

Chapter 1

sdfadsfasfddsF Firmware

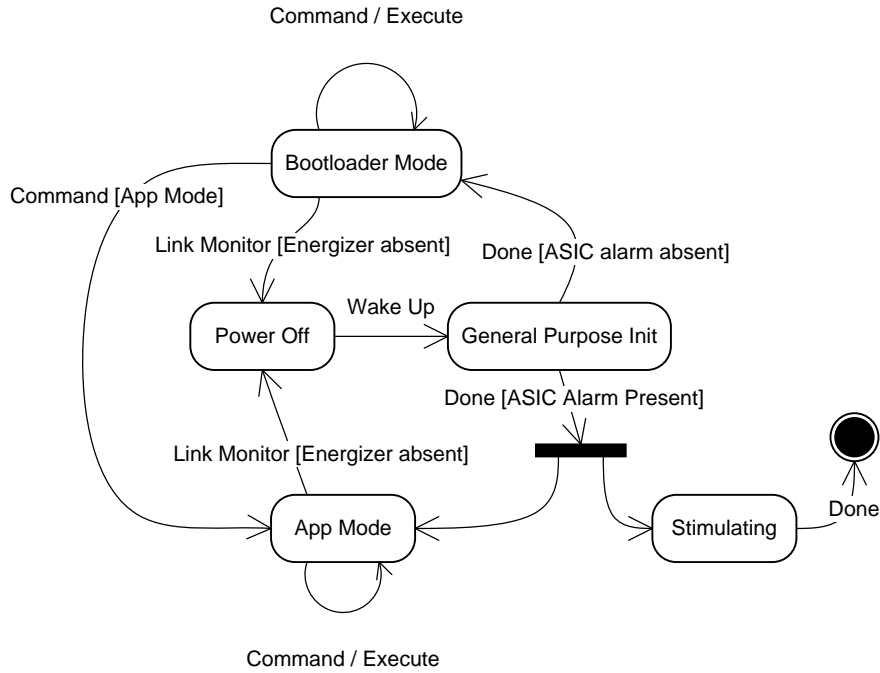
1.1 Overview

For the most part, the function of the sfajlkjlsjdsf can be broken down into subfunctions or modules, and the overall function of those modules are described separately under the section for that module. However, there are some areas of description which don't fall neatly into a module. They are described below.

1.2 Program Modes

The system has two overall operating modes - Bootloader mode and Updatable App mode. Fundamentally and functionally, Bootloader Mode can be seen as a subset of Updatable app mode, in that virtually all the functionality available in Bootloader mode is also available in updateable app mode. Bootloader mode exists for two reasons:

1. Since it is not itself field-updateable, we want it to be as simple as possible. So we want to move any functions which can be field updateable into a field updateable app.
2. We anticipate that the adsfadsf program data (and particularly the fdafadsf program data which the sdfasdfsdf interprets to provide afdsfadsf to the adsfadsf when the adsfadsf is not connected) will change/evolve over time.



Unfortunately, the set of functions which the Bootloader must support in order to be able to download the updateable program and start it constitutes a sizeable percentage of the total functionality of the firmware. Nonetheless, for reason number 2 above, this architecture is justified. In particular, no asdfas stimulation is possible in bootloader mode as there is no code to perform it.

The Bootloader always get control on power up, and is responsible for the bulk of the hardware and low level software initialization tasks. After initialization is complete, the firmware checks to see if a wake up alarm from the ASIC is present. If so, updateable app mode is entered. If not, the bootloader awaits commands from the asdfasf. These commands primarily either read or write EEPROM, so that the updateable app can be loaded. Another important commmand directs the Bootloader to transfer control to the updateable app.