

Basic Command Interpreter

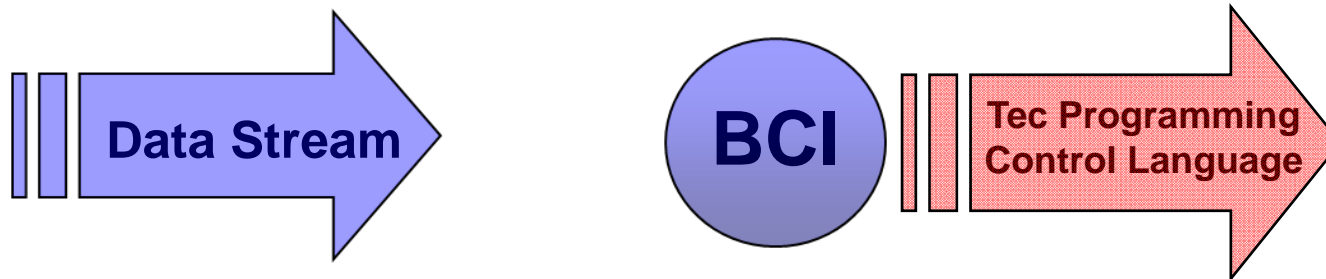
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Updated 12th JULY 2006

Overview

- The Basic Command Interpreter (BCI) is a powerful printer feature which allows printer firmware to manipulate incoming data to generate label formats.
- In essence it enables TOSHIBA printers to be compatible with non-TOSHIBA TEC data streams
- BCI uses BASIC programming language and operates within the TOSHIBA Printer.

How does it work?



Data transmitted to the Printer through any of its comms ports.

Could be ZPL, DPL, PCL5e, Line Printer, or any other legacy printer language

BCI receives Data and translates it



TEC Printer Control Language sent to Printer engine for label printing.

Produces same output as original printer

Example

Data to be sent to printer

Text Document

Example

BCI Program

```
*MAIN_LOOP
REM
    ON ERROR GOTO *ERROR_PROC
    OPEN "COM1:9600,N,8,1" FOR RANDOM AS #1
    OPEN "COM2:9600,N,8,1" FOR RANDOM AS #2
    DIM SDATA1$(0), SDATA2$(0)
*MAIN
    DISPMSGI$ = "BCI PROGRAM"
    GOSUB *DISP1
    DISPMSGII$ = "Waiting for Data"
    GOSUB *DISP2
    SDATA1$(0) = ""
    WHILE SDATA1$(0) = ""
        CNT% = GETCMD( STARTCODE$ , STARTCODE2$ , ENDCODE$ )
    WEND
    CMDBUF$ = SDATA1$(0)
    IF CMDBUF$ = "" GOTO *MAIN
    GOSUB *CMD_CHECK
*MAIN_END
    GOTO *MAIN
```





Example

Data Sent to Printer Engine

```
{D1554,1016,1524|}  
{C|}  
{U2;0130|}  
{D1554,1016,1524|}  
{AX;+000,+000,+00|}  
{AY;+00,0|}  
{PV00;0932,0236,0081,0048,B,11,B|}  
{RV00;12345678|}  
{PV01;0675,0231,0081,0048,B,11,B|}  
{RV01;200|}  
{PV02;0421,0228,0081,0048,B,11,B|}  
{RV02;R1025|}  
{PV03;0172,0231,0081,0048,B,11,B,+0000000001,Z00|}  
{RV03;100006|}  
{XB00;0904,0205,3,1,03,03,09,09,03,1,0127|}  
{RB00;P12345678|}  
{XB01;0650,0205,3,1,03,03,09,09,03,1,0127|}  
{RB01;Q200|}  
{XB02;0391,0205,3,1,03,03,09,09,03,1,0127|}  
{RB02;VR1025|}
```

Example

Label Produced

Part (P)	1 2 3 4 5 6 7 8 	
Quantity (Q)	2 0 0 	Front Disk Brakes
Supplier (V)	R 1 0 2 5 	
Serial (S)	1 0 0 0 0 8 	Serial (S) 31-03-98 Rev # 10236

Advantages of using the BCI

- TOSHIBA Printers can be made to work with non-TEC Data Streams
 - No changes to existing software
 - Customers can consider changing printers without worrying about re-coding or managing multiple software environments. Unplug old printer, plug in TEC
 - Costs and Timescales are kept to minimum
 - Low risk migration
 - Printer Populations can be replaced gradually.
 - Phased implementation of TOSHIBA printers can be achieved, because TOSHIBA printers become plug & play compatible with existing printers

Advantages of using the BCI

- TOSHIBA Printers can be made to work with non-TEC Data Streams
 - Useful Tool for Customer Lock-in
 - Enables more consultative approach
 - Can form part of long-term replacement strategy
 - Protected from box-shifters
 - Value Added Consultancy Business
 - Chargeable Development Work
 - Can simplify complex solutions
 - Self-contained solution

BCI Available on

- The BCI is available on
 - B-852 Advanced
 - B-SX8
 - B-SX6
 - B-SX5
 - B-SX4
 - B-SA4T

BCI

- Aimed at larger populations of installed printers
 - Because there is an element of coding required at the outset, not appropriate for small opportunities.
- Toshiba TEC can help, with advice, training or BCI programming
- Aim to get Channel Partners, trained up

BCI Examples

- Example, UK Retailer
 - Population of 10 year old Datamax printers
 - Used B-SX5 with BCI,
 - Couldn't consider re-coding at outset, but needed solution
 - Now coding natively for TEC
- Example UK Retailer
 - Population of Meto AS40 Printers
 - AS40 Was End of Life and No Longer Supported
 - Used B-SX5 with BCI

BCI

- What Next?
 - Remember all those large populations of Datamax, Zebra, Sato, especially End-of life Models
 - Remember Clients who currently uses Laser, Dot Matrix, Inkjet
 - Get TOSHIBA Involved Early