This is a quick walkthrough to use the ZeitControl IDE for building the HOTPC.BAS image from source. An Image file is included in the ootp distribution. This procedure is only necessary to modify the source code.

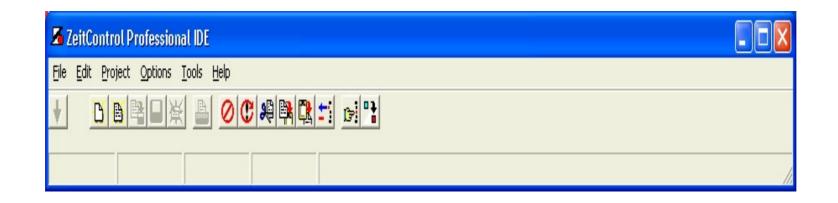
The IDE compiles HOTPC.BAS to compact PCODE and stores the result in HOTPC.IMG which is then downloaded to a ZC3.9 SmartCard using the IDE or Unix/Linux bcload utility.

The IDE provides an editor, source level debugger, Smart Card and Terminal emulation, and numerous examples.

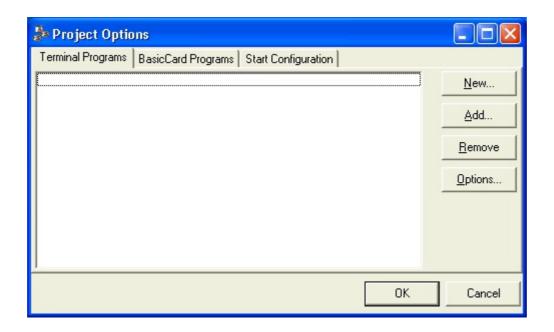
The ZeitControl BasicCard IDE is available as a free download from http://www.basiccard.com

Create a folder ootp-1.03 with HOTPC.BAS and HOTP.DEF from ootp-release-1.03.tar.gz

Start ZeitControl IDE



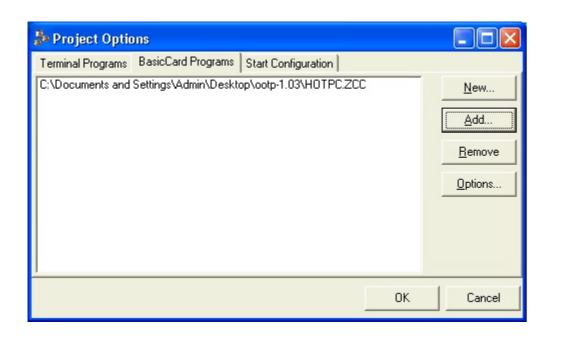
Select Project/Options. Click on BasicCard Programs



Click Add. Add HOTPC.BAS to the project as a BasicCard program. The card type is ZC3.9. Select the Image file option. Save as HOTPC.ZCC

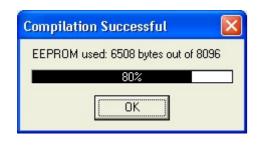
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Look in: 📴	ootp-1.03	- 🗲 🔁	-111 1
HOTPC			
File <u>n</u> ame:	НОТРС		<u>O</u> pen
Files of type:	Basic File (*.bas)	•	Cancel

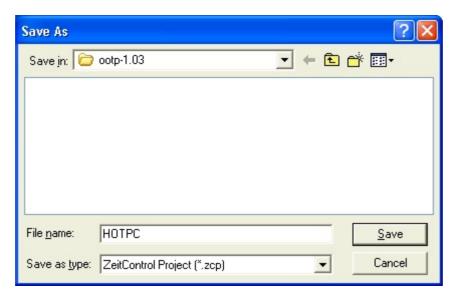
BasicCard Program Options	X
Card type ZC3.4 COmpact ZC3.42 CEnhanced ZC3.43 CProfessional ZC3.5 CMultiApplication ZC3.7 Card _state: Test	default
Source file: C:\Documents and Settings\Admin\Desktop\oot	p-1.03\ <u>B</u> rowse
Include paths:	Output files
P <u>r</u> e-defined constants:	 ✓ Image (.IMG) ✓ Listing (.LST)
P-Code stack size: Compile	₩ <u>а</u> р (.МАР)
 OK	Cancel



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Save as <u>t</u> ype:	ZeitControl BasicCard Program (*.z	cc)	-	Cancel

Click Compile. Save project as HOTPC.ZCP





At this point you may change the source code and recompile, for example remove the ENABLEPRDISPLAY to reduce code size of the Balance Reader is not used.

<u>File Edit Project Options Iools H</u> elp	
hotp.def	
CUINEL FRIDECIJO - 4	
Const FMTDEC319 = 5	
Const FMTDEC3110 = 6	
Const FMTDHEX40 = 7	
' enable minimal functions for Spyrus Reader	
'Const ENABLECSETHOST = 1	
Const ENABLECGETHOST = 1	
Const ENABLECGETHOSTNAME = 1	
Const ENABLECGETHOTP = 1	
Const ENABLECSETADMINMODE = 1	
Const ENABLECSETBALANCECARDINDEX = 1	
Const ENABLECSETPIN = 1	
Const ENABLECTESTPIN = 1	
Const ENABLECGETVERSION = 1	
Const ENABLECSETADMINKEY = 1	
Const ENABLECSETHOST32 = 1	
Const ENABLECGETHOST32 = 1	
Const ENABLECGETHOTPCOUNT32 = 1	
'Const ENABLECGETHOTPHOST = 1	
Const ENABLECGETHOTPHOSTCOUNT32 = 1	
Const ENABLECPRDISPLAY = 1	
Const ENABLECCLEARALL = 1	
Const ENABLESETREADERKEY = 1	
•	
' Capabilities bits	
P	~
	>

Use the IDE to burn the HOTPC.IMG file to the SC This may also be done from Unix/Linux with the supplied bcload utility. Select Tools/Download to card, then select the image and SC port. Click Download to start.

ZeitControl Professional IDE	
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🖼 BasicCard Program		
File Yiew Run Card Options Help Run Step Over Step Into Step Rgturn Step to Terminal Pause	BasicCard Download Image file: C:\Documents and Settings\Admin\Desktop\ootp-1.03\ Download Card state: Test Multiple cards Download Cancel	Download Progress Downloading to OMNIKEY CardMan 1021 0 on COM100 WRITE EEPROM 8AE0 41% Cancel