

Symbian OS – Part 2

Development for Symbian OS / Series 60

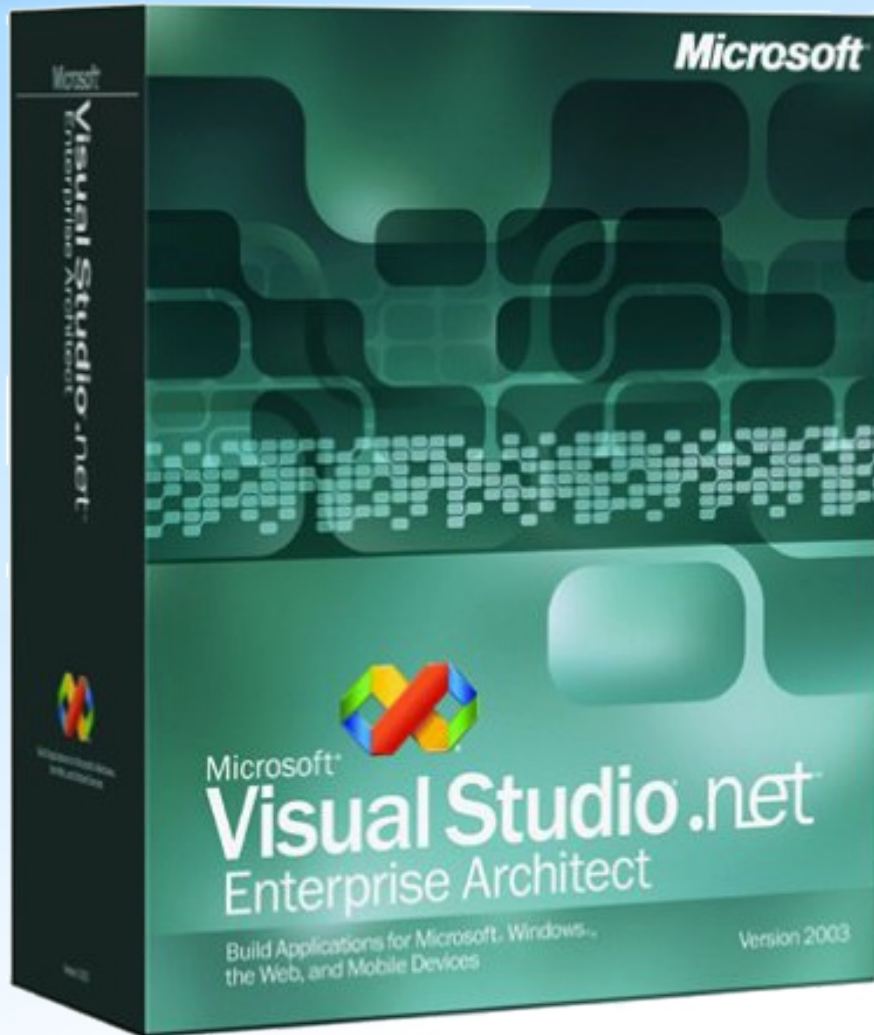


IDE's



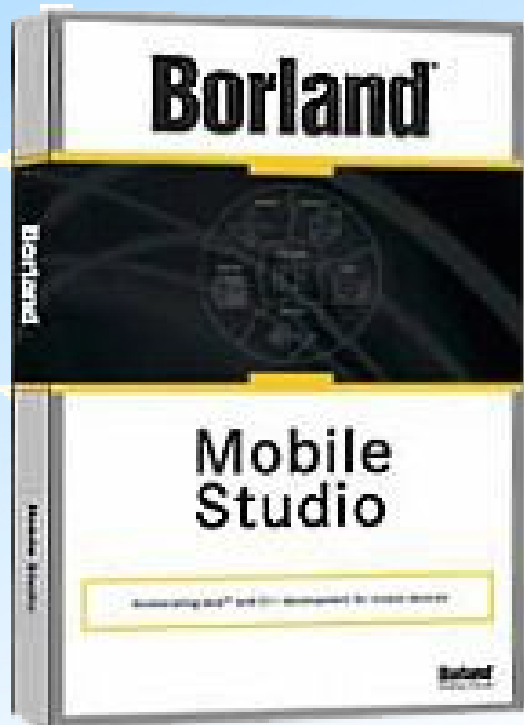
- Metrowerks
CodeWarrior for
Symbian OS
 - now maintained by
Nokia
 - very good integration
of Symbian OS SDKs
 - UI needs getting used
to

IDE's



- Microsoft Visual Studio .net
 - Plugin: Nokia Developer Suite 1.1 to enable Symbian OS Support
 - Freely available since May 2005

IDE's



- Borland C++ Builder Mobile Edition
 - Visual design of a Series 60 UI
 - Slow, cumbersome

IDE's



- Eclipse
 - Support will start with Symbian OS 9 (end of 2005)
 - At the moment only unofficial plug-in without debugging support

SDKs and development

- Different Series 60 SDKs available
- Choose one depending on required compatibility and features
- Upward compatible, partially downward comp.

SDK	OS-Version	Devices
1 st Ed.	v6.0	7650
1 st Ed., FP 1	v6.1	N-Gage, SX1, 3650
2 nd Ed.	v7.0s	6600
2 nd Ed., FP 1	v7.0s	7610, 6670, 6260
2 nd Ed, FP 2	v8.0	6630, 6680, 6681
2 nd Ed, FP 3	v8.1	N70, N90



Emulator

- Simulates Series 60 phone
- Completely supports debugging
- Simulates connections etc.



Differences Emulator / Device?

- Device does not support static data
 - Warning: The emulator does support it!
 - If really required: Workarounds are available (e.g. EpocStat)
- PC is than mobile phone (of course)
- Small differences concerning threads, ...
- Generally it's no problem – nevertheless, always test on a mobile phone during development!

Installation

- Required software:
 - Microsoft Visual Studio .net
 - ActiveState ActivePerl
 - <http://www.activestate.com>
 - (Microsoft Visual J# Redistributable)
 - One or more Nokia Symbian OS Series 60 SDKs
 - <http://forum.nokia.com>
 - Nokia Developer Suite for Symbian OS
 - (Nokia Developer Suite Help)



Help!

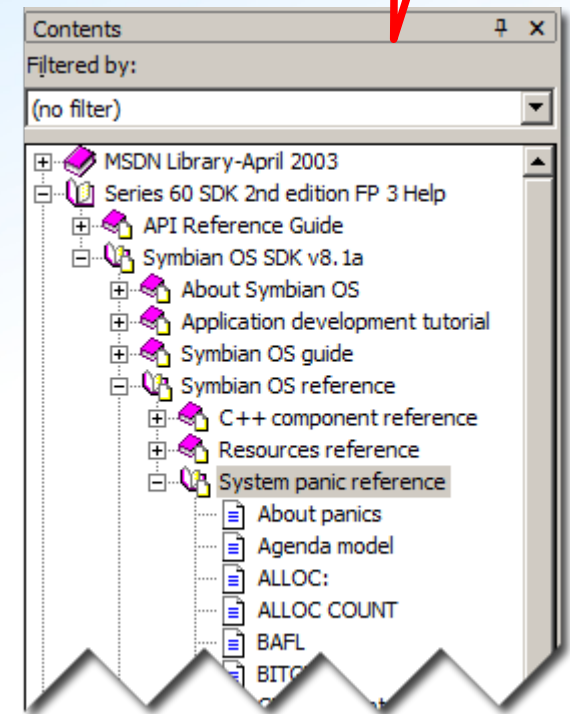
- There are many places for support, you only have to know them:
- Insiders' tip: Symbian Newsgroup!
 - publicnews.symbiandevnet.com
- 100+ SDK Examples:
 - C:\Symbian\7.0s\Series60_v20\Examples
 - C:\Symbian\7.0s\Series60_v20\Series60Ex
- Symbian OS Reference Guide
 - In VS.net, help is directly integrated



Help! - Error codes

- Errors often displayed only as error code
- E.g.: "KERN-EXEC 3" – What's the reason?
- Find it in Visual Studio through:
 - Help → Contents
 - Set filter to: "(no filter)"
 - Series 60 SDK 2.x Help → Symbian OS → Developer Library → API Reference → System Panic Reference

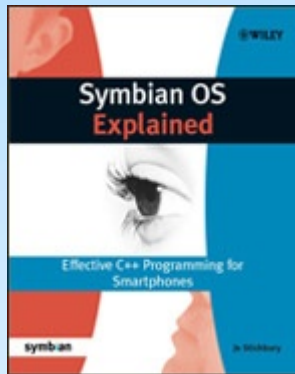
Picture shows:
2nd Edition
FP3+ Help



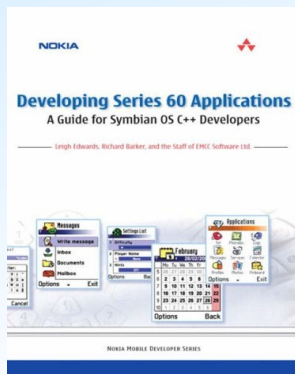
Help! - On the web

- Web sites:
 - Symbian Developer Network
 - <http://www.symbian.com/developer/>
 - Forum Nokia
 - <http://forum.nokia.com/>
 - NewLC
 - <http://www.newlc.com/>

Help! - Literature



- “Symbian OS Explained”
 - Introduction to all unique aspects of Symbian OS



- “Developing Series 60 Applications”
 - Tutorials specialized on Series 60 development