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Screen Lock Provider

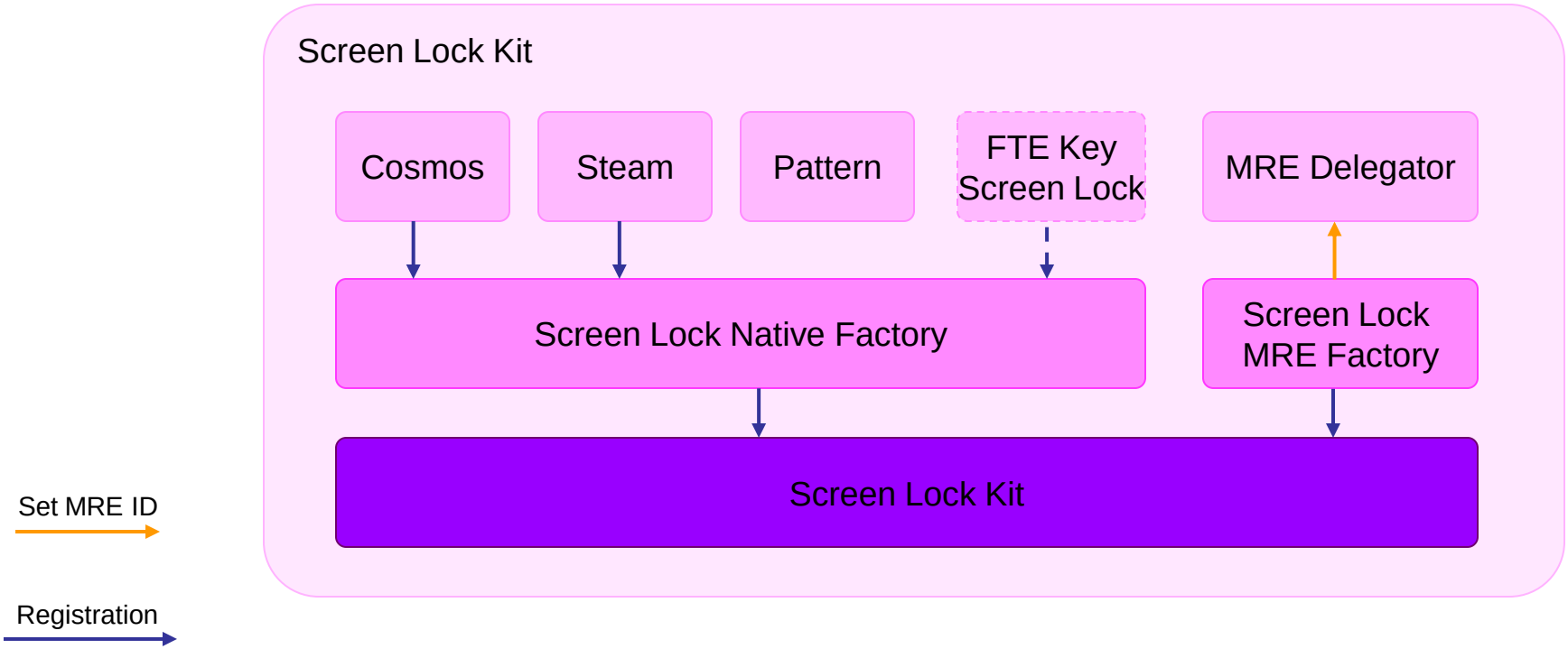


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Outline

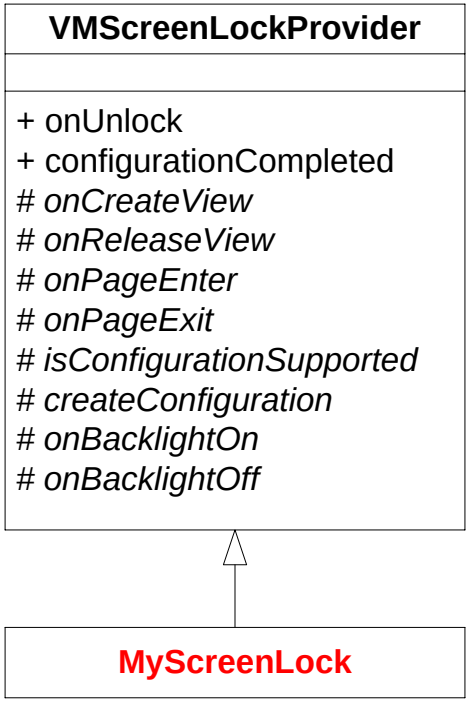
- Architecture
- Class Diagram
- Basic Class
- Hello World Explanation
- Demo App Explanation

Architecture: Screen Lock Kit



Screen Lock Provider Class Diagram

.\src\app\screen_lock**vm_screen_lock_provider.h**



Screen Lock Provider

- The base class of MRE screen lock is ***VMScreenLockProvider***
- Virtual Function:
  - **virtual void onCreateView()**
    - Notify app to create screen lock's view
    - When backlight is off, *onCreateView* is called
    - When user presses power key to lock the phone, *onCreateView* is called
  - **virtual void onReleaseView()**
    - Notify app to release screen lock's view
    - When the screen lock is closed, *onReleaseView* is called
    - *To avoid from memory leak, we assert if any object isn't released after onReleaseView*

Screen Lock Provider

- **virtual void onPageEnter()**
  - Notify app that screen lock's page is entered
  - E.g. Screen lock can resume the animation on the screen lock
- **virtual void onPageExit()**
  - Notify app that screen lock's page is exited
  - E.g. Screen lock can suspend the animation on the screen lock
- **virtual VMBOOL isConfigurationSupported() const**
  - Get if configuration is supported
- **virtual void createConfiguration()**
  - Notify app to create screen lock's configuration

Screen Lock Provider

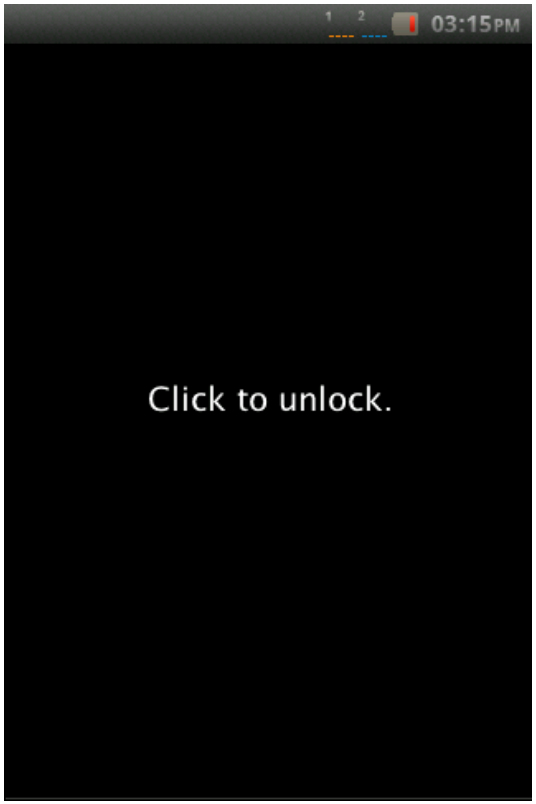
- **virtual void onBacklightOn()**
  - Notify app that backlight is turned on
  - E.g. Screen Lock can display its initialized lock screen
- **virtual void onBacklightOff()**
  - Notify app that backlight is turned off
  - E.g. Screen Lock can reset its state

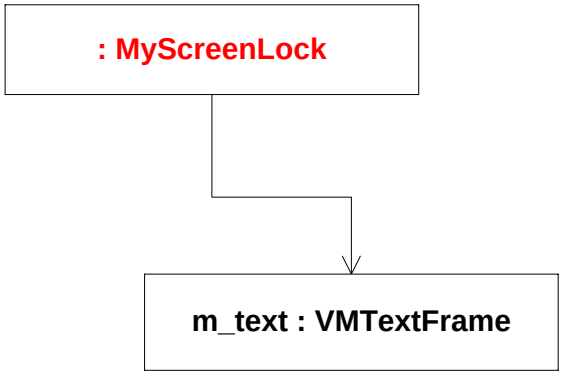
Screen Lock Provider

- Helper Function:
  - **void onUnlock(IVpiScreenLockProvider *provider)**
    - Call this function to notify base class to close screen lock app
    - When user wants to unlock the phone
  - **void onConfigurationCompleted(**
    IVpiScreenLockProvider *provider ,
    VMBOOL isSuccess);
    - Call this function when configuration is completed or aborted

Screen Lock Provider – Hello World

- Hello World Explanation





Screen Lock Provider – Demo App

- Demo App Explanation

<Idle State>



<Operation State>

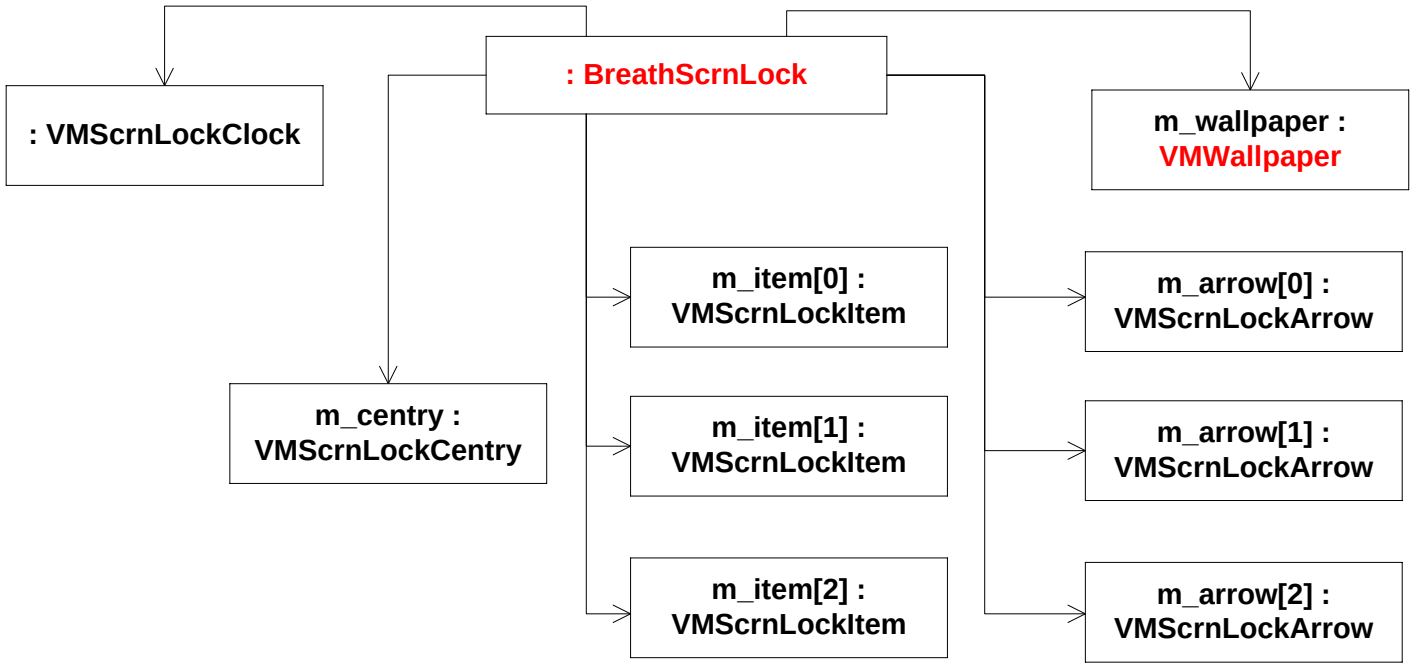


<Unlock>



Screen Lock Provider – Demo App

- Demo App Explanation



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