

The TotalCross Companion

Table of Contents

PART I – THE PLATFORM	6
Welcome	7
Chapter 1 – TotalCross Overview	9
Supported Platforms	9
Virtual Machine Features	9
Thread support	
Graphics, Palette and Color	12
Images	13
Inheritance and Delegation event models	14
Security	
Getting Started	14
Bug Reporting	
Chapter 2 – The TotalCross SDK	16
Directory structure	
Running the Samples	
Chapter 3 – Building and deploying your first TotalCross application	
Building a sample application	
Running with the Launcher (on JDK)	
Deploying and running on Win32	23
Chapter 4 – The Launcher	
Chapter 5 – Deployment Process	
Parameters	
Options retrieved from the static initializer	
Specifying the Icon	
Adding other files to the package	
Chapter 6 – Installing your application	
BlackBerry	
Deployment	
Installation	
Signature	
iPhone/iPad	
"Cydia" support	
Manual installation of DEB files	
Palm OS	
Using the installer	
Manual installation	
Windows CE	
Using the installer	
Manual installation	
Identifying the right installation for your device	
Android	
Installing the device	
Deployment	
Installing in Device	41

Debugging	42
Chapter 7 – Using the Release Vms	44
Signing your application	44
Activating your application	44
Manual Activation	45
Using a third server to control licenses	46
Chapter 8 – SuperWaba to TotalCross conversion	49
General Tips	49
Correct way to handle Exceptions	51
Part II – USER INTERFACE	
Overview	56
Chapter 9 – User Interface styles	56
List of types	56
	63
Support for devices without pen	64
Chapter 10 – Font Support	65
Chapter 11 – The MainWindow class	67
The Android lifecycle	68
Chapter 12 – Adding Controls	70
Relative positioning	70
Making UI adjustments	73
Useful methods	74
Chapter 13 – Events	79
Control Events	79
Event Handling	81
Inheritance Event Model	81
Delegation Event Model	83
The Event class	84
Chapter 14 – Basic Controls	86
Button	86
Edit	88
Label	92
Check	96
Radio and RadioGroupController	97
ComboBox	100
ListBox	103
MultiEdit	107
Grid	108
ToolTip	115
Chapter 15 – Advanced Controls	116
Chapter 16 – The Window class	
UlColors	
Chapter 17 – Interface Dialogs	123
MessageBox	
InputPov	125

TotalCross Companion	5
Socket	197
ServerSocket	200
SOAP Webservices	201
The SOAP class	202
HTTPS / LiteSSL	205
Overview	205
Security background	206
Generating security material	207
Create a private CA	
Create a client or server X509 certificate	208
Principle of an X509 authentication/encryption	209
LiteSSL features	209
Restrictions	210
LiteSSL usage	
PART VIII – BARCODE SCANNER	
PART IX – OPTIMIZATION TRICKS	_
Overview	216
The Tricks	
PART X – APPENDIXES	
Appendix I – Copyright	
Appendix II – Platform specific known features/flaws	
Palm OS	_
Windows CE	
BlackBerry	
iPhone	
Appendix III – Tutorials for third-party tools	
Deploying with Ant	
Configuring Eclipse to Run and Debug TotalCross Programs	
Appendix IV – Referenced images	234