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.

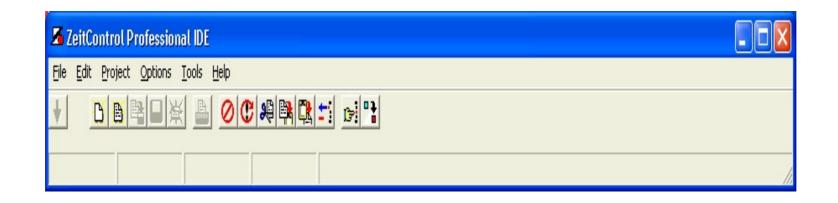
The IDE compiles HOTPC.BAS to compact PCODE and stores the result in HOTPC.IMG which is then downloaded to a ZC3.9 SmartCard using the IDE or Unix/Linux bcload utility.

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

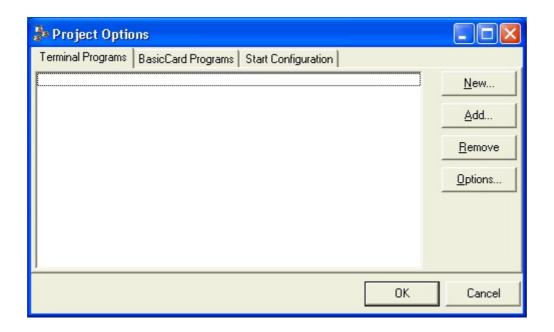
The ZeitControl BasicCard IDE is available as a free download from <a href="http://www.basiccard.com">http://www.basiccard.com</a>

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

## Start ZeitControl IDE



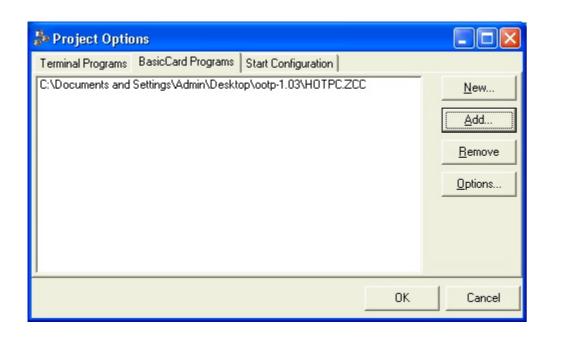
## Select Project/Options. Click on BasicCard Programs



## 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

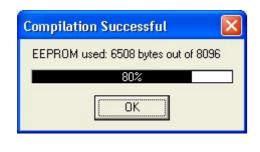
Open			? 🛛
Look in: 📴	ootp-1.03	- 🗲 🔁	-111 1
HOTPC			
File <u>n</u> ame:	НОТРС		<u>O</u> pen
Files of type:	Basic File (*.bas)	•	Cancel

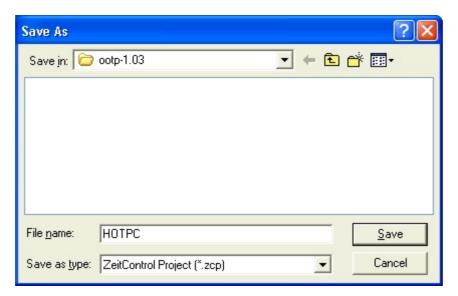
BasicCard Program Options	X
Card type       ZC3.4         COmpact       ZC3.42         CEnhanced       ZC3.43         CProfessional       ZC3.5         CMultiApplication       ZC3.7         Card _state:       Test	default
Source file: C:\Documents and Settings\Admin\Desktop\oot	p-1.03\ <u>B</u> rowse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



Save As				? 🛛
Save jn: 🔀	ootp-1.03	•	← 🖻	
File <u>n</u> ame:	НОТРС			<u>S</u> ave
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	
<u>Eile E</u> dit <u>P</u> roject <u>O</u> ptions <u>T</u> ools <u>H</u> elp	

🖼 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