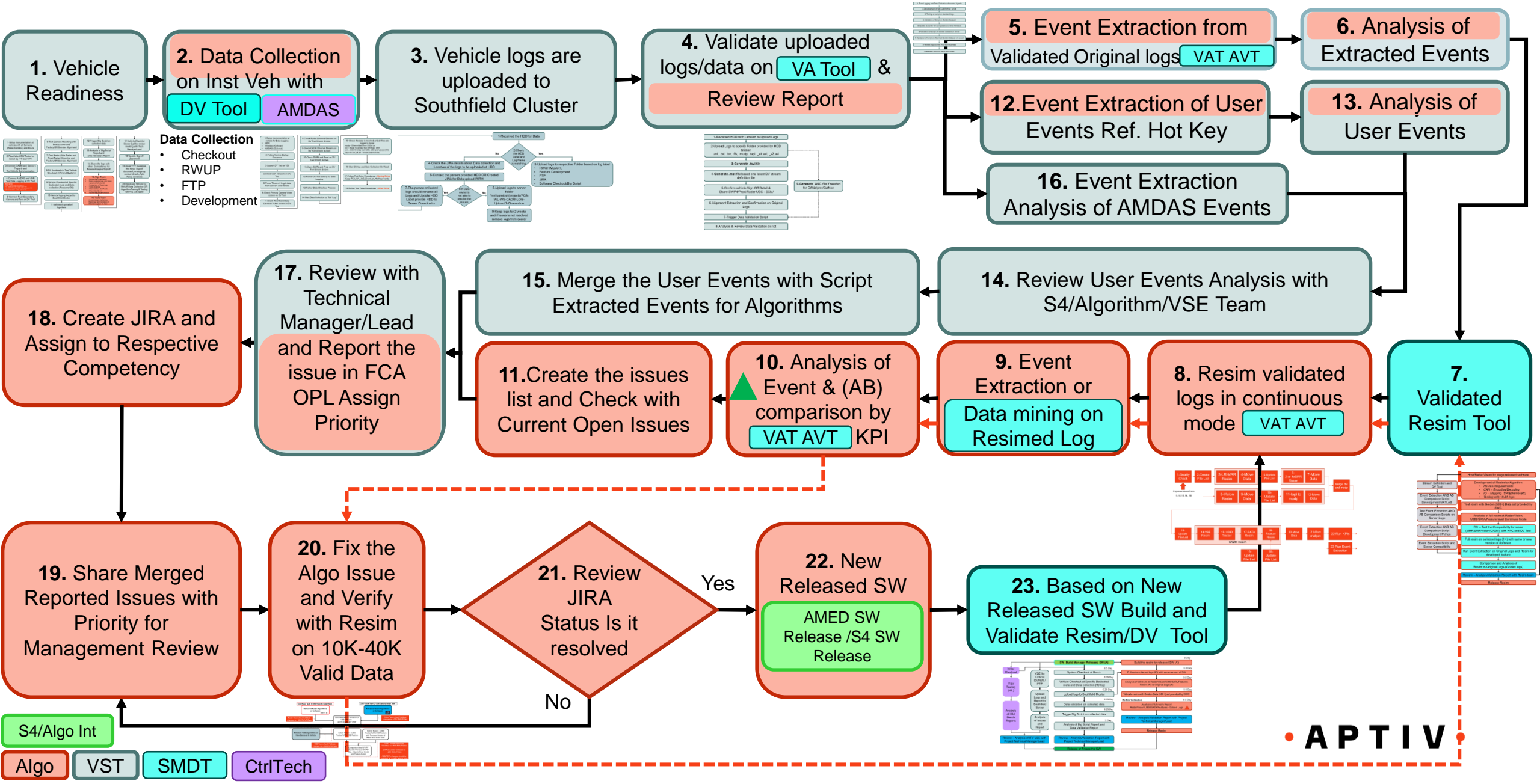**Amit Sharma**

May. 15, 2020

DATA FLOW –
DATA COLLECTION, ANALYSIS, EVENT EXTRACTION/USER EVENTS EXTRACTION, RESIM, KPI

APTIV

Data Flow – Data Analysis, Resim, Event Extraction/User Events, KPI

1. Vehicle Readiness

2. Data Collection on Inst Veh with `DV Tool` `AMDAS`

Data Collection
- Checkout
- RWUP
- FTP
- Development

3. Vehicle logs are uploaded to Southfield Cluster

4. Validate uploaded logs/data on `VA Tool` & Review Report

5. Event Extraction from Validated Original logs `VAT AVT`

6. Analysis of Extracted Events

12. Event Extraction of User Events Ref. Hot Key

13. Analysis of User Events

16. Event Extraction Analysis of AMDAS Events

17. Review with Technical Manager/Lead and Report the issue in FCA OPL Assign Priority

15. Merge the User Events with Script Extracted Events for Algorithms

14. Review User Events Analysis with S4/Algorithm/VSE Team

18. Create JIRA and Assign to Respective Competency

11. Create the issues list and Check with Current Open Issues

10. Analysis of Event & (AB) comparison by `VAT AVT` KPI

9. Event Extraction or `Data mining on Resimed Log`

8. Resim validated logs in continuous mode `VAT AVT`

7. Validated Resim Tool

19. Share Merged Reported Issues with Priority for Management Review

20. Fix the Algo Issue and Verify with Resim on 10K-40K Valid Data

21. Review JIRA Status Is it resolved — Yes / No

22. New Released SW — `AMED SW Release /S4 SW Release`

23. Based on New Released SW Build and Validate Resim/DV Tool

S4/Algo Int

Algo **VST** **SMDT** **CtrlTech**

APTIV

Process Data Logging on Ethernet and Coordination with Resim + DV Tool Team + DS Team (VAT/AVT)

APTIV
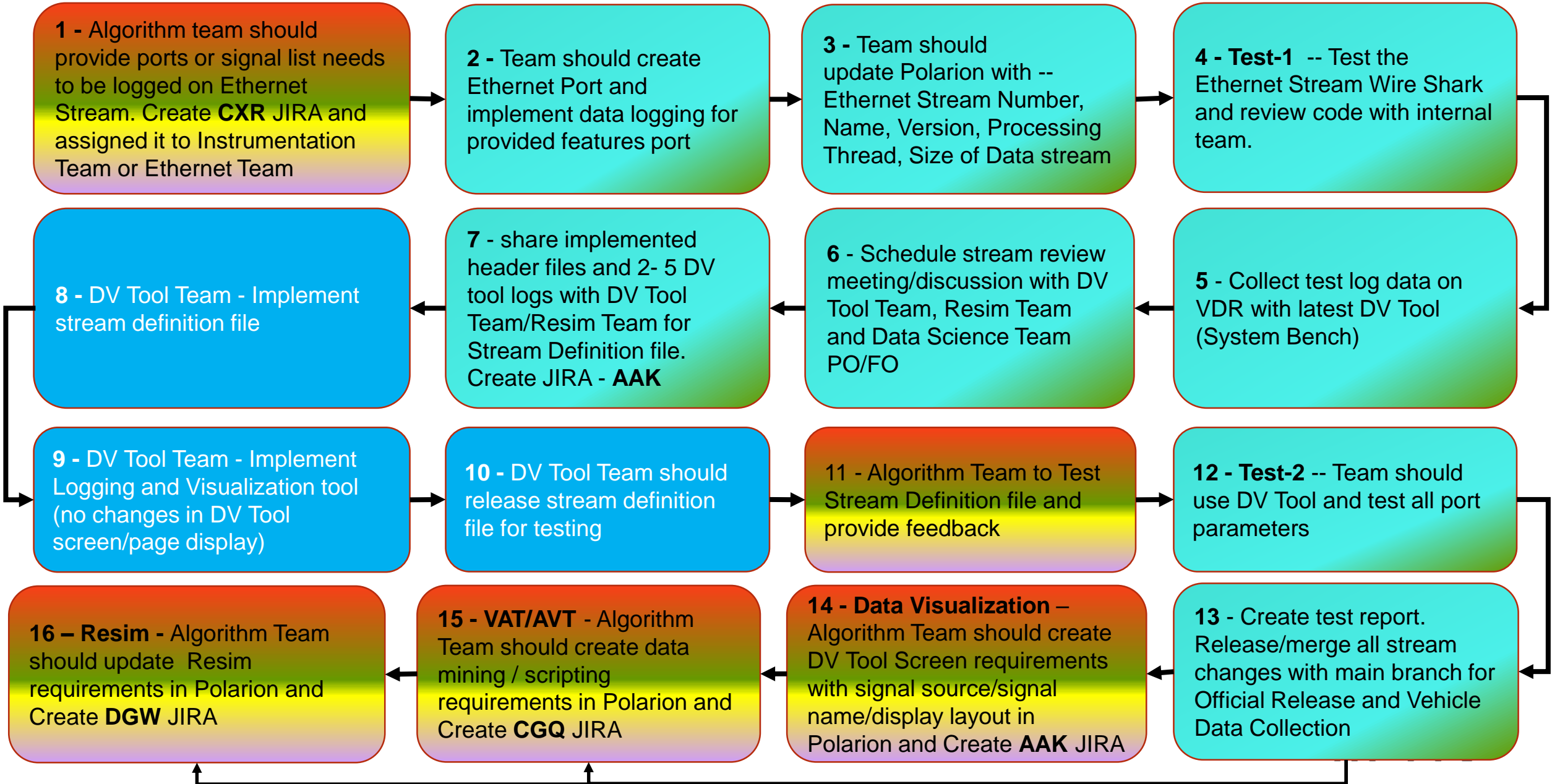
Data Logging Process

Legend:
- Sensor Algorithm
- DV Tool Team
- Radar/Vision Team
- Module Algorithm
- Instrumentation Team
- Algorithm Integration

1 - Algorithm team should provide ports or signal list needs to be logged on Ethernet Stream. Create **CXR** JIRA and assigned it to Instrumentation Team or Ethernet Team

→

2 - Team should create Ethernet Port and implement data logging for provided features port

→

3 - Team should update Polarion with -- Ethernet Stream Number, Name, Version, Processing Thread, Size of Data stream

→

4 - Test-1 -- Test the Ethernet Stream Wire Shark and review code with internal team.

↓

8 - DV Tool Team - Implement stream definition file

←

7 - share implemented header files and 2- 5 DV tool logs with DV Tool Team/Resim Team for Stream Definition file. Create JIRA - **AAK**

←

6 - Schedule stream review meeting/discussion with DV Tool Team, Resim Team and Data Science Team PO/FO

←

5 - Collect test log data on VDR with latest DV Tool (System Bench)

↓

9 - DV Tool Team - Implement Logging and Visualization tool (no changes in DV Tool screen/page display)

→

10 - DV Tool Team should release stream definition file for testing

→

11 - Algorithm Team to Test Stream Definition file and provide feedback

→

12 - Test-2 -- Team should use DV Tool and test all port parameters

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16 – Resim - Algorithm Team should update Resim requirements in Polarion and Create **DGW** JIRA

←

15 - VAT/AVT - Algorithm Team should create data mining / scripting requirements in Polarion and Create **CGQ** JIRA

←

14 - Data Visualization – Algorithm Team should create DV Tool Screen requirements with signal source/signal name/display layout in Polarion and Create **AAK** JIRA

←

13 - Create test report. Release/merge all stream changes with main branch for Official Release and Vehicle Data Collection

Thank you.

APTIV