This tool use for below usage:

**1, For pure retailer CSTM, do not check any signature for bootloader.**

Release the bl\_tool and Pure\_Retailer.cmd for CSTM, CSTM need modify below items (Blue words) according to their product. Padding.key is only used to correct the flash format.

**[Pure\_Retailer.cmd]:**

*[PARAMETER]*

*chip\_name=3921*

*#aux\_code need set before bl\_name*

*aux\_code= memory\_init.abs*

*aux\_code\_len=0x3700*

*loader\_entry=0x80100000*

*bl\_name= uboot.bin*

*output= output\_uboot.abs*

*[NAND CONFIG]*

*block\_perchip=1000*

*pages\_perblock=0x40*

*bytes\_perpage=0x800*

*eccsec\_size=0x400*

*eccredu\_size=0x20*

*rowaddr\_cycle=0x3*

*ecctype=0x0*

*read\_timing=0x22*

*write\_timing=0x22*

*eccsec\_perpage=0x2*

*[CMD]*

*merge*

**2, For retailer CSTM with check bootloader signature.**

**R**elease the bl\_tool and example key for CSTM, CSTM need modify below blue items according to their product. How to generate the keys please refer to the file ‘ALi\_Example\_Key/How\_to\_generate\_key.txt ’.

**[Retailer\_Sign.cmd]**

[PARAMETER]

*chip\_name=3921*

*#RSASSA\_PKCS or RSASSA\_PSS*

*sig\_format=RSASSA\_PKCS*

*#public key level is 1 or 2*

*pub\_key\_level=2*

*#CSTM need modify it*

*market\_id=12345678*

*#Default address is 0xa0000200*

*loader\_entry=0x80100000*

*# external public key, X509 with DER format*

*ext\_pub\_key=public.key*

*#aux\_code need set before bl\_name*

*aux\_code=mem\_init\_file.abs*

*aux\_code\_len=0x3700*

*# Root Key pair, ALI or DER format*

*root\_key\_format=DER*

*rsa\_key=root\_key\_pair.der*

*# External Pubic Key, ALI or DER format*

*ext\_key\_format=DER*

*ext\_rsa\_key=ext\_key\_pair.der*

*##input bl name*

*bl\_name= input\_bl.abs*

*##output bl name*

*output= output\_bl.abs*

*[NAND CONFIG]*

*block\_perchip=1000*

*pages\_perblock=0x40*

*bytes\_perpage=0x800*

*eccsec\_size=0x400*

*eccredu\_size=0x20*

*rowaddr\_cycle=0x3*

*ecctype=0x0*

*read\_timing=0x22*

*write\_timing=0x22*

*eccsec\_perpage=0x2*

*[CMD]*

*ext\_key\_sign*

*aux\_sign*

*bl\_sign*

*merge*

**3, For Advance security CSTM**

Release the BL tool and Example.cmd to CSTM, and need check with ALi and CA vendor how to modify this file