New ODM aircraft require new fleet management functions.

Vehicle Safety Functions

Maintain Safe Separation
- From other Participating Vehicles
- From Fixed and Dynamic Hazards

Maintain Vehicle Control
- Nominal and Contingency Limits
- Physical and Cyber Security

Maintain Sufficient Trip Conditions
- Rich Quality
- Energy
- Vehicle Performance
- Navigation Accuracy

Vehicle Control
- With pilot-in-command (PIC) if rerouting

Vehicle Network
- Verify PIC, monitor

Energy Management
- Compute flight energy

Navigation
- Monitor A/C’s on approach

Ride Quality
- Monitor network, supervisory control if A/C fails, redirect resources w/ AIDA

Performance Management
- Monitor A/C’s status, maintain command authority

Physical and Cyber Security
- Compute feasibility to land, ensure sufficient between re-charges

Energy Management
- Monitor PIC, maintain alertness

Navigation
- Verify navigation w/ PIC

Ride Quality
- Maintain A/C’s status, maintain command authority

Performance Management
- Contact PIC if A/C fails, redirect resources w/ AIDA

Vehicle Control
- Monitor PIC, monitor

Energy Management
- Compute flight energy

Navigation
- Verify navigation w/ PIC

Ride Quality
- Monitor PIC, maintain alertness

Performance Management
- Contact PIC if A/C fails, redirect resources w/ AIDA

Vehicle Control
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Energy Management
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