To effectively provide security to packets using TI/Chipcon CC2420 radios, we provided support in TinyOS 2.x to enable the CC2420 radio's in-line security features. We use the CC2420 security features for the data transmitted in the MEDiSN project to protect packets that contain a patient's physiological data. The code is included in the official distribution of TinyOS 2.1.1. Additional information on its usage can be found in the official TinyOS tutorial webpage.