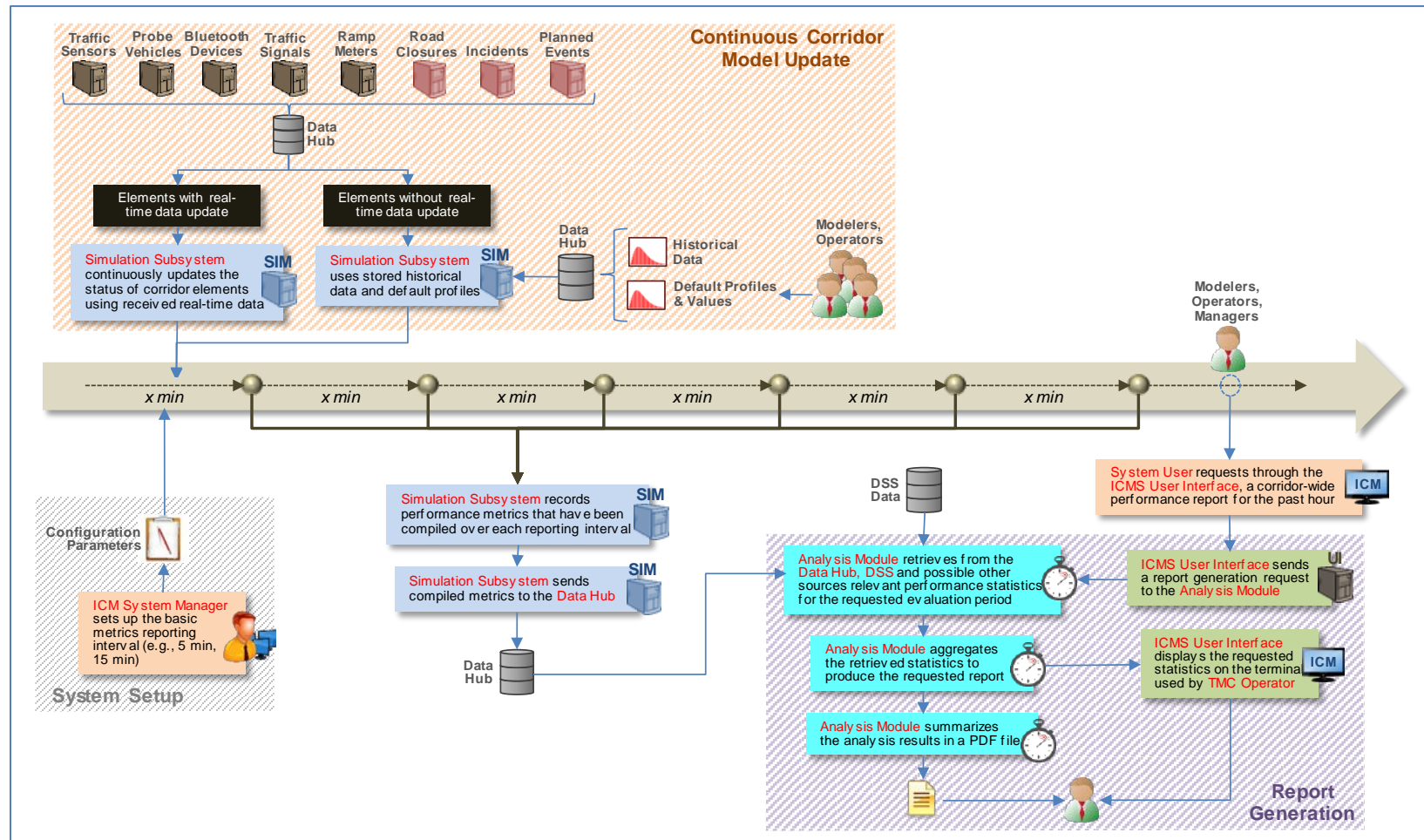


Figure A-2 – Periodic Corridor Performance Evaluation Process

A.3. INCIDENT/EVENT DETECTION

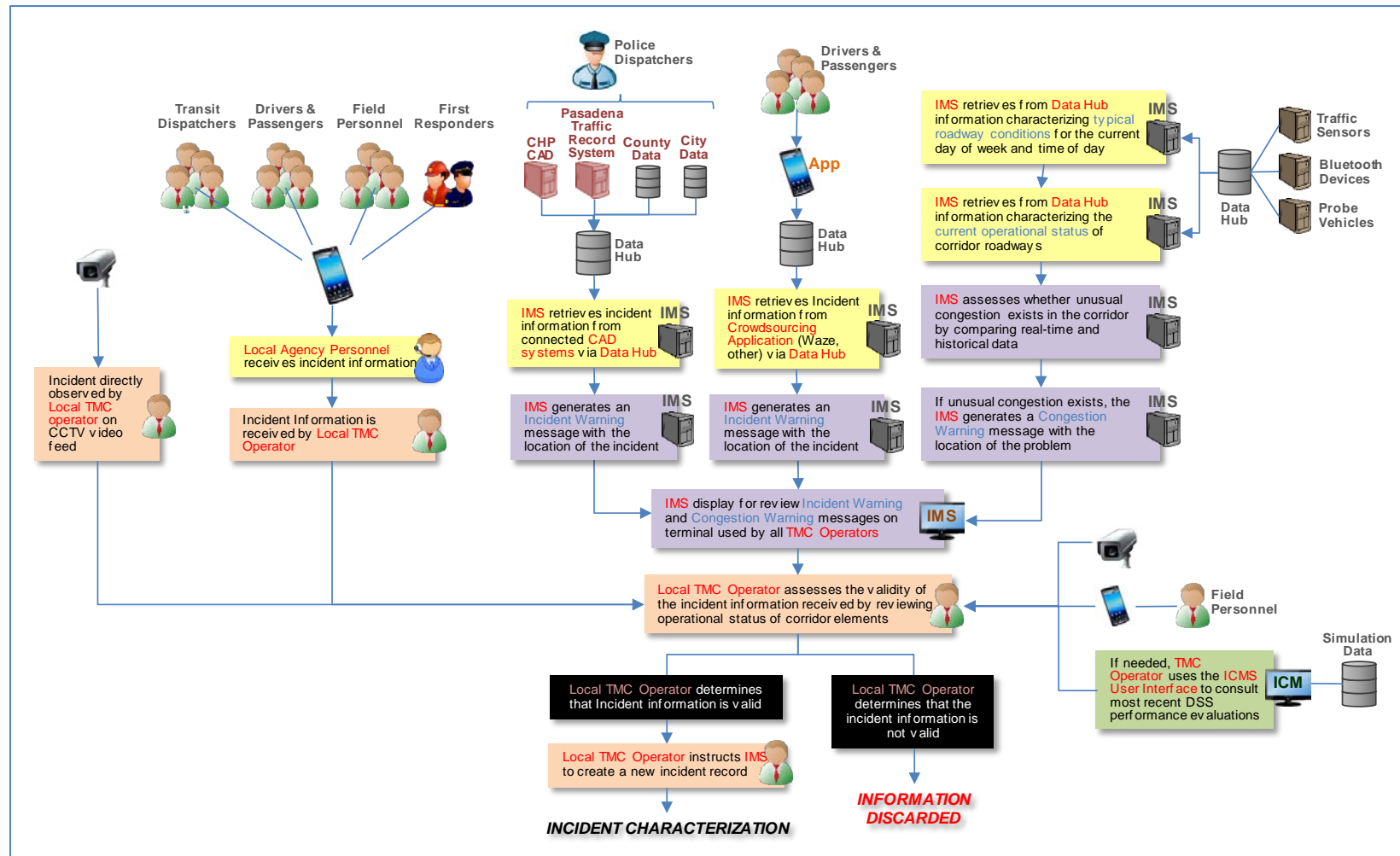


Figure A-3 – Incident Detection and Verification Process

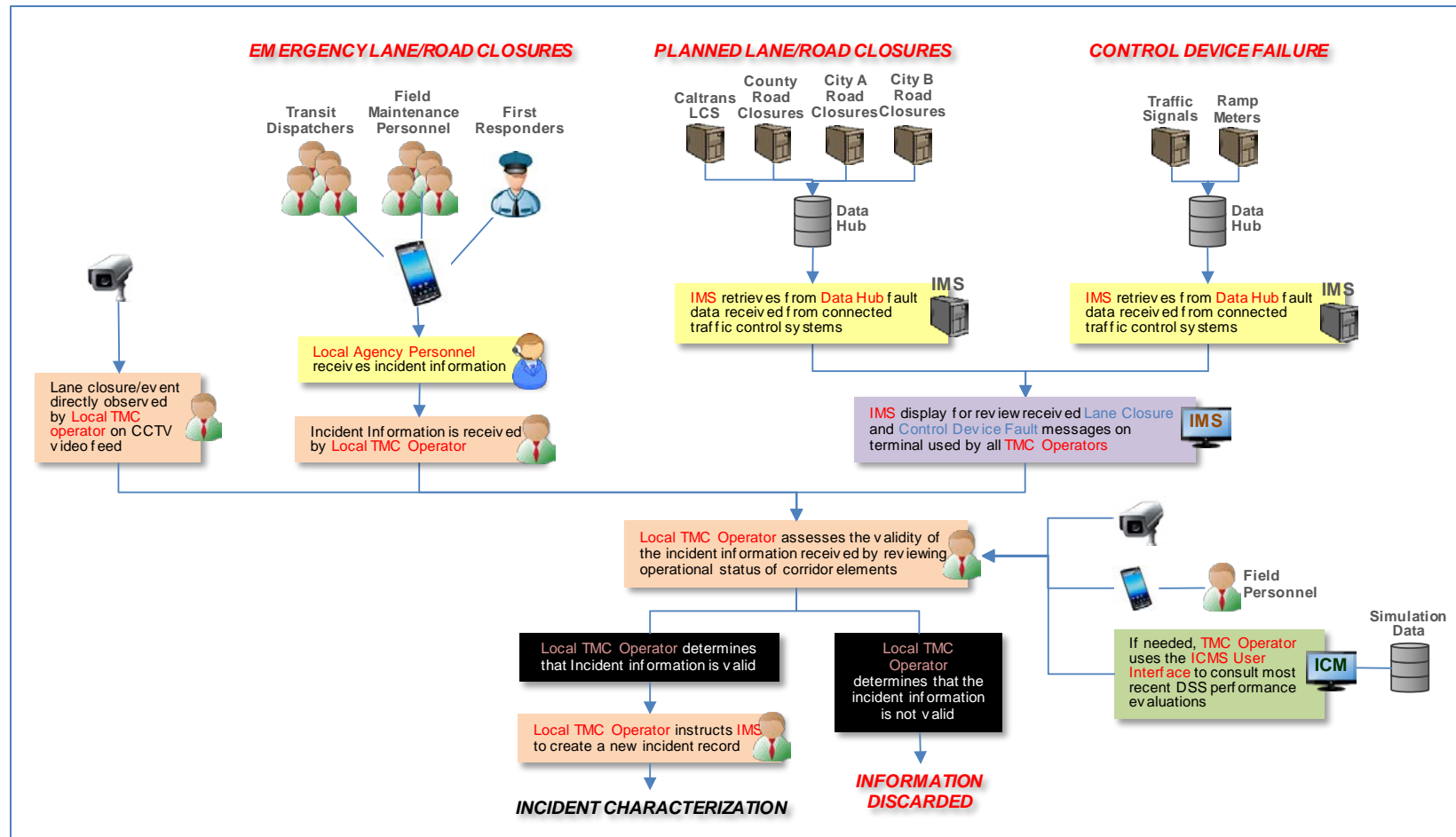


Figure A-4 – Event Detection and Verification Process

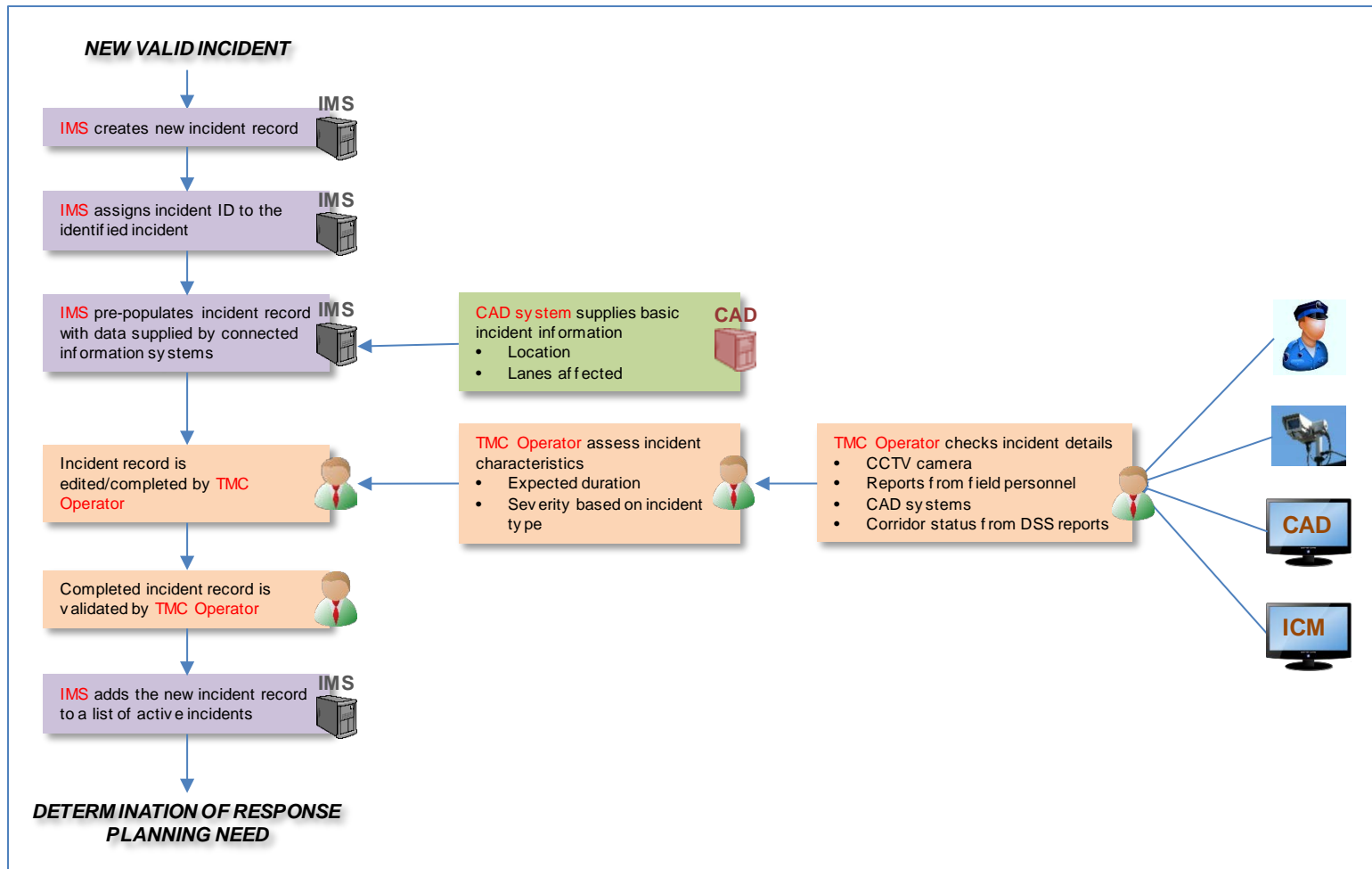


Figure A-5 – Incident Characterization Process

A.4. ONLINE CORRIDOR MODEL ADJUSTMENTS

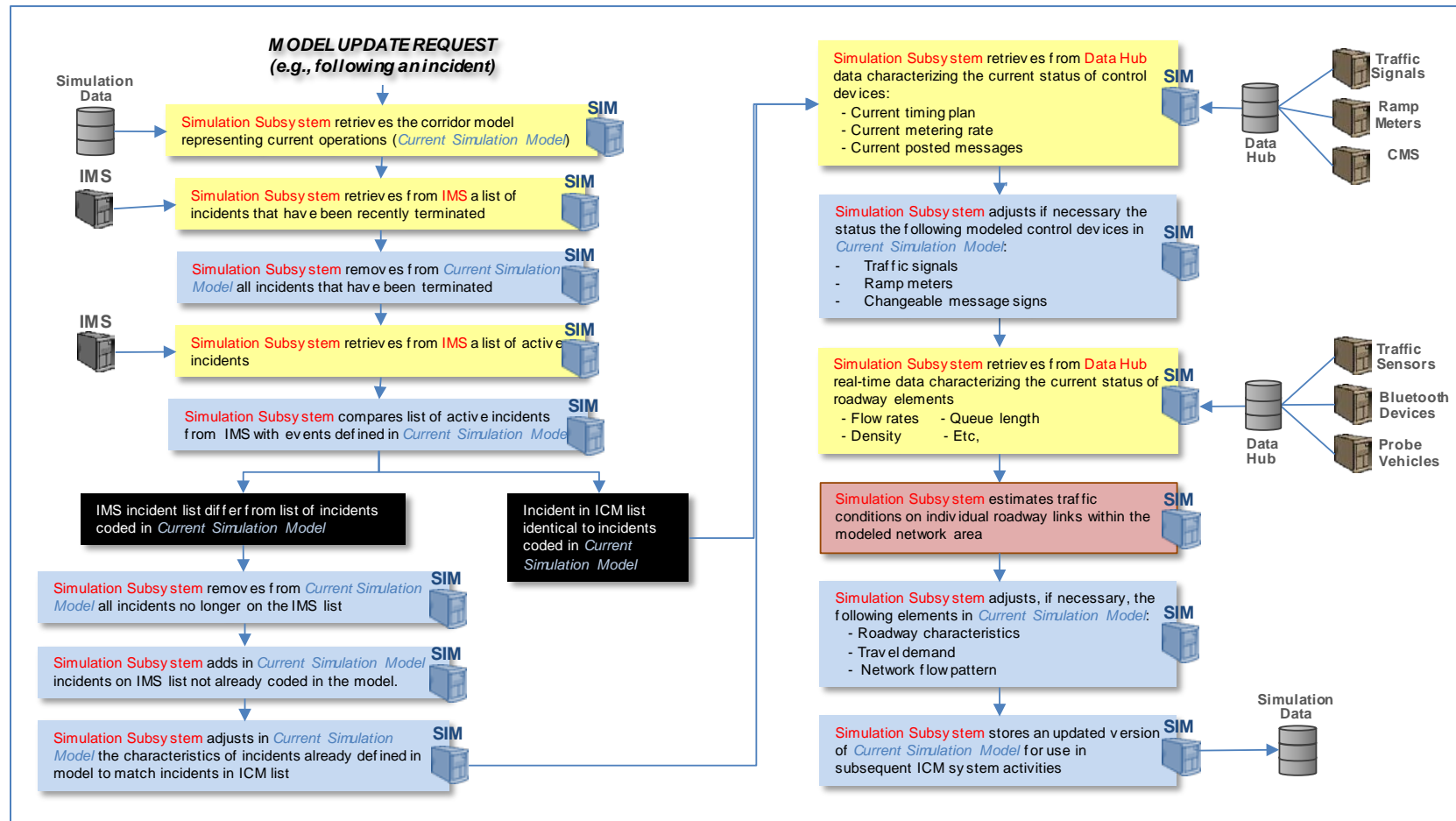


Figure A-6 – Corridor Model Online Adjustment Process

A.5. INCIDENT/EVENT IMPACT ASSESSMENT (RESPONSE NEED ASSESSMENT)

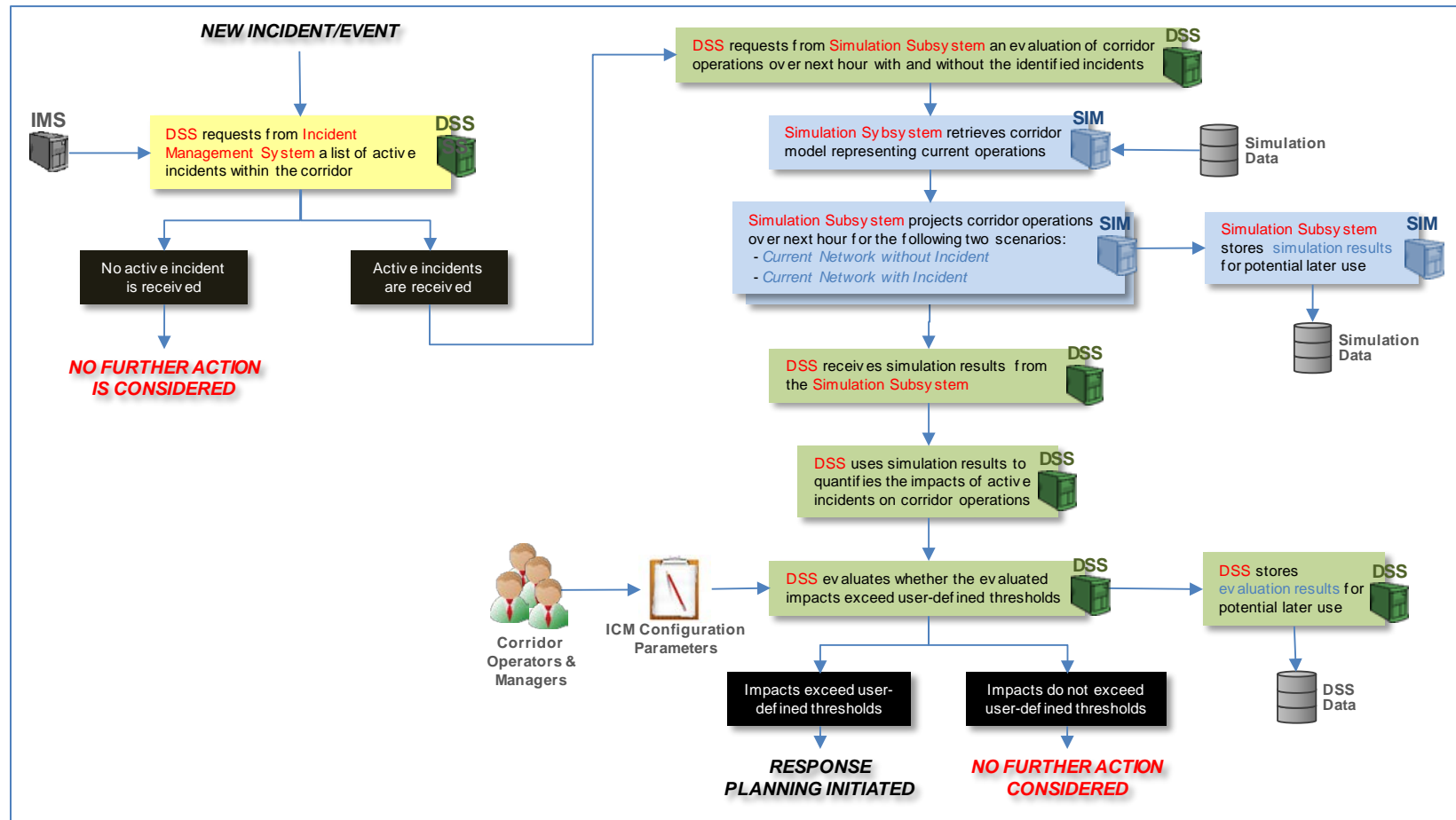


Figure A-7 – Incident/Event Impact Assessment Process

A.6. RESPONSE PLAN CREATION

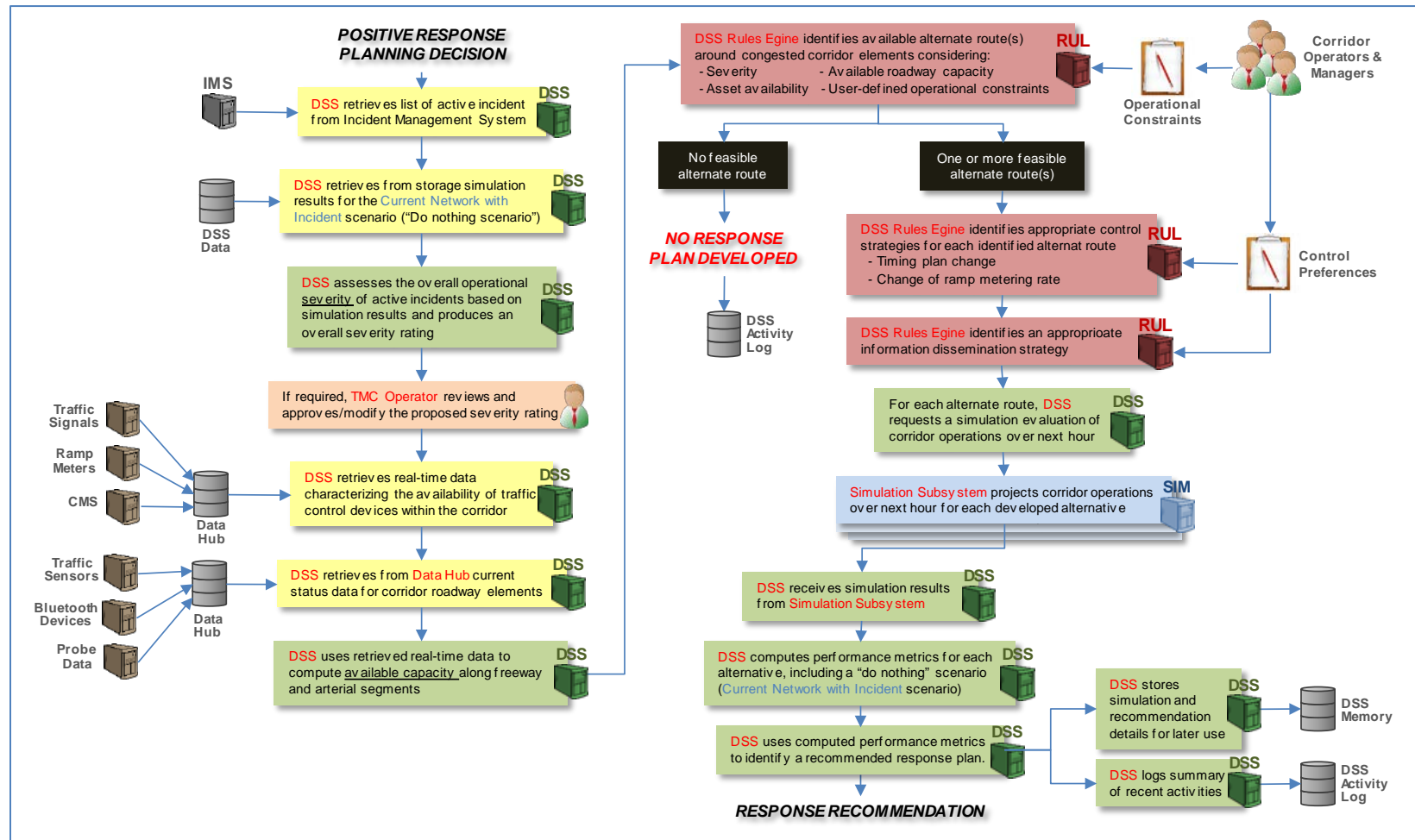


Figure A-8 – Response Plan Creation Envisioned Process

A.7. RESPONSE PLAN REVIEW/APPROVAL

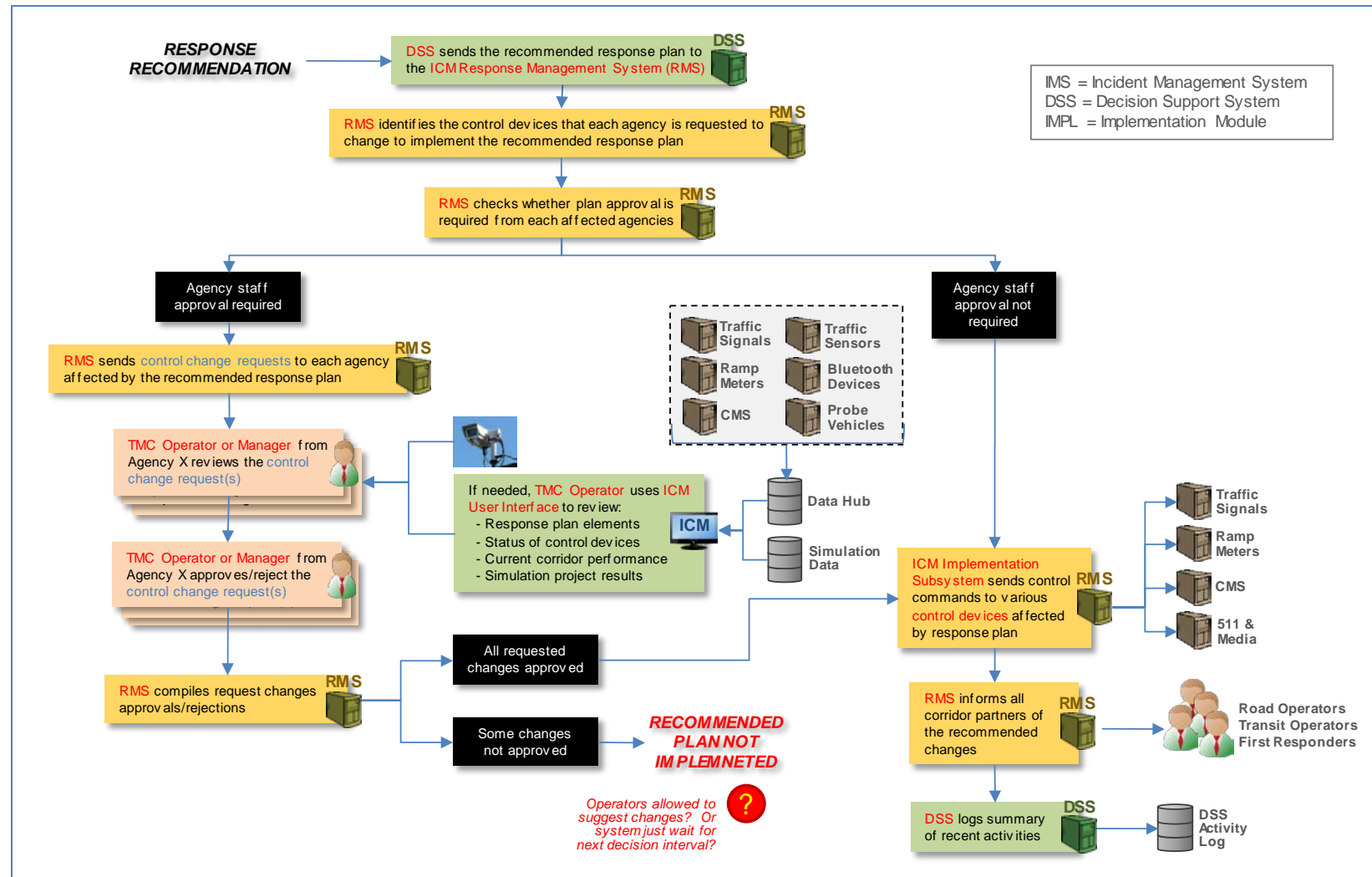


Figure A-9 – Response Plan Review/Approval Envisioned Process

A.8. ICM SYSTEM OPERATIONAL REVIEW

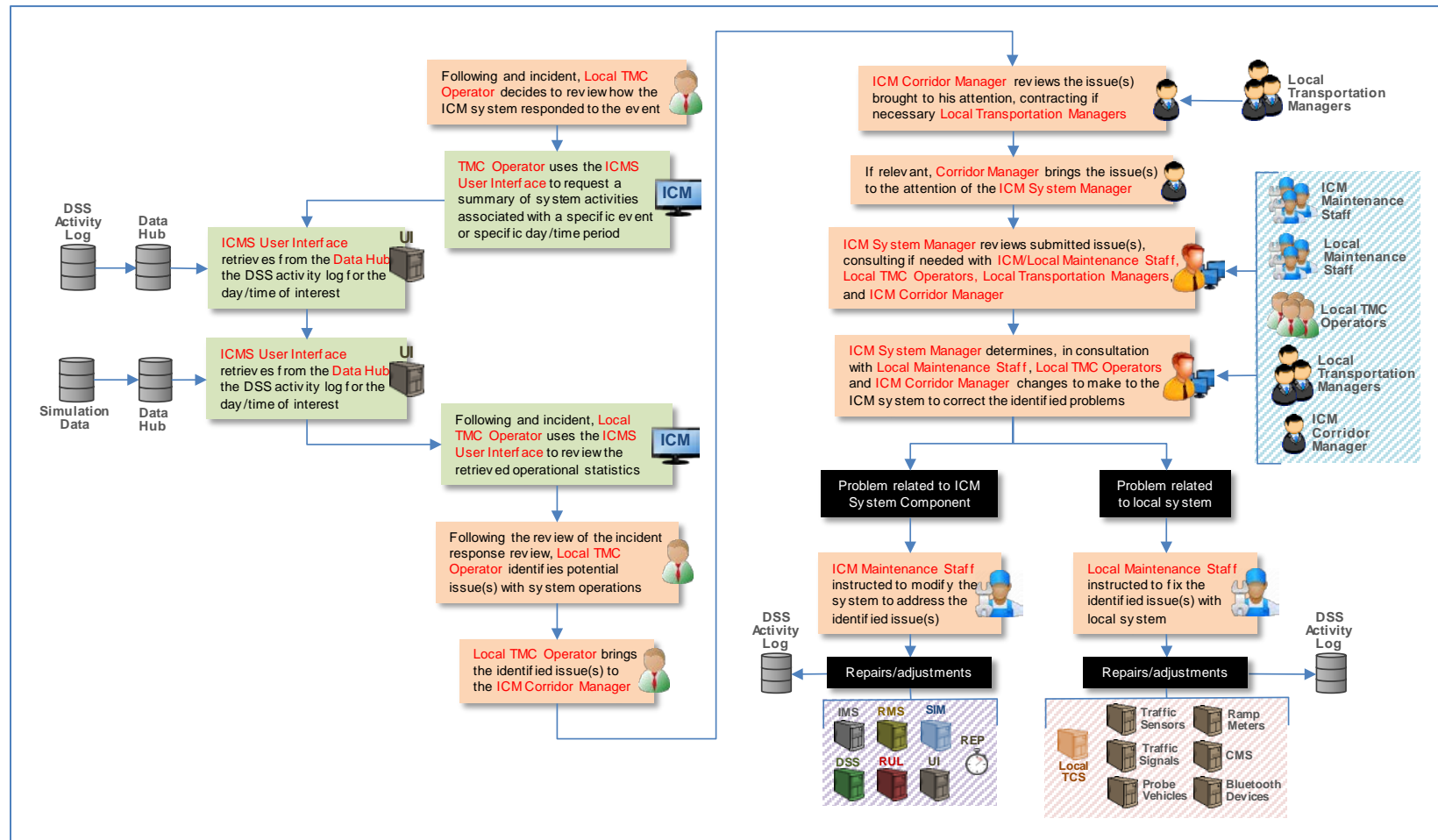
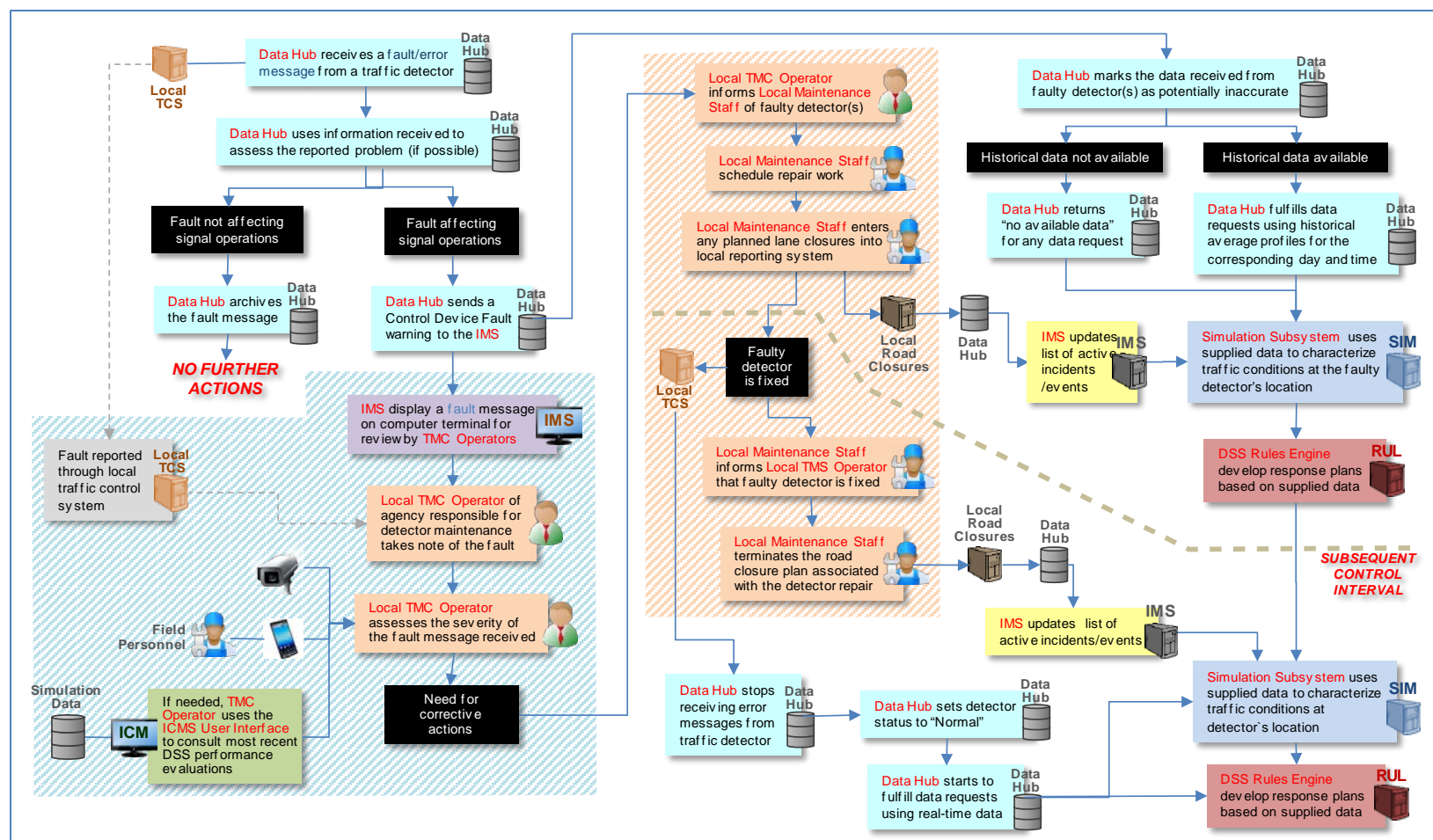


Figure A-10 – ICM System Operation Review Envisioned Process



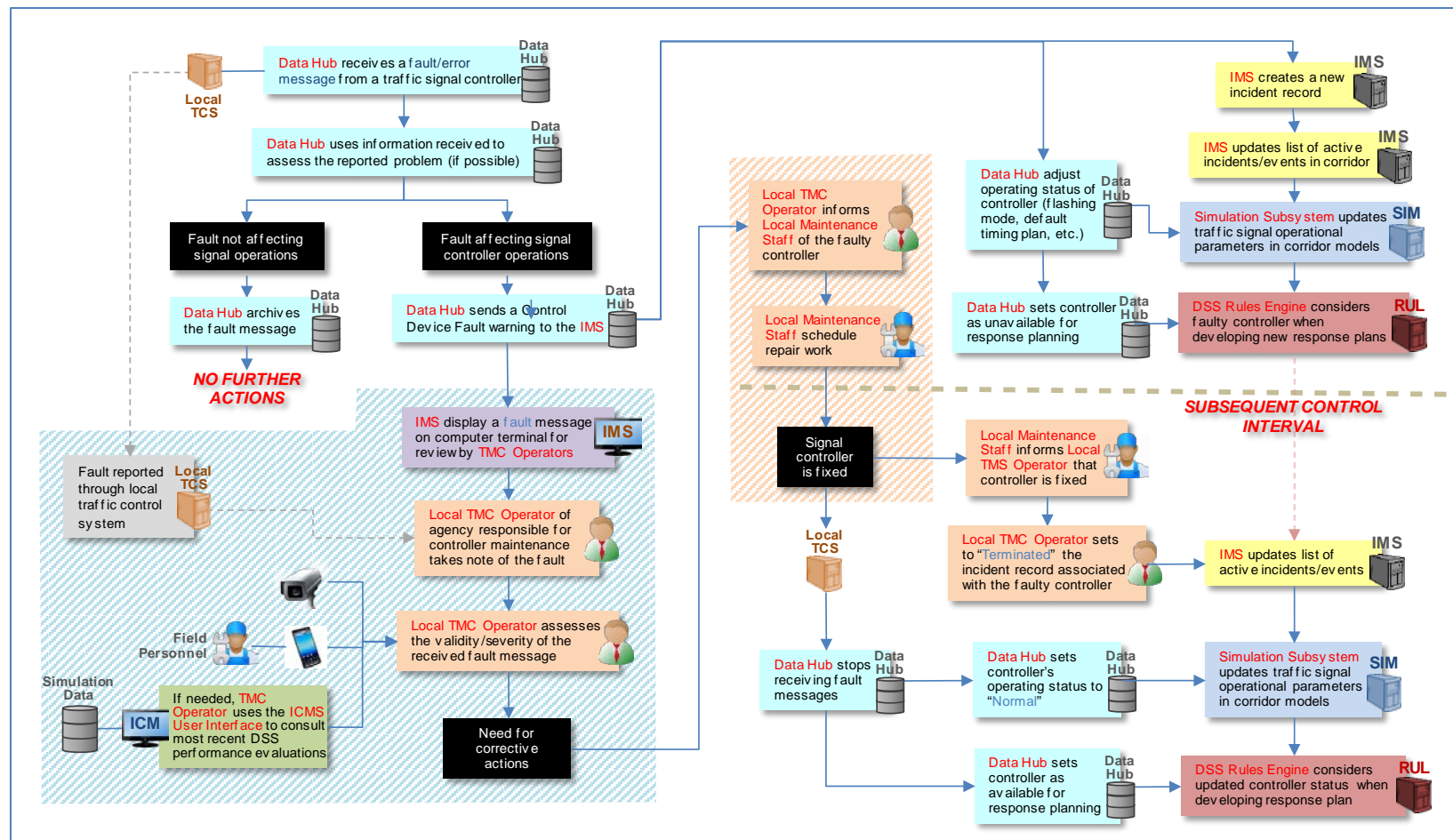


Figure A-12 – Envisioned Process for Addressing a Traffic Signal Controller Fault