

System level Integration of PSF

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# Introduction

## Terms and abbreviations

## References

# Software licence Agreement

# Hardware Integration

# Software integration

## Block Diagram - TBD

## Data Types

## API to be implemented by the user application

List of APIs with Hyperlink in a table format

### UPD350 Hardware Interface Configurations

Hooks required for SPI or I2C Initialization, Read and Write

### PD Timer Configuration

Hooks and Macros required for HW Timer Initialization and Configuration

### UPD350 Alert Control

Hooks to initialize the SOC PIOs used for UPD350 Alert control

### UPD350 Reset Control

Hooks to Initialize the SOC PIO that Controls UPD350 Reset and to drive UPD350 Reset

### SOC Interrupt Enable/Disable

Hooks to enable/Disable Global interrupts in SOC

### Memory Compare and Copy

Hooks to copy and compare operations

### Structure Packing

Macros for structure packing

### Port Power Control

Hooks to overcome default GPIO Port power control (PortPower Init, VBUS Drive, VBUS Discharge, Sink Circuitry Control)

### Boot time configuration

Hooks to modify configurable parameters at boot time

### Hooks for Policy Manager

Hooks to run before and after Policy Manager Execution

### Debug Hooks

Driver for printing debug messages

### PD Firmware Upgrade

Hooks required for PDFU functionality

## APIs to be called by the user application

Hooks to be called by the SOC layer

* + MCHPPSF\_Init()
  + MCHPPSF\_Run()
  + MCHPPSF\_UPDAlertHandler()
  + MCHPPSF\_PDTimerHandler()

Note: The frequency at which the APIs to be called shall be captured

## Notification callback from

Callback API that provide per port event like Detach, Attach, Powerfaults, UPD350Idle.

# Appendix

## Data Types