

## Multi-Card Interface Design

### 1. Mechanism Overview

DMECV.exe has two operating modes:

(1) IndependentApp Mode (launched without command-line arguments)

- Startup Scripts: Executes main first, then mainInit
- Timer Script: timer
- Configuration Files:
  - setting-bak0/setting-bak1/setting-env/setting-motion/setting-prj/setting-help

(2) ClientApp Mode (launched with command-line arguments)

- Command-Line Format:

DMECV.exe <Board IP> <Board Port> <Startup Script>

- Execution Logic:
- Executes the script specified in the command-line (equivalent to main in IndependentApp mode)

- Then executes mainInit-slave (equivalent to mainInit in IndependentApp mode)
- Timer script used is timer-slave
- Configuration Files:
  - Appends -<IP> suffix to the standard config file names. For example:

setting-bak0-192.168.1.100

- If the specified file is not found, it will fall back to the corresponding file in IndependentApp mode.
- Conclusion: No special handling is needed for configuration files when designing multi-card interfaces.

---

### 2. Development Steps

#### 2.1 Rename Standard Interface Scripts for Slave Cards

- main → slavecard-main (this will be passed in via command-line during startup)
- mainInit → mainInit-slave
- timer → timer-slave

After renaming, the slave card interface will follow the same mechanism as the standard interface.

#### 2.2 Create New Scripts for Main Card

- Recreate the following:
- main: This script should call the main UI framework (I will provide the related files)
- mainInit, timer: If no inter-card communication is needed, the timer script can be left empty.

