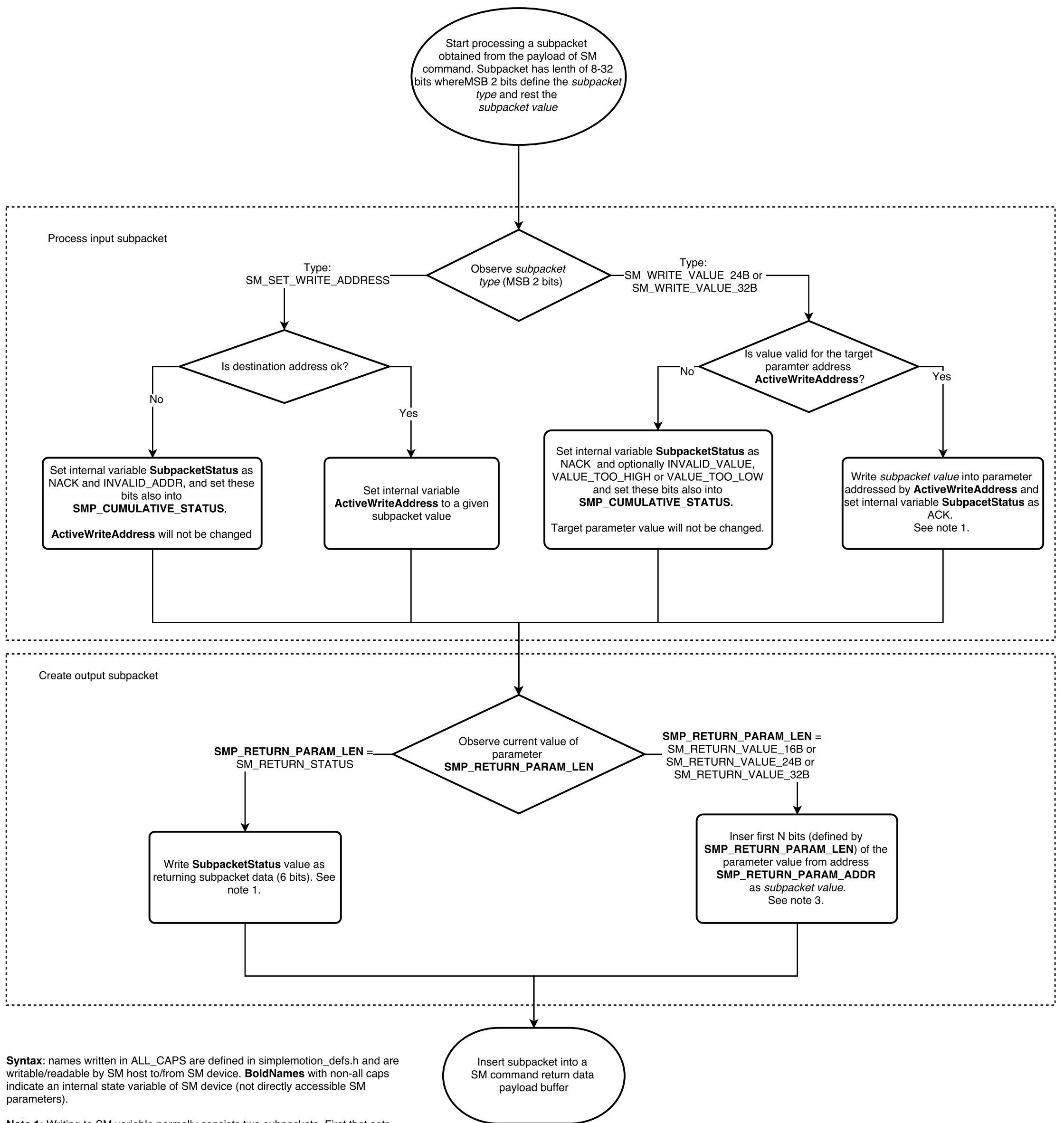


Processing of subpackets in a SimpleMotion V2 slave device

For introduction to SimpleMotion protocol and subpackets, see <https://github.com/GraniteDevices/SimpleMotionV2/blob/master/doc/SMV2Protocol.png>.



Syntax: names written in ALL_CAPS are defined in `simplemotion_defs.h` and are writable/readable by SM host to/from SM device. **BoldNames** with non-all caps indicate an internal state variable of SM device (not directly accessible SM parameters).

Note 1: Writing to SM variable normally consists two subpackets. First that sets **ActiveWriteAddress** and second that writes the value to that address.

Optimization trick: any number of consequent writes to the same address can be done after setting **ActiveWriteAddress**. I.e. set **ActiveWriteAddress**=553 (`SMP_ABSOLUTE_SETPOINT`) and after that just write setpoints as needed.

Note 2: Unless `SMP_RETURN_PARAM_LEN` is set to `SM_RETURN_STATUS`, then the immediate value of `SubpacketStatus` is lost. However it's active bits will be always written into exposed internal vaiable **SMP_CUMULATIVE_STATUS** that may be read at any moment to check errors after several subpacket operations.

Note 3: in order to read any variable from SM device, host must first write an address value into `SMP_RETURN_PARAM_ADDR` and `SMP_RETURN_PARAM_LEN`.