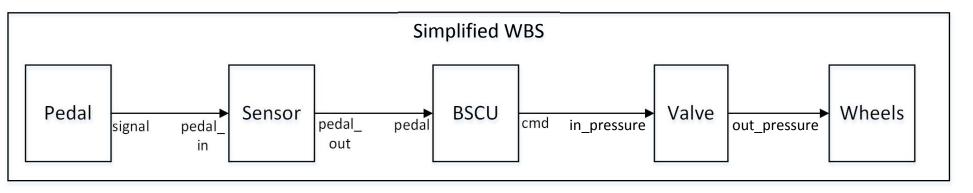
## **EMV2 Approach**

```
pedal : in propagation
                                                    in pressure : in
                                                                                   Error
pedal out : out
                           {NoService};
                                                    propagation {Novalue};
                                                                                Propagation
propagation{NoService
                           cmd : out
                                                    out pressure : out
                                                                                 through
};
                           propagation{NoValue};
                                                    propagation{NoValue};
                                                                                Component
                           error path
                                                   error path
error source
                                                                                Error Flow
                           pedal{NoService}
                                                    in_pressure{NoValue} ->
signal{NoService};
                           -> cmd{NoValue};
                                                   out pressure{NoValue};
```



```
signal.val pedal_out.val = (pedal.val > 0.0) out_pressure.val = Nominal Behavior
>= 0.0; pedal_in.val; => (cmd.val > 0.0) in_pressure.val; in AGREE
```

```
"sensor output stuck at zero"
   pedal_out = if
   fault_trigger then
   0.0 else pedal in;
```

Faulty Behavior in Safety Annex

```
"pedal pressed implies valve pressure"
  (Pedal.signal.val > 0.0) =>
  (Valve.out pressure.val > 0.0)
```

System safety property in AGREE