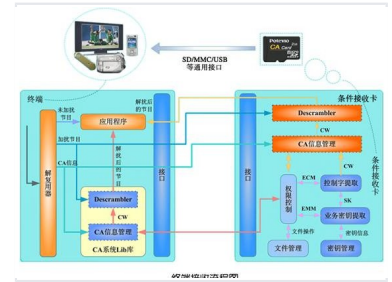


# Conditional Access System Diagram

This diagram illustrates the flow of data and processes within conditional access (CA) systems. It depicts the interaction between a terminal device, a conditional access card, and various modules responsible for descrambling content and managing access rights.



## System Overview

### Conditional Access (CA) Workflow

This system diagram provides a comprehensive architectural overview of conditional access processes within digital media environments. It details the sophisticated interaction between terminal devices, conditional access cards, and dedicated hardware modules. By managing entitlements through ECM and EMM messaging, the system ensures secure decryption and authorized content delivery.

## Core Components

### Key Modules

Demultiplexer, Descrambler, CA Information Management, Conditional Access Card, Control Word Extractor

## Technical Interface

### Supported Interfaces

- SD
- MMC
- USB

## Security Protocol

### Security Messaging

- ECM (Entitlement Control Messages)
- EMM (Entitlement Management Messages)
- CW (Control Word) Extraction
- SK (Service Key) Extraction

## System Integration

### Library and Management

Component	Function
CA System Lib	Core processing library
File Management	Handling key and data files
Key Management	Secure operation of business keys