EXEMPLARY CLAIMS:

What is claimed is:

1. A method operational mode determination comprising:
receivingdetecting, by a processing unit, the presence of a component information set of at least one detachably attached external component, wherein the at least one detachably attached external
component is at least one of: a lifting surface extension, a tail boom, and a rotor;
receiving, by the processing unit, a component information set from each of the detected at least one detachably attached external components; and
determining a mode of operation, by the processing unit having a current mode of operation setting, based on the received at least one component information set and at least one of: an initial mode of operation setting and the current mode of operation setting.
2. The method of claim 1 further comprising:
determining whether all of the one or more received component information sets match a configuration requirement;
transitioning to a flight-ready status if the determination is a conjunctive match; and
transitioning to a reset status if the determination is not a conjunctive match.
3. A computing device comprising:
a processing unit and addressable member; the processing unit configured to:
detect the presence of at least one detachably attached external component, wherein the at least one detachably attached external component is at least one of: a lifting surface extension, a tail boom, and a rotor;
receive a component information set from each of the detected at least one detachably attached external components;
reference the received component information set against a component information database; and
determine a mode of operation, by a device having a current mode of operation setting, based on the received component information set and at least one of: an initial mode of operation setting and the current mode of operation setting.
4. The computing device of claim 3 wherein the processing unit is further configured to:
determine whether all of the one or more received component information sets match a configuration requirement;
transition to a flight-ready status if the determination is a conjunctive match; and transition to a reset status if the determination is not a conjunctive match.
5. A system comprising:
a processing unit and addressable member; the processing unit configured to:
detect, by at least one sensor, the presence of at least one detachably attached system component, wherein the at least one detachably attached system component is at least one of: a lifting surface extension, a tail boom, and a rotor;
receive a component information set from each of the detected at least one detachably attached system components, wherein the component information set includes database information; and
determine a mode of operation, by the processing unit having a current mode of operation setting, based on the received component information set and at least one

~~of: an initial mode of operation setting and the current mode of operation setting; and at least one sensor configured to detect the at least one system component~~.

6. The system of claim 5 wherein the processing unit is further configured to:

release, via an actuated element, at least one detected detachably attached ~~comprising a~~ system component ~~associated with the component information set~~.

7. The system of claim 5 further comprising a data store comprised of one or more parameters associated with the component information set.

8. An air vehicle comprising:

a processing unit and addressable member; the processing unit configured to:

detect, by a means for detecting at least one sensor, the presence of at least one detachably attached system component, wherein the at least one detachably attached system component is at least one of: a lifting surface extension, a tail boom, and a rotor;

receive a component information set from each of the detected at least one detachably attached system components; and

determine a mode of operation~~, by the processing unit having a current mode of operation setting,~~ based on the received at least one component information set ~~and at least one of: an initial mode of operation setting and the current mode of operation setting; and~~

~~means for detecting at least one sensor configured to detect the at least one system component~~.

9. The air vehicle of claim 8 wherein the ~~at least one system component~~ lifting surface extension is a portion of a wing

10. The air vehicle of claim 8 wherein the ~~at lest~~ processing unit is further configured to:

release, via an actuated element, at least one detected detachably attached system component ~~is a tail boom~~.

11. A processor readable non-transient medium having processor executable instructions thereon, which when executed by a processor cause the processor to:

detect the presence of at least one detachably attached external component, wherein the at least one detachably attached external component is at least one of: a lifting surface extension, a tail boom, and a rotor;

receive a component information set from each of the detected at least one detachably attached external components, wherein the component information set includes information associated with a database;

determine a mode of operation~~, by the processor having a current mode of operation setting,~~ based on the received at least one component information set ~~and at least one of: an initial mode of operation setting and the current mode of operation setting~~;

determine whether all of the one or more received component information sets match a configuration requirement;

transition to a flight-ready status if the determination is a conjunctive match; and

transition to a reset status if the determination is not a conjunctive match.