



# TIDES Update

## (Transit ITS Data Exchange Specification)

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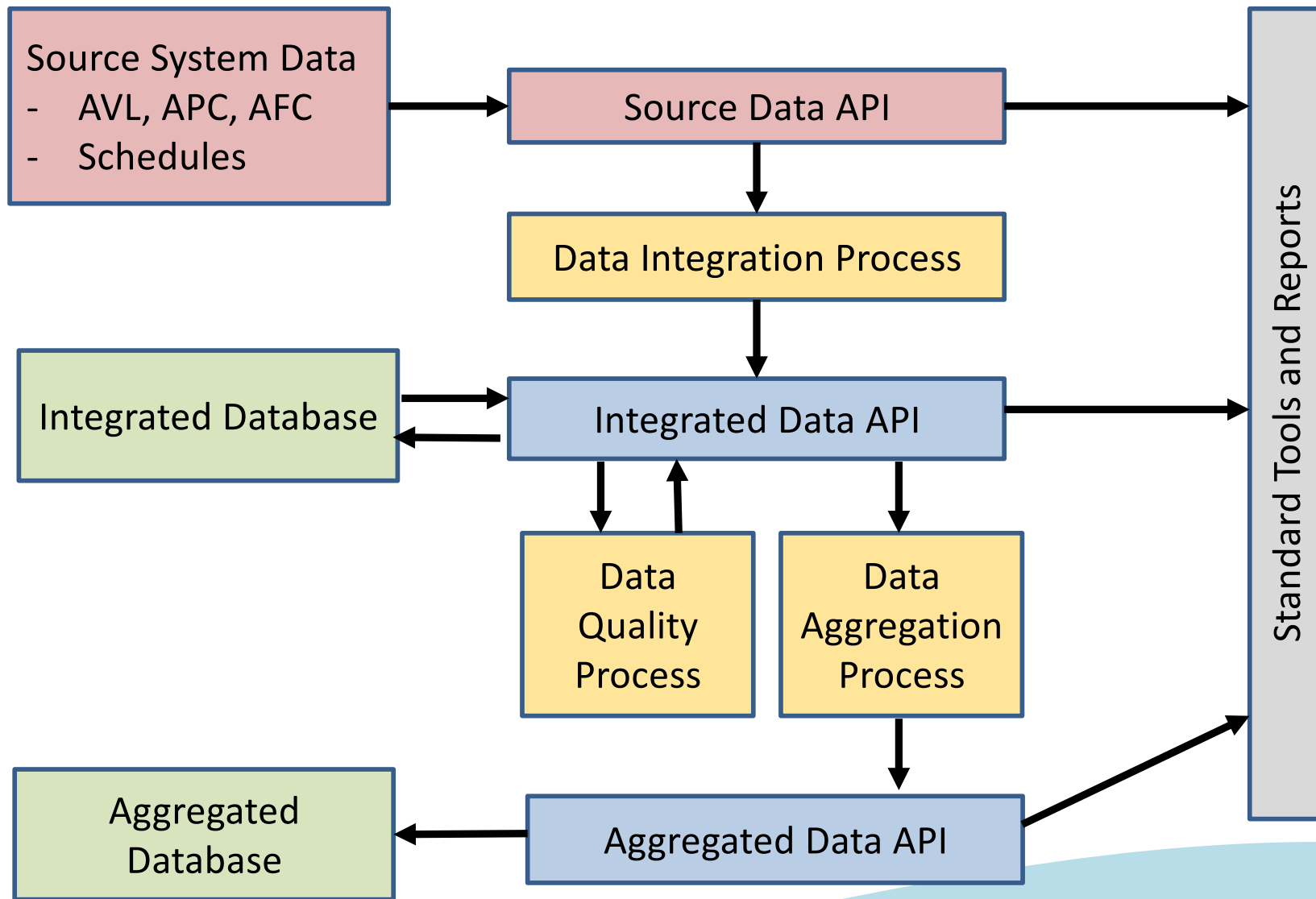
# What is TIDES

- A standard approach for accessing and managing Transit ITS data
  - Primarily vehicle location and passenger activity (AVL, APC, AFC)
- Similar concept to GTFS, but not just schedules and not for real-time customer information

# Why TIDES?

- Support transit agencies that have difficulty accessing and using their archived ITS data
- Promote development and sharing of tools and reports based on ITS data
- Promote research using ITS data
- Bottom line: improve quality, efficiency and safety of transit service

# TIDES High Level Architecture



# What will TIDES look like

- A set of standard database specifications
- A set of back-end data transformation (ETL) tools to move data from source systems to standardized structures
- A set of front-end application programming interfaces (APIs) to access data

# Where are we at with TIDES?

- Large group of interested stakeholders: transit agencies, researchers, consultants, systems vendors
- High-level concept architecture developed
- First steps taken to define database structures

# Integrated Database Elements

- Raw APC, AVL, AFC transactions
- Scheduled trips, scheduled stops, scheduled stop intervals
- Match stops times and passenger activity data to scheduled trips and stops
- Match vehicle location data to scheduled stop intervals
- Calculated fields: load, headways, travel time, etc.

# Challenges and Next Steps

- Many interested and involved, but lack adequate resources to maintain momentum and leverage individual contributions from multiple sources
- Explore organizational and funding options to continue progress



# TIDES Contact

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