



## Generic Class Methods

- Begin: allocate memory and resources (if needed, such as opening communication with a device)
- UpdateConfig: pass a JSON string to update the class configuration
- SerializeConfig: get a pointer to the serialized configuration
- DeserializeConfig: pass a reference to the serialized configuration
- Run: performs the primary function of the class?? Not really sure how to handle this one...
- GetData: get a pointer to the class data structure
- SerializeData: get a pointer to the serialized data
- DeserializeData: pass a reference to serialized data
- End: de-allocate memory and resources

## Aircraft States

- Body fixed rotational rates, linear accelerations
- Inertial position, attitude, rotational rate, linear acceleration, linear velocity
- Wind
- Heading angle, flight path angle and track
- Airspeed (IAS and TAS), angle of attack, angle of sideslip
- Altitude (pressure, MSL, AGL, density)
- Aircraft moments, effector effectiveness