

# Service Schematics

## Introduction

### Important

This document is intended for use by authorized service centers only.

"Service Schematic" was created with focus on customer care.  
The purpose of this document is to provide further technical repair information for Nokia mobile phones or latest kit service activities.  
It contains additional information such as e.g. "Component Index",  
"Frequency band table" or "Antenna switch table".  
The "Signal overview" page gives a good and fast overview about the most important signals and voltages on board.  
Saving process time and improving the repair quality is the aim of this document.  
It is to be used additionally to the service manual and other training  
or service information such as Service Bulletin.

All measurements were made using following equipment:

Nokia repair kit	Phone version 2005.06.01.00
Capacitor	Fluke PM 3304/5
Spectrum Analyzer	Advanced K1012 with an analog probe
Bit Generator/PSM Tester	Wave & Software (PW 20)
Multimeter	Fluke 73 Series2

While every endeavor has been made to ensure the accuracy of this document, some errors may exist. If the reader finds any errors, Nokia shall be notified in writing.

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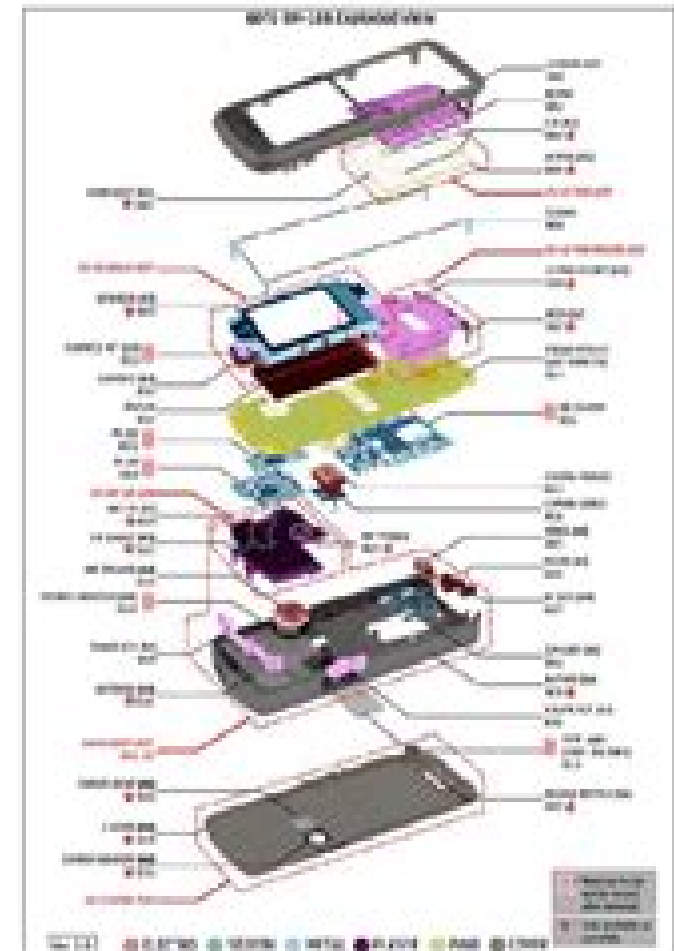
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## Exploded view and component disposal



# Nokia Service Manual

**Gwenaël Le Bodic**



## **Nokia Service Manual:**

**Advances in Digital Forensics** Mark Pollitt, Sujeet Sheno, 2006-03-28 Digital forensics deals with the acquisition preservation examination analysis and presentation of electronic evidence Networked computing wireless communications and portable electronic devices have expanded the role of digital forensics beyond traditional computer crime investigations Practically every crime now involves some aspect of digital evidence digital forensics provides the techniques and tools to articulate this evidence Digital forensics also has myriad intelligence applications Furthermore it has a vital role in information assurance investigations of security breaches yield valuable information that can be used to design more secure systems Advances in Digital Forensics describes original research results and innovative applications in the emerging discipline of digital forensics In addition it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations The areas of coverage include Themes and Issues in Digital Forensics Investigative Techniques Network Forensics Portable Electronic Device Forensics Linux and File System Forensics Applications and Techniques This book is the first volume of a new series produced by the International Federation for Information Processing IFIP Working Group 11 9 on Digital Forensics an international community of scientists engineers and practitioners dedicated to advancing the state of the art of research and practice in digital forensics The book contains a selection of twenty five edited papers from the First Annual IFIP WG 11 9 Conference on Digital Forensics held at the National Center for Forensic Science Orlando Florida USA in February 2005 Advances in Digital Forensics is an important resource for researchers faculty members and graduate students as well as for practitioners and individuals engaged in research and development efforts for the law enforcement and intelligence communities Mark Pollitt is President of Digital Evidence Professional Services Inc Ellicott City Maryland USA Mr Pollitt who is retired from the Federal Bureau of Investigation FBI served as the Chief of the FBI s Computer Analysis Response Team and Director of the Regional Computer Forensic Laboratory National Program Sujeet Sheno is the F P Walter Professor of Computer Science and a principal with the Center for Information Security at the University of Tulsa Tulsa Oklahoma USA For more information about the 300 other books in the IFIP series please visit [www.springeronline.com](http://www.springeronline.com) For more information about IFIP please visit [www.ifip.org](http://www.ifip.org) , **Mobile Web Services** Frederick Hirsch, John Kemp, Jani Ilkka, 2007-01-11 Mobile Web services offer new possibilities and extraordinary rewards for the mobile telecommunications market Service oriented architectures SOAs implemented with Web services are fundamentally changing business processes supported by distributed computing These technologies bring forward the promise of services available at any time in any place and on any platform Through mobile Web services operators can offer new value added services for their users explore new business opportunities and increase revenue and customer retention This expands the commercial opportunities for developers to promote their applications and enables solutions that work seamlessly across computer and mobile environments Mobile Web Services is a comprehensive up to date and practical guide

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depth description of messaging technologies supported by mobile networks It covers the Short Message Service SMS Enhanced Messaging Service EMS through to the more complex and emerging Multimedia Messaging Service MMS The Short Message System SMS has proved to be incredibly popular and is supported by most GSM TDMA and CDMA mobile networks This volume focuses on the Short Message Service introduced by the European Telecommunications Standard Institute ETSI for GSM and GPRS networks On the basis of ETSI standard the 3rd Generation Partnership Project 3GPP is currently the organisation responsible for maintaining the SMS technical specifications In its most basic form the Short Messaging Service allows users to exchange short messages composed of a limited amount of text and it is expected that up to 100 Billion short messages could be exchanged monthly by the end of 2002 The Enhanced Message Service EMS an application level extension of SMS supersedes basic SMS features by allowing elements such as images animations formatted text and monophonic melodies to be inserted in short or concatenated messages Recently the 3GPP has been focusing on the development of the Multimedia Message Service MMS MMS features include the exchange of messages containing polyphonic melodies large images video elements sometimes organised with a multimedia presentation language such as SMIL or xHTML MMS will be supported by 2.5 G and 3G networks MMS specifications have reached a fairly mature stage and MMS commercial solutions are appearing on the market Unlike EMS MMS has been specified by the 3GPP as a service independent from the underlying network technologies In parallel to the 3GPP standardisation process other organisations have specified network specific implementations of MMS such as the WAP implementation defined by the WAP Forum In order to develop applications using Short Enhanced and Multimedia messaging technologies engineers have to become familiar with the use of technical specifications produced by various standard development organisations such as the 3GPP the WAP Forum and the IETF and this is the first book to pull this vast array of material together Provides an in depth description of the different messaging services and messaging technologies Presents an introduction to mobile networks Features numerous practical implementation examples Provides a unique easy to follow presentation of messaging services and mobile networks within a single publication Essential reading for content providers service providers network operators and telecommunications manufacturers researchers postgraduate students marketing and standardisation personnel

InfoWorld ,2004-12-06 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects Complex Arbitrations Bernard Hanotiau,2020-07-10 Complex Arbitrations Multi party Multi contract and Multi issue A Comparative Study Second Edition Bernard Hanotiau Arbitrations involving more than two parties and complex multi contractual issues are becoming more and more prevalent every year in every major jurisdiction worldwide This fully updated extensively revised edition of a far seeing 2006 book that has been greatly valued and widely used remains the only comprehensive analysis of all the issues arising from multi party multi contract arbitrations including those involving States and groups of companies The numerous factors and problems

analysed in depth include the following theories on the basis of which various courts and tribunals determine who are parties to the arbitration clause and whether a non signatory may be part of the proceedings to what extent one can bring to a single arbitration proceeding the various parties who have participated in a single economic transaction through several contracts reasoning to follow when it comes to deciding whether another company of the group can be joined to the arbitration whether a party to a complex contractual structure can intervene voluntarily in the proceedings under what conditions arbitrations may be consolidated to what extent res judicata applies when a second arbitration is initiated between the same parties on different legal grounds how and to what extent one can overcome the inconveniences that arise from having several parallel proceedings and enforcement of multi party multi contract awards Features of particular value to the practitioner include in depth analysis of ad hoc and institutional awards rendered under the auspices of numerous arbitral institutions analysis of relevant national case law based on hundreds of court decisions from all over the world and appendices specifying multi party multi contract arbitration clauses provisions of international conventions and relevant national legislative and institutional rules The first edition has been used all over the world frequently referred to by courts and tribunals when one of its topics is addressed The second edition with its increased volume of arbitral awards and cases from many more jurisdictions its new scenarios its updates on new legislation and rules and its newly researched jurisprudence will help lawyers and corporate counsel solve the increasingly complex procedural issues confronting them in dealing with multi party multi contract disputes Law professors and students of dispute resolution have here a powerfully authoritative consideration of one of the most salient aspects of current international practice **The Indian National**

**Bibliography** B. S. Kesavan, 2006-07 *Bluetooth Security Attacks* Keijo Haataja, Konstantin Hyppönen, Sanna Pasanen, Pekka Toivanen, 2013-10-28 Bluetooth technology has enjoyed tremendous success and it is now employed in billions of devices for short range wireless data and real time audio or video transfer In this book the authors provide an overview of Bluetooth security They examine network vulnerabilities and provide a literature review comparative analysis of recent security attacks They analyze and explain related countermeasures including one based on secure simple pairing and they also propose a novel attack that works against all existing Bluetooth versions They conclude with a discussion on future research directions The book is appropriate for practitioners and researchers in information security in particular those engaged in the design of networked and mobile devices *The Best Damn Firewall Book Period* Syngress, 2003-10-16 This book is essential reading for anyone wanting to protect Internet connected computers from unauthorized access Coverage includes TCP IP setting up firewalls testing and maintaining firewalls and much more All of the major important firewall products are covered including Microsoft Internet Security and Acceleration Server ISA ISS BlackICE Symantec Firewall Check Point NG and PIX Firewall Firewall configuration strategies and techniques are covered in depth The book answers questions about firewalls from How do I make Web HTTP work through my firewall To What is a DMZ and why do I want one

And What are some common attacks and how can I protect my system against them The Internet s explosive growth over the last decade has forced IT professionals to work even harder to secure the private networks connected to it from erecting firewalls that keep out malicious intruders to building virtual private networks VPNs that permit protected fully encrypted communications over the Internet s vulnerable public infrastructure The Best Damn Firewalls Book Period covers the most popular Firewall products from Cisco s PIX Firewall to Microsoft s ISA Server to CheckPoint NG and all the components of an effective firewall set up Anything needed to protect the perimeter of a network can be found in this book This book is all encompassing covering general Firewall issues and protocols as well as specific products Anyone studying for a security specific certification such as SANS GIAC Certified Firewall Analyst GCFW will find this book an invaluable resource The only book to cover all major firewall products from A to Z CheckPoint ISA Server Symatec BlackICE PIX Firewall and Nokia

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**Mobile Phone Security and Forensics** Iosif I. Androulidakis,2012-03-29 Mobile Phone Security and Forensics provides both theoretical and practical background of security and forensics for mobile phones Security and secrets of mobile phones will be discussed such as software and hardware interception fraud and other malicious techniques used against users will be analyzed Readers will also learn where forensics data reside in the mobile phone and the network and how to conduct a relevant analysis

**Computer and Information Security Handbook** John R. Vacca,2009-05-04 Presents information on how to analyze risks to your networks and the steps needed to select and deploy the appropriate countermeasures to reduce your exposure to physical and network threats Also imparts the skills and knowledge needed to identify and counter some fundamental security risks and requirements including Internet security threats and measures audit trails IP sniffing spoofing etc and how to implement security policies and procedures In addition this book covers security and network design with respect to particular vulnerabilities and threats It also covers risk assessment and mitigation and auditing and testing of security systems as well as application standards and technologies required to build secure VPNs configure client software and server operating systems IPsec enabled routers firewalls and SSL clients This comprehensive book will provide essential knowledge and skills needed to select design and deploy a public key infrastructure PKI to secure existing and future applications Chapters contributed by leaders in the field cover theory and practice of computer security technology allowing the reader to develop a new level of technical expertise Comprehensive and up to date coverage of security issues facilitates learning and allows the reader to remain current and fully informed from multiple viewpoints Presents methods of analysis and problem solving techniques enhancing the reader s grasp of the material and ability to implement practical solutions

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