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**Fort Capital**

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**Truck Detection  
Use-Case 03: Detect Truck on A Map**

**Version <3.0>**

## Revision History

<b>Date</b>	<b>Version</b>	<b>Description</b>	<b>Author</b>
10/01/2020	1.0	Use Case 1	Trang Dao, Minh Nguyen
02/01/2021	2.0	Use Case 2	Minh Nguyen
03/10/2021	3.0	Use Case 3	Minh Nguyen

## UC01 Detect Truck on A Map

### Brief Description:

This use case is written from the user's perspective. The use case describes the Truck Detective system's behavior under various conditions as it responds to a request from one of the stakeholders.

**Primary Actor:** CTO, CEO, COO and VP of Investments of Fort Capital

**Level:** High

**Stakeholders and Interests:** CTO, CEO, COO and VP of Investments of Fort Capital with interests in better understanding of geographic areas of interest.

### Preconditions:

- The areas, which are considered, are Dallas, Denton, Collin, Tarrant County.
- The zoom scale of satellite images is larger than or equal to 18.
- The system updates satellite images periodically.

**Postconditions:** The system will output a segmentation map of a target area and classify trucks located areas.

**Trigger:** The user chooses an area.

### Main Success Scenario:

1. The user indicates that she wants to get a map of where trucks are located on a specific area.
2. The system will gather the latest satellite images from the region.
3. The system will segment the satellite images and highlighted trucks detected in those images
4. The system will show a heat map of highlighted areas having trucks located and the number of trucked.
5. The system allows the user to zoom in, zoom out or export the map.
6. The user exits the system.
7. The user can use the result from the system to return to the client's ETL system for analysis

### Extensions:

- 8.a The user indicate another area:  
The use case returns to step 2 and continues.