DEVC API 函数说明

1. u8 FDevcPs_init(FDevcPs_T *dev, u32 addr)

描述	* This function initializes devc device	
参数	* @param dev is devc handle.	
	* @param addr is the base address of CSU.	
返回值	* @return	
	* - 0 if successful	
	* - 1 not support	

2. u8 FDevcPs_fabricInit(FDevcPs_T *dev, u32 TransferType)

描述	* This function initializes Device Configuration module, configure pcap interface work parameters	
参数	* @param TransferType.	
	* - FMSH_PCAP_READBACK	
	* - FMSH_NON_SECURE_PCAP_WRITE	
	* - FMSH_PCAP_LOOPBACK	
返回值	* @return	
	* - 0 if successful	
	* - 1 if unsuccessful	

3. u8 FDevcPs_unLockCSU(FDevcPs_T *dev)

描述	* This function unlocks CSU module	
参数	* @param dev is devc handle.	
返回值	* @return	
	* - 0 if successful	
	* - 1 if unsuccessful	

4. u8 FDevcPs_lockCSU(FDevcPs_T *dev)

描述	* This function locks CSU module	
参数	* @param dev is devc handle.	
返回值	* @return	
	* - 0 if successful	
	* - 1 if unsuccessful	

5. u8 FDevcPs_KUPKEY(FDevcPs_T *dev, u32 *p, u32 len)

描述	* This function configures KUPKEY	
	* this key value maybe changed by different bitstream	
参数	* @param dev is devc handle.	
	* @param p is pointer to KEY buffer.	
	* @param len is length of KEY, this should be fix as 8.	
返回值	* @return	
	* - 0 if successful	
	* - 1 if unsuccessful	

6. u8 FDevcPs_DEVKEY(FDevcPs_T *dev, u32 *p, u32 len)

描述	* This function configures DEVKEY	
	* this key value maybe changed by different bitstream	
参数	* @param dev is devc handle.	
	* @param p is pointer to KEY buffer.	
	* @param len is length of KEY, this should be fix as 8.	
返回值	* @return	
	* - 0 if successful	
	* - 1 if unsuccessful	

7. u8 FDevcPs_IV(FDevcPs_T *dev, u32 *p, u32 len)

描述	* This function configures fixed IV	
	* this IV value maybe changed by different bitstream	
参数	* @param dev is devc handle.	
	* @param p is pointer to IV buffer.	
	* @param len is length of IV, this should be fix as 4.	
返回值	* @return	
	* - 0 if successful	
	* - 1 if unsuccessful	

8. u8 FDevcPs_getConfigdata(FDevcPs_T *dev, u32 *DestinationDataPtr, u32 DestinationLength, u32 addr, u32 ConfigReg)

描述	* This function returns the value of the specified configuration register or bitstream.	
参数	@param dev is devc handle.	
	@param DestinationDataPtr contains a pointer to the destination memory	

	*	where the data is to be transferred to.
	* @param	DestinationLength is the number of words (32 bit) to be transferred
	*	for the Destination transfer.
	* @param	addr is the value of the specified configuration
	*	register.
	* @param	ConfigReg is a constant which represents the configuration
	*	register value to be returned.
	*	if(ConfigReg == 0xaa55) radback bitstream
返回值	* @return	
	* -0	if successful
	* -1	if unsuccessful

9. u8 FDevcPs_pcapLoadPartition(FDevcPs_T *dev, u32 *SourceDataPtr, u32 *DestinationDataPtr, u32 SourceLength, u32 DestinationLength, u32 SecureTransfer)

描述	* This function starts the DMA transfer. This function only starts the		
	* operation and returns before the operation may be completed.		
	* If the interrupt is enabled, an interrupt will be generated when the		
	* operation is completed, otherwise it is necessary to poll the Status register		
	* to determine when it is completed. It is the responsibility of the caller to		
	* determine when the operation is completed by handling the generated interrupt		
	* or polling the Status Register.		
参数	* @param dev is devc handle.		
	* @param SourceDataPtr contains a pointer to the source memory where the data		
	* is to be transferred from.		
	* @param SourceLength is the number of words (32 bit) to be transferred		

	* for the source transfer.	
	* @param DestinationDataPtr contains a pointer to the destination memory	
	* where the data is to be transferred to.	
	* @param DestinationLength is the number of words (32 bit) to be transferred	
	* for the Destination transfer.	
	* @param SecureTransfer	
	* FMSH_NON_SECURE_PCAP_WRITE 0	
	* FMSH_SECURE_PCAP_WRITE 1	
	* FMSH_PCAP_READBACK 2	
返回值	* @return	
	* - 0 if successful	
	* - 1 if unsuccessful	

10. u8 FDevcPs_keyRollingDownload(FDevcPs_T *dev, u8 alg_flag, u8 opkey_flag, u32 *srcPtr, u32 bitlen)

描述	* This function is used to secure download different BITSTREAM	
参数	* @param alg_flag: 0 AES 1 SM4	
	* @param opkey_flag: 0 no opkey 1 use opkey	
	* @param bitlen: PL BITSTREAM LENGTH	
返回值	* @return 0 if successful, otherwise 1.	

11. u8 FDevcPs_pollFpgaDone(FDevcPs_T *dev, u32 maxcount)

描述	* This function polls FPGA done	
参数	* @param dev is devc handle.	
	* @param maxcount is the max poll times	
返回值	* @return	

*	- 0 if successful
*	- 1 if unsuccessful