

??S60????????????????????

??S60????????????????S60?????????????????????????????? S60????????????????????S60????????S60 3rd Edition????????????????????????????S60????????

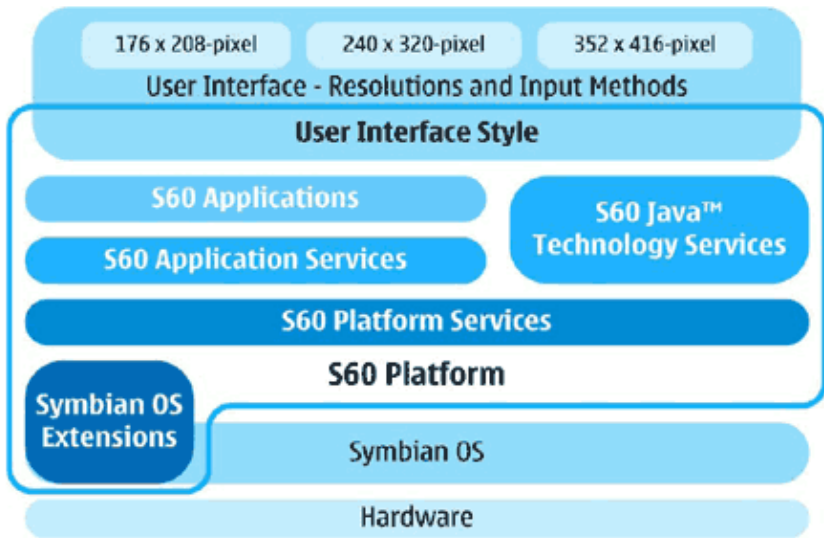
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S60????????????????????Symbian

OS??S60??

S60??????

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?1?S60?????

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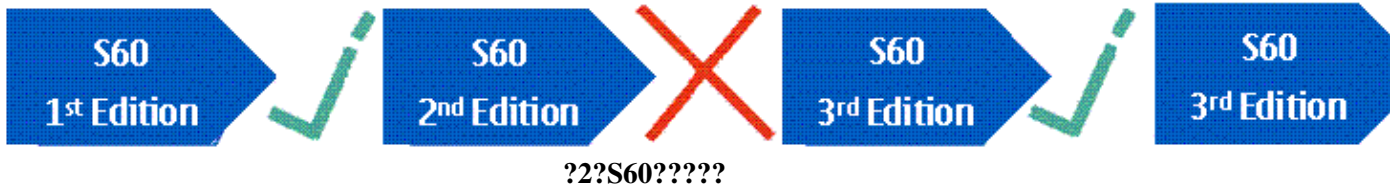
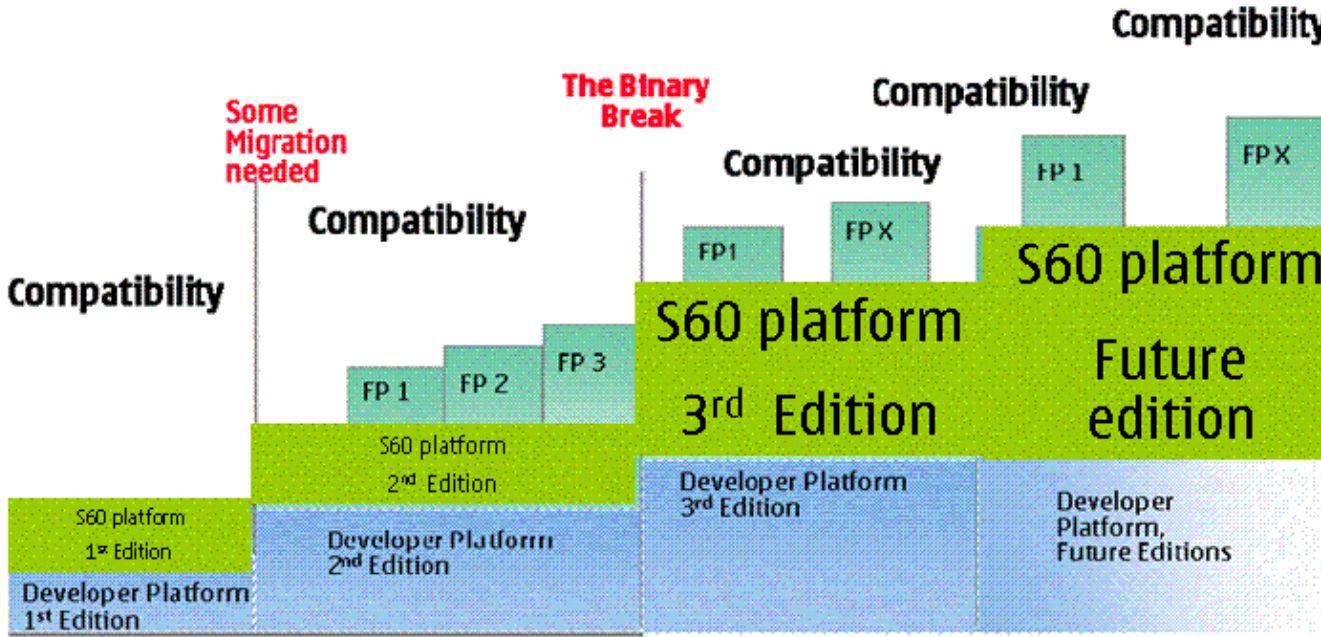
S60????Symbian OS????????????????????S60????????????S60????????1st Edition, 2nd Edition????3rd Edition????Edition????????feature packs????????????????

Symbian OS????????????????Symbian/S60????????S60????????????????2nd Edition?3rd Edition??

S60????????????????

- **S60 1st Edition**, Symbian OS v6.1
- **S60 2nd Edition**, Symbian OS v7.0s
 - ◆ S60 2nd Edition, Feature Pack 1 ? Symbian OS v7.0s
 - ◆ S60 2nd Edition, Feature Pack 2 ? Symbian OS v8.0a
 - ◆ S60 2nd Edition, Feature Pack 3 ? Symbian OS v8.1a

- **S60 3rd Edition**, Symbian OS v9.1
 - ◆ S60 3rd Edition, Feature Pack 1 ? Symbian OS v9.2
 - ◆ S60 3rd Edition, Feature Pack 2 ? Symbian OS v9.3
- **S60 5th Edition**, Symbian OS v9.4



????S60????????????????????[??] ???Edition?Feature Pack???Symbian OS????????????????????S60 3rd Edition ?????????????????S60 3rd Edition????????????

??Symbian OS??????????Symbian???

Symbian OS Extensions????????????S60????????????????????????????????????

S60 platform services??S60????????????????

- ?????????????????????????UI????????????
- UI??????UI??????????????????UI???
- ?????????????????????????
- ?????S60????????????????
- Web??????????????????Web???????????????? ??????????????
- ?????????????????????????????????

• Carbide C++ Express 1.0/1.1/1.3/2.0

Carbide Express ???S60 3rd Edition??Symbian C++/tools????????????????????????

Carbide???

• Carbide C++ 1.0/1.1/1.3/2.0

????????????????????????UIQ??S60??
??Symbian????????????????Professional?
??OEM????????????????????????????
????????????????Carbide?????Screencast????????????????????1.0????????????????????????Cabide.c++
Developer and Professional Edition, 2.0??

?Carbide.c++ ???, ??????? C++ Developer's Library.

????????????????MS-DOS??????????

Start ==> Programs ==> Carbide.c++ 2.0 ==> Configure environment for WinsCW command line

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??S60 3rd Edition SDKs

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??????**Tools and SDKs**, ?????Symbian C++/tools????????????????S60 3rd Edition SDK????????????????????SDK??S60 3rd Edition??????

- 3rd Edition
- 3rd Edition, Maintenance release
- 3rd Edition, FP1
- 3rd Edition, FP2

????????????????3rd Edition?. **3rd Edition**??S60 3rd Edition????????FP1/FP2????????????????????**Maintenance release**??SDK????????????????????????????S60 3.0 SDK????????????feature packs????????????????????????????????????S60 3rd Edition??????.

??????????**3rd Edition, FP2**?Carbide.vs 2.02?Carbide.vs 3.01?,?Visual studio????????**3rd Edition, FP2**??SDK,???:**S60 3rd Edition FP2 SDK**??????

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Java.Sun.com

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??perl

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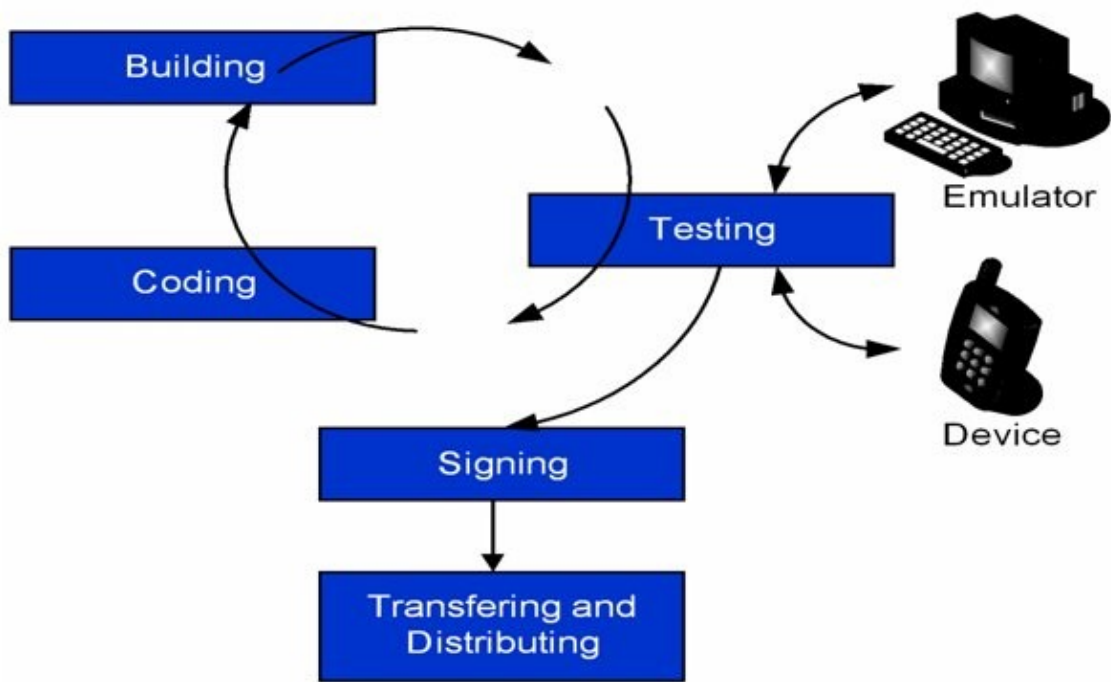
[ActivePerl-5.6.1.635](#)

??PC????????perl????????????S60 3rd Edition SDK release
note??Perl??

S60 3rd Edition??????

????S60 3rd Edition????????????S60 3rd Edition????????????????????????S60 2nd
Edition??????????

?S60 3rd Edition??????????????



??3. S60??????

??S60 3rd Edition????IDE????????????????

SymbianSigned.com????????????????????

??Java??????

bldmake bldfiles
abld build winscw udeb

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bldmake bldfiles
abld build gcce urel

????GCCE?????????SDK???????

????????????????????????????????RCVT ARMV5????????????????GCCE????????????

??IDE????Carbide.c++, Carbide.vs)????????????????????

3. ???Testing?

????????PC??S60 3rd edition????????S60 2nd
edition????????Symbian
Signed??

??????[SymbianSigned.com](#)????Symbian Signed????????????

??(Nokia test criteria)?????????

4. ???Signing?

??S60????????????????????????????

◇ ?????????UID??0x80000000 ?

0xFFFFFFFF????????????????????capabilities??

ReadUserData, WriteUserData, NetworkService?UserEnvironment??.

????????4??Smbian??.????????,????????????UID????????????

◇ **Symbian Signed**????????UID??0x00000000 ?

0x7FFFFFFFF????????????????????APIs???Symbian signed?????????.????????[File:Symbian](#)

[Signed - Webinar.pdf](#)

- ◇ **Open signed without publisher ID:** www.symbiansigned.com?????,
 ??????????????????????IMEI?. ??????????????????,?????36?????. ??????????Publisher ID.
 ??????????????????. ?????????????? ??????????
- ◇ **Open signed with publisher ID:** TC.TrustCenter?????Publiser ID.
 ??????????,?????WoSign?????Publisher ID. ??Publisher ID,
www.symbiansigned.com?????????????????????(?DevCertRequest?????)?????.
 ??????,?????????????????, ??????????????1000?????. ??????????36??.
 ??????????????????.?????????????, ?????????? ? ??????????????
- ◇ **Express signed:** ??????????Publiser ID,
www.symbiansigned.com?????????????????????????????????????20?????????????????????.sis???,
 ??????????????????,?????????????????????????????. ??????????????????.????????????????????
- ◇ **Certified signed:** ??????????Publisher ID. ??????????Open signed ? Self-signed
 ??????????????????????????????UID(0x00000000-0x7FFFFFFF)?
 ??????????????????Symbian?????????????????????????????
 ??????????Symbian?????,?????????????????????????
- ◇ **Symbian signed for Nokia:**
 ??????????Nokia?????????(Preinstall)?????????Nokia?????????????????Symbian?????????????????????????
 Nokia?????????Certified signed?????. ??????????Symbian?????????????.
www.symbiansigned.com. ??????????????. ??????????????. ??????????????,
 ??????????????????????Nokia?????????. ??????, ??????,?????????Open signed with publisher
 ID?????????

?????????????????(Freeware)?????????????????????????????Freeware??

???: ??????????????????????????????

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- ◇ mPhasis (????)
- ◇ Capgmini
- ◇ NSTL

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??SymbianSigned?????????Symbian Signed??

?????????????????????????????????ACS publisher ID???ACS publisher
 ID?????????ID?????????100???Developer Certificate Request Process v2.0.pdf

?????????????????????ACS publisher
 ID?????????????????Verisign???SymbianSigned?????????????????????SymbianSigned-C

??SymbianSigned?????????Symbiansigned?????

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5. ?????Transferring and distributing?
??NCD?(Nokia content
Discover????????NCD????????????????????????????NCD????????????????

S60 3rd Edition???

??S60 3rd edition????????????????????????

- ?????????????????????????makekeys????????????????????????????

```
makekeys -cert -password 12345 -dname "CN=username OU=NOKIA CO=GB EM=xyz@abc.com" mykey.key mycer
```

????????Symbian ??Certificate

Request??6????????????????????????????????6???

- ??Symbian Signed????????????????????????????

1. ?SymbianSigned????DevCertRequest????????
2. ??Certificate Request?????.csr??Private
Key????????????????????????????????
3. ??????????.csr???.key???
4. ??SymbianSigned????????????????????"My Symbian Signed"????????????????Open
Signed->Request?????.csr????????????????????capabilities?????????????????.cer????????
5. ??gcce
?armv5????????????????????armv5???.gcce????????????????ARM?????????????.gcce?SD
bldmake bldfile
abld build gcce urel
6. ??makesis?????.sis??:
makesis myapp_gcce.pkg??myapp_gcce.pkg????????????????

?????.key ?.cer????????????????????????????????????

signsis myapp_gcce.sis myapp_gcce.sisx mycer.cer mykey.key mypassword

??signsis

????????myapp_gcce.sisx??

????Symbian signed????????????

??IDE????????????????????????????gcce?

??armv5????????????????????Carbide.c++?Carbide.vs????????

??Symbian???eLearning????Symian????????

- [????E-learning??](#)

?? Forum Nokia video casts ??????????????
 ?????????????????????????????????????

- [Opensource.nokia.com](#)

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- [SymbianSigned.com](#)

?? S60 testing ?????????????????S60?????????????

- [S60 ???2nd?3rd????](#)

- [???2nd?3rd????](#)

- [NewLC.com](#)

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- [Symbian S60 ??????](#)

- [my-symbian.com](#)

?????????

- [handango.com](#)

?????Symbian??????

- [??S60??????](#)

- [NDC](#)

?????NCD (Nokia Content Discover)?????????NCD??
 ???

- [Nokia ????](#)

- [Nokia ??????](#)

- [S60???????????](#)

- [?????](#)

- [S60 ??????](#)

- [S60 3rd Edition ??????????](#)

- [?????????](#)

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S60??S60 3rd
Edition??S60 3rd Edition????????????S60 2nd Edition??????

S60????????????????????????ARM??

S60 3rd Edition??Java
Verified??