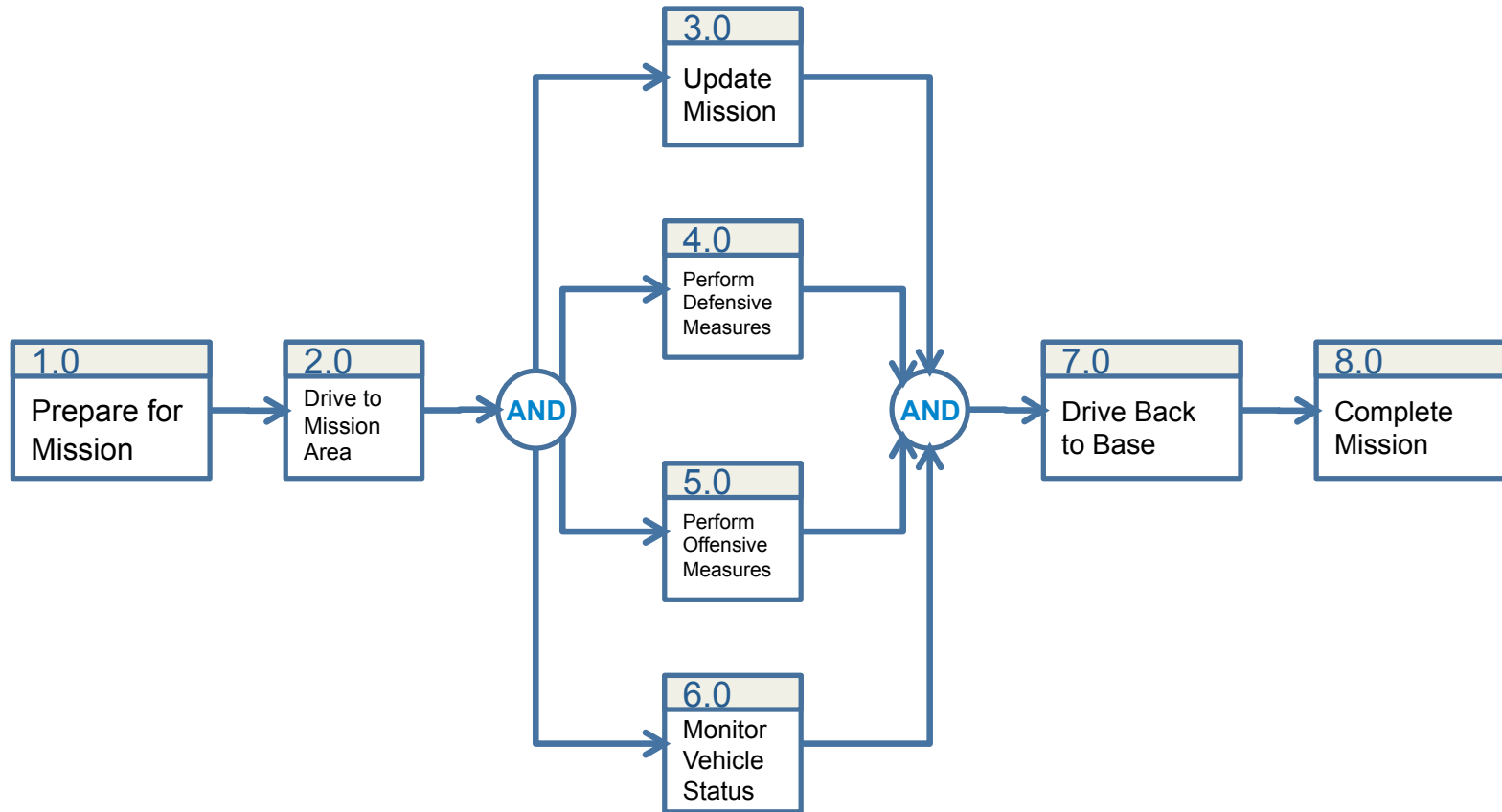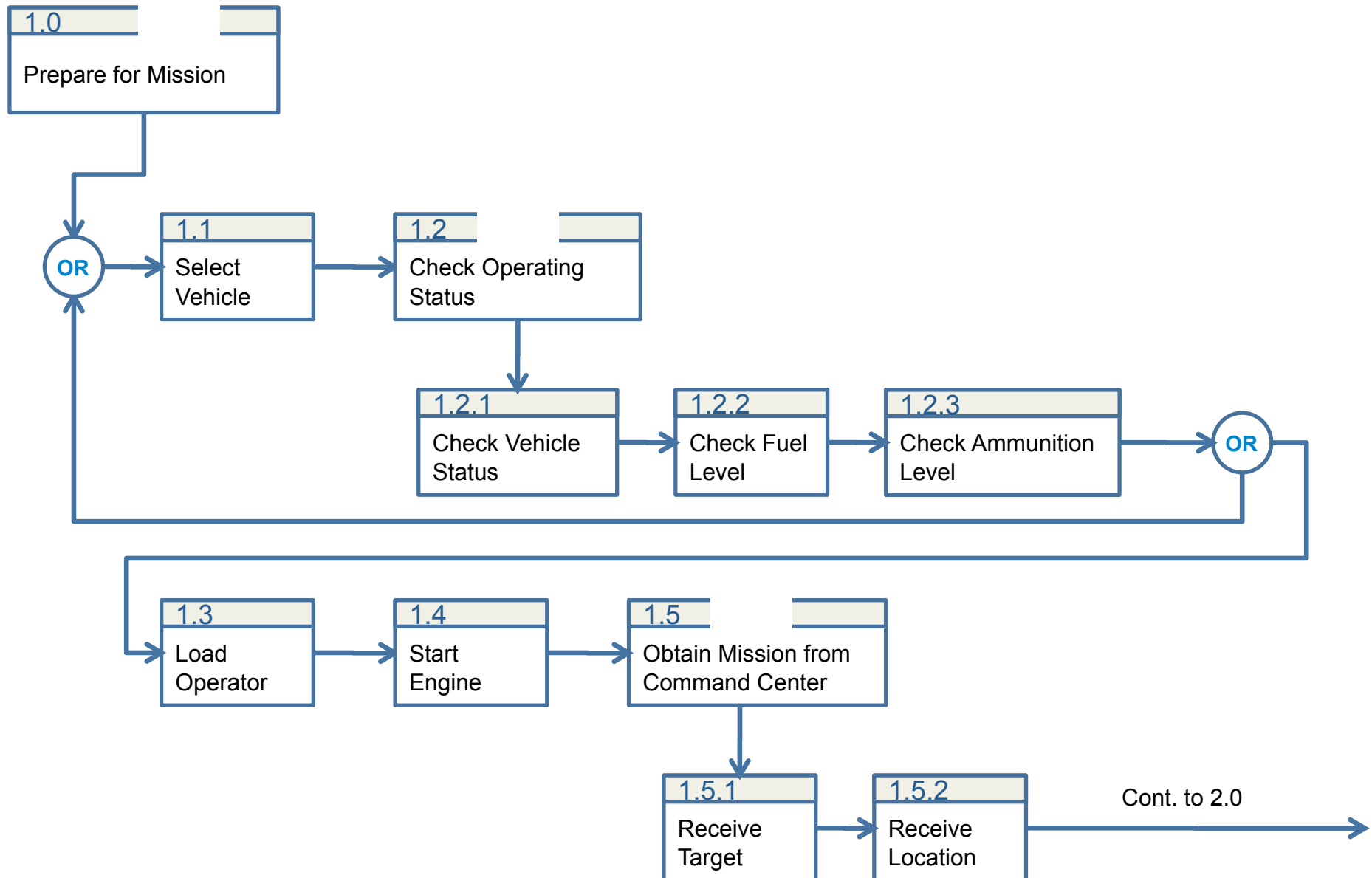# Functional Flow Diagram, overall overview

Functional Flow Diagram, 1.0 details

1.0
Prepare for Mission

OR

1.1
Select Vehicle

1.2
Check Operating Status

1.2.1
Check Vehicle Status

1.2.2
Check Fuel Level

1.2.3
Check Ammunition Level

OR

1.3
Load Operator

1.4
Start Engine

1.5
Obtain Mission from Command Center

1.5.1
Receive Target

1.5.2
Receive Location

Cont. to 2.0

Functional Flow Diagram, 2.0 details

Cont. from 1.5.2

OR

Cont. from 3.0

2.0
Drive to Mission Location

2.1
Map Route

2.2
Follow Route

Cont. to 3.0, 4.0, 5.0 AND 6.0
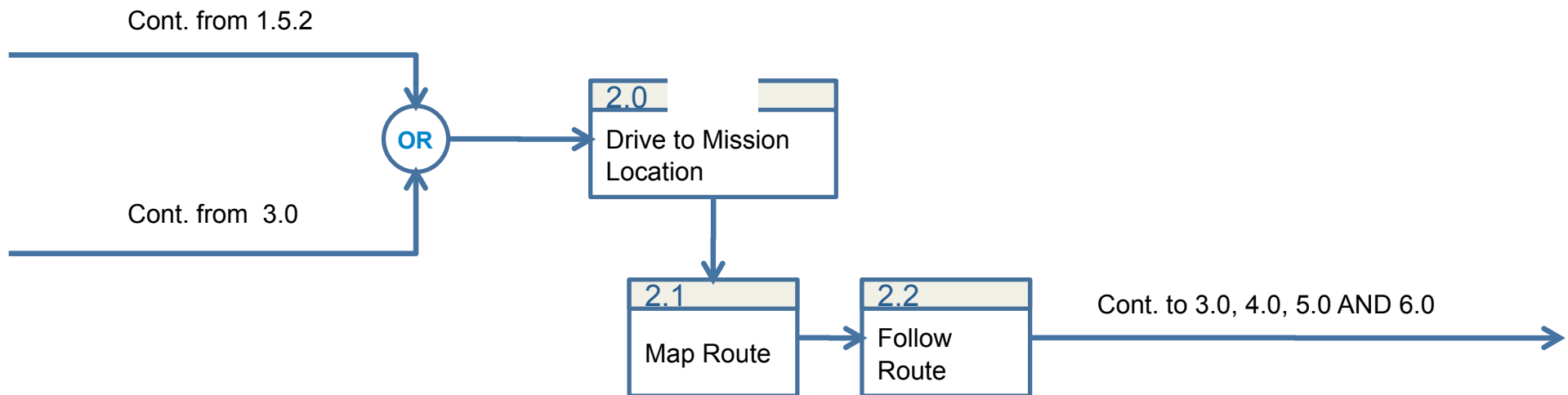
Functional Flow Diagram, 3.0 – 6.0 overview
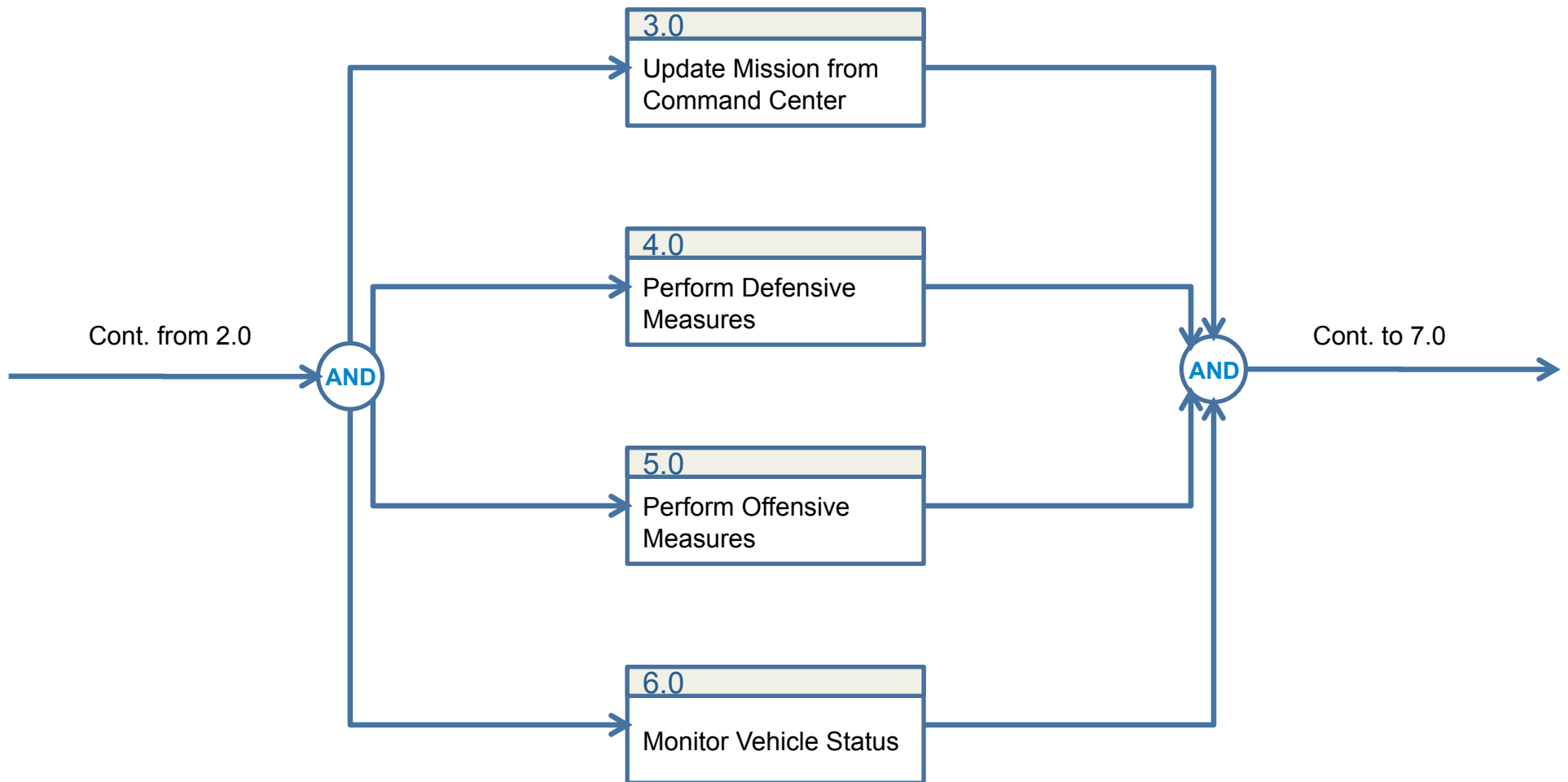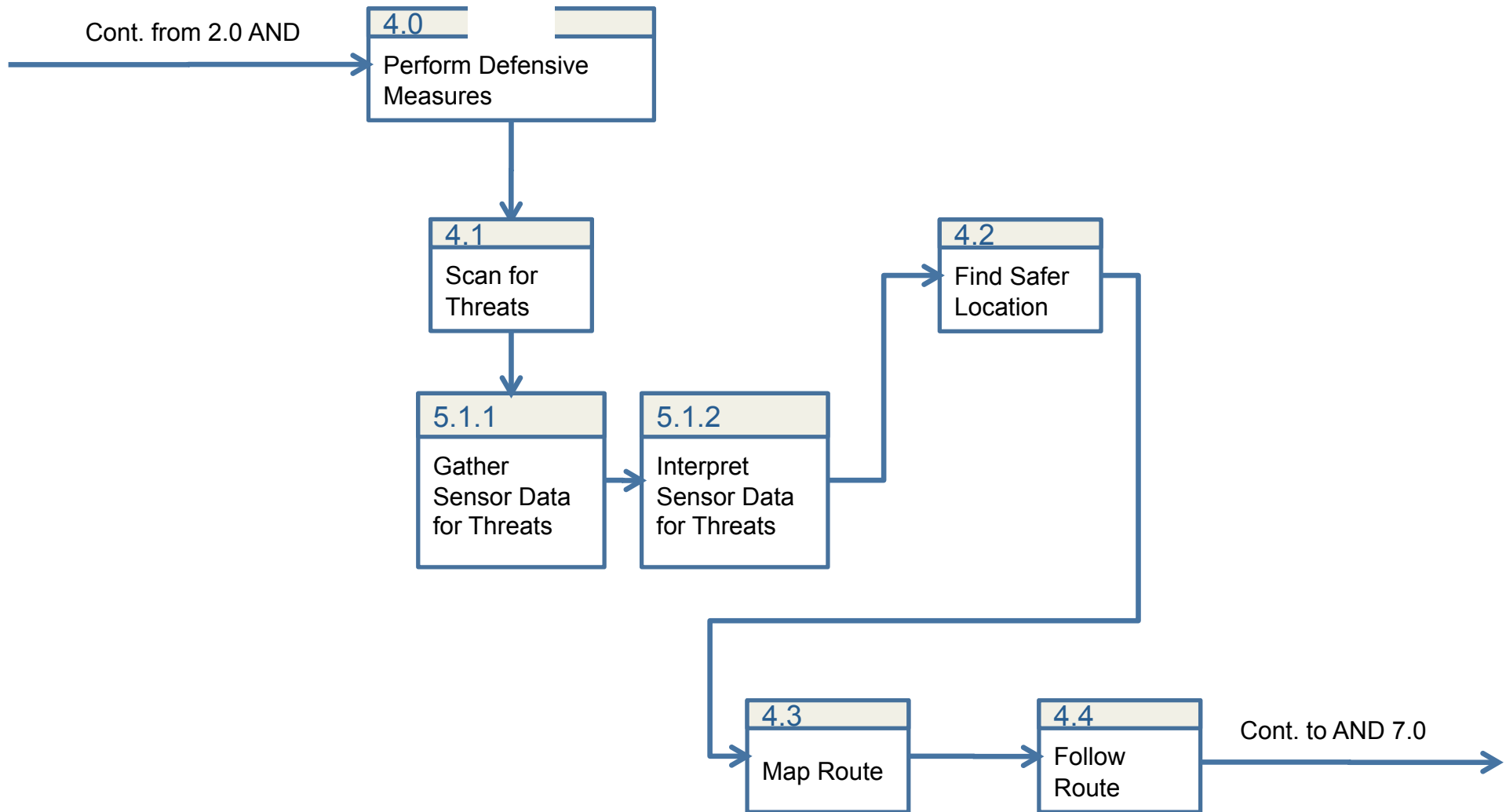
Functional Flow Diagram, 3.0 details

Cont. from 2.0 AND

3.0

Update Mission from
Command Center

Cont. to AND 7.0

3.1

Update
Target

3.2

Update
Location

OR

Cont. to OR 2.0
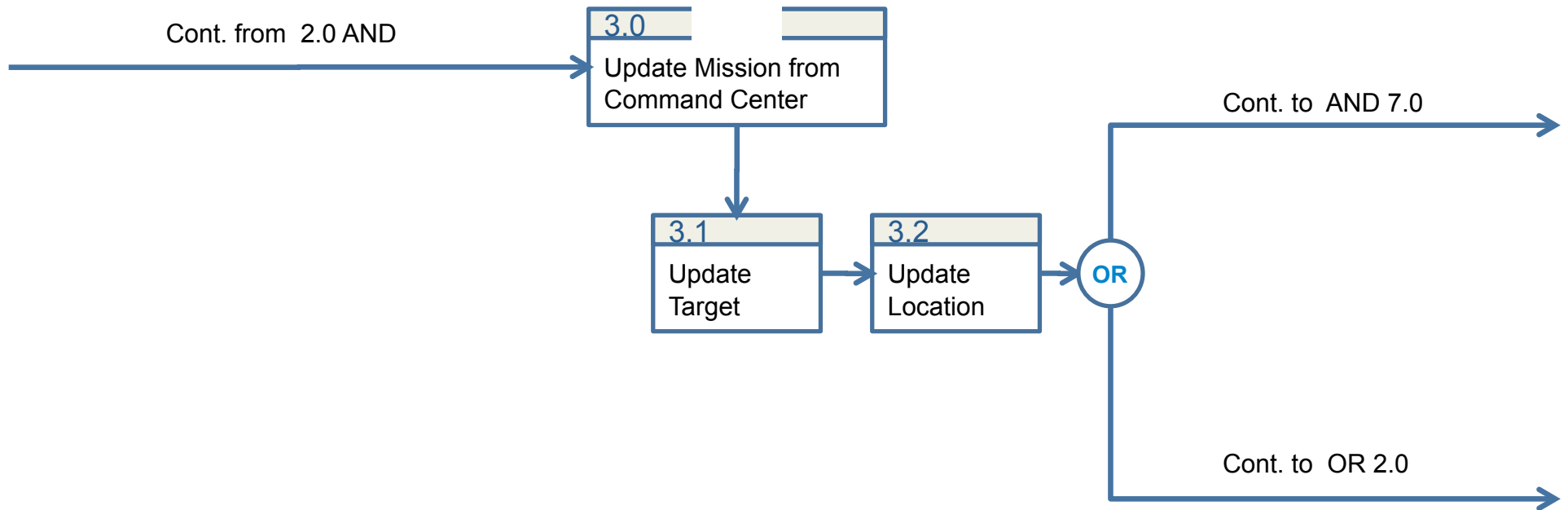
Functional Flow Diagram, 4.0 details

Cont. from 2.0 AND

4.0
Perform Defensive Measures

4.1
Scan for Threats

4.2
Find Safer Location

5.1.1
Gather Sensor Data for Threats

5.1.2
Interpret Sensor Data for Threats

4.3
Map Route

4.4
Follow Route

Cont. to AND 7.0

Functional Flow Diagram, 5.0 details

Cont. from 2.0 AND →

5.0 Perform Offensive Measures

5.1 Scan for Target

5.1.1 Gather Sensor Data for Threats

5.1.2 Interpret Sensor Data for Threats

5.2 Identify Target

OR

5.3 Acquire Target

5.4 Activate Weapon System

5.4.1 Select Weapon System

5.4.2 Load Weapon

5.5 Fire Weapon

5.6 Assess Damage

OR

Cont. to AND 7.0 →
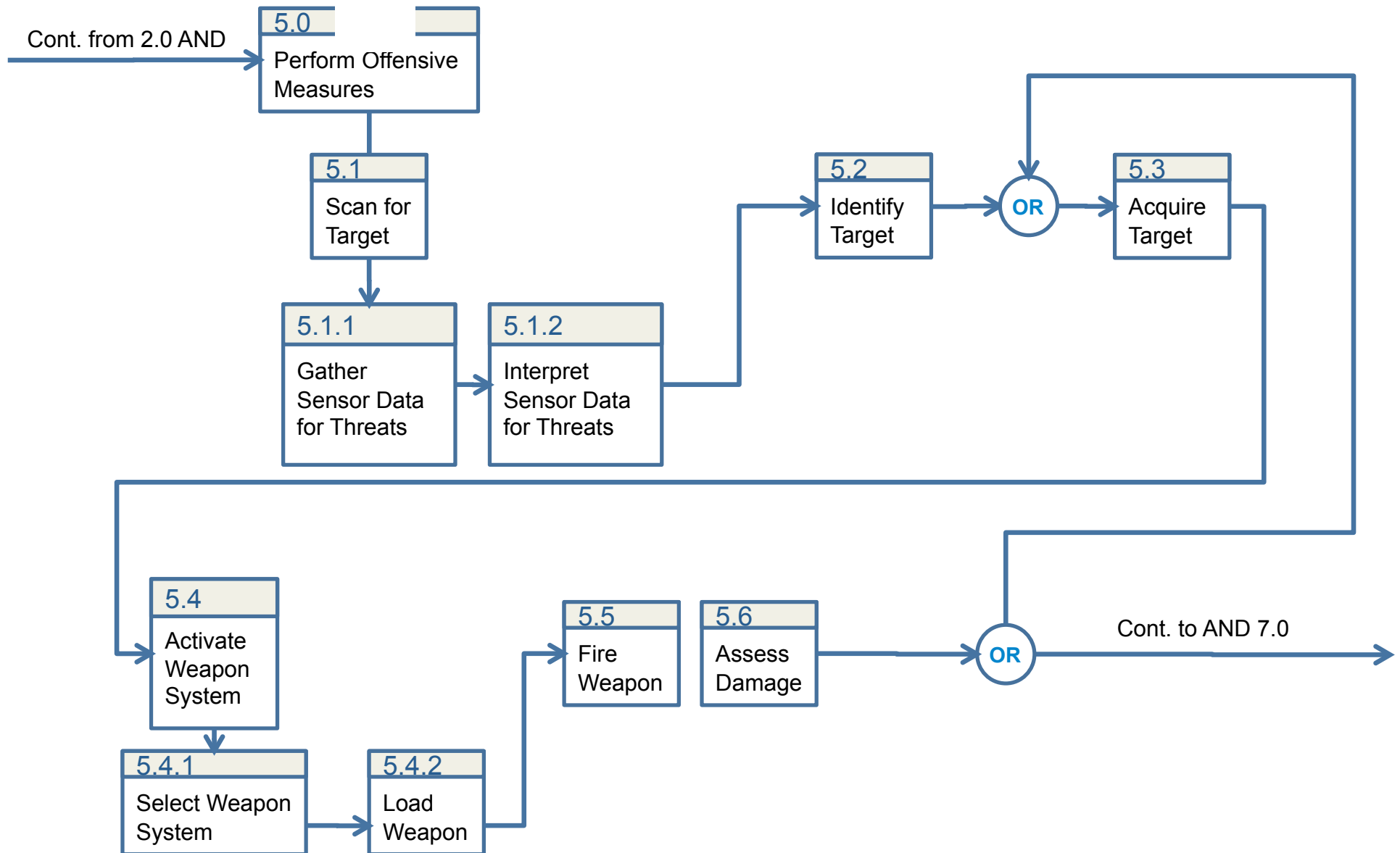
Functional Flow Diagram, 6.0 details

Cont. from 2.0 AND

6.0

Monitor Vehicle Status

6.1

Detect Impact to Vehicle

6.1

Assess Damage to Vehicle

6.2

Report Vehicle Status

Cont. to AND 7.0
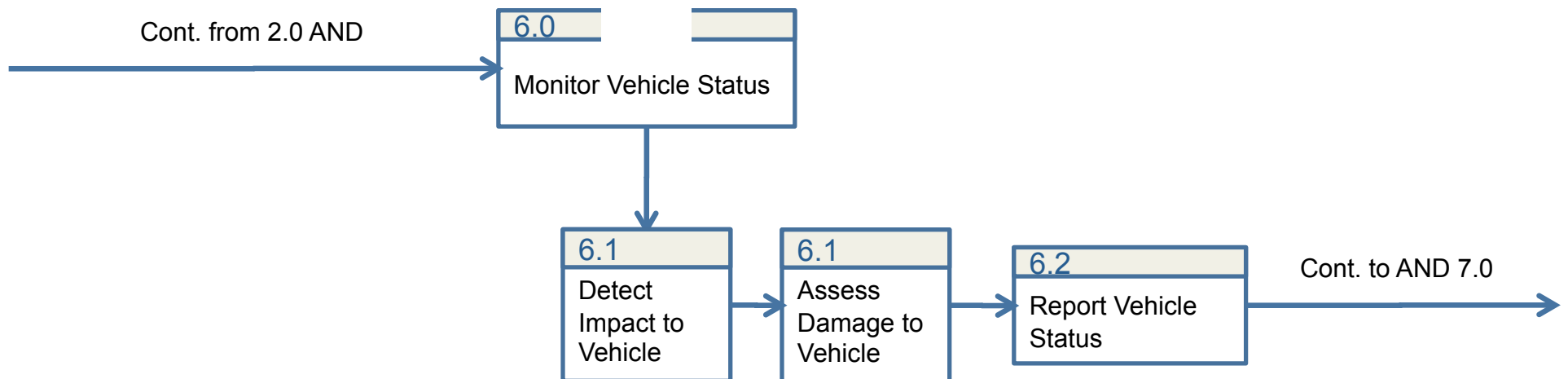
Functional Flow Diagram, 7.0 details

Cont. from 3.0, 4.0, 5.0, 6.0 AND

7.0

Return to Base

7.1

Find Base Location

7.2

Drive to Base Location

Cont. to 8.0
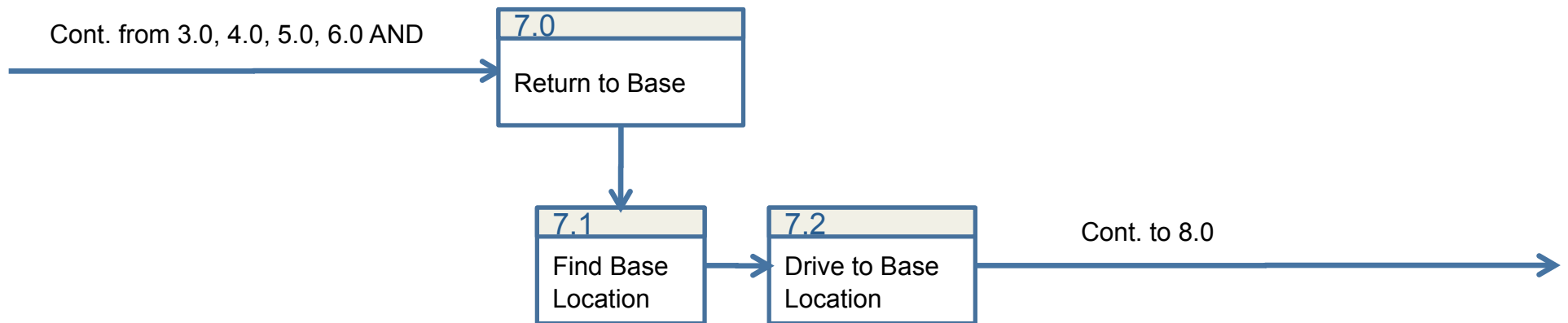
Functional Flow Diagram, 8.0 details

Cont. from 7.2

8.0	
Complete Mission	

8.1
Turn off Engines

8.2
Unload Operator

8.3
Perform Maintenance to Vehicle