

## **Weigh In Motion (WIM) Interfacing With AALPS and TC-AIMS II**

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Currently the Army manually identifies the vehicles and enters this information into TC-AIMS II. The Army also weighs vehicles manually calculates vehicle individual axle weights, total vehicular weight and manually measure the length of the vehicle. They then calculate the center of balance data. and manually mark this information on the vehicle. This information is then manually transferred to the AALPS personnel who manually enter it into the AALPS system. Each of these steps in the process is prone to human error. By establishing (1) an automated data exchange link between the vehicle Radio Frequency Identificaiton (RFID) tags and WIM; and (2) an automated data exchange link between WIM and AALPS, this WIM data can be automatically transferred from TC-AIMS-II to WIM and from WIM to AALPS thus eliminating those human errors and at the same time expediting the process. The first step in acquiring this data exchange capability is to establish an data exchange plan agreed to by the WIM, TC-AIMS II (with reference to DOD RFID), and AALPS Configuration Control Boards. Critical to this data exchange plan is a modeling effort to document the process and the data and information flow through the system. Key Use Cases and data/informaion flow are presented herein.

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