**Tailor Program**

**Project Information**

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| **Project Name** | Embedded Host for Kinetis Bootloader | |
| **Project Leader** | Neo Xiong | |
| **Team Member** | N/A | |
| **Project Description** | **Project Description:**  Kinetis bootloader is a common bootloader for all Kinetis MCUs. It supports various communication port include UART, USB, SPI or I2C. Official release offered command-line and GUI tools on PC as upgrader to communicate with bootloader via UART or USB. Since PC doesn’t have native I2C and SPI port, R&D used a FRDM-KL25Z as bridge to convert command sent from PC to device. This tool is called buspul and is not currently available to customer, and, it’s also not a good start point for customer to develop own I2C/SPI master in an embedded system. The purpose of this project is to provide a portable example of embedded host with I2C, SPI or UART interface, to ease customer developing their own upgrader on different platform.  **Hardware:**  1 x FRDM-K64F as embedded host.  1 x FRDM-K64F as slave.  **Software:**  Based on KSDK\_1.0.0\_GA release, use GIT as version control tool. | |
| **Action Items and Planned Schedule** | 1. A basic demo to allow binary programming through I2C. Due Date: 9/5/2014 2. Feature enhancement to handle re-transmission and support more command. Due Date: 9/19/2014: 3. Code Refactor to support SPI, UART and portable. Due Date: 9/30/2014 4. Unit testing and debug, 10/17/2014 5. Ready for internal release. Due Date: 10/30/2014 6. Ready for DFAE Training. Due Date: Q4, 2014. 7. Application Note. Due Date: Q4, 2014 | |
| **Status Update and History Record** | Date: 9/15/2014 | 1. Finish a working demo to program binary from SD card via I2C  2. Support re-transmission but not tested yet.  3. Support UART and SPI but not tested yet. |
| Date: MM/DD/YYYY | 1.  2.  3. |
| **Attachment Document** |  | |