Boffin/Open Integrated Freight System

Release 10.2005.01

for

Oracle 9i Client/Server & Oracle 9i A/S Web enabled

Detail Overview

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Regular recipients of this overview

10-JAN-2002	* Bishopstrade Limited, Johannesburg	Derek May
04-APR-2001	Grant Systems Limited, London	David Naber

Location of this WordPerfect V9 Word Processing Document

All of the WordPerfect documents which comprise this manual are stored in a single discrete word processing directory on Bishopstrade Limited, **LaptopIII\D:\cdload9.0\manuals*.***. These further developed documents are numbered in an expanding series, as follows:-

BoffinOpen00-9.0.WPD **Main documentation introduction and index**
BoffinOpen01-9.0.WPD **Boffin/Open Supply Agreement**
BoffinOpen02-9.0.WPD **Boffin/Open Software Support & Maintenance**
BoffinOpen03-9.0.WPD **Boffin system structure**
BoffinOpen04-9.0.WPD **Operational and accounting months**
BoffinOpen05-9.0.WPD **System hardware overview**
BoffinOpen05A-9.0.WPD **Actual hardware construction for the port of Beira**
BoffinOpen05B-9.0.WPD **Actual hardware construction for Phoenix Intl, London**
BoffinOpen05C-9.0.WPD Actual hardware construction for Phoenix Europe, Paris
BoffinOpen05D-9.0.WPD Actual hardware construction for Speedy Overborder, JNB
BoffinOpen06-9.0.WPD **Post contract signing - user preparations**
BoffinOpen07-9.0.WPD **Hardware assembly, software installation, database setup**
BoffinOpen08-9.0.WPD **Setting up a new subordinate installation**
BoffinOpen09-9.0.WPD **Computer room processes**
BoffinOpen10-9.0.WPD Accounting system handover
BoffinOpen11-9.0.WPD On the first morning of live operation
BoffinOpen12-9.0.WPD
BoffinOpen13-9.0.WPD Boffin/Open System parameters
BoffinOpen14-9.0.WPD Approaching Boffin and defaults
BoffinOpen15-9.0.WPD **Boffin System Defaults**
BoffinOpen16-9.0.WPD **Boffin Workstation Defaults**
BoffinOpen17-9.0.WPD **Cash office**
BoffinOpen18-9.0.WPD **Sales ledger**
BoffinOpen19-9.0.WPD **Bought ledger**
BoffinOpen20-9.0.WPD **General Ledger**
BoffinOpen21-9.0.WPD Overhead expense analysis
BoffinOpen22-9.0.WPD Budgets
BoffinOpen23-9.0.WPD Sales and Marketing
BoffinOpen24-9.0.WPD Customs tariffs and tariff indices
BoffinOpen25-9.0.WPD Surface import cargo bookings EDI transmissions
BoffinOpen26-9.0.WPD
BoffinOpen27-9.0.WPD **Setup of Profit/Loss and Balance Sheet reports**
BoffinOpen28-9.0.WPD **Discussion and setup of Reallocation Cost Centres**
BoffinOpen29-9.0.WPD **Writing-off customer under-payments**
BoffinOpen30-9.0.WPD Writing-off supplier underpayments
BoffinOpen31-9.0.WPD Countries, currencies and Exchange Rates
BoffinOpen32-9.0.WPD Profit/Loss in Exchange processing
BoffinOpen33-9.0.WPD Entering initial trial balance
BoffinOpen34-9.0.WPD Obtaining accounting information from remote site(s)
BoffinOpen35-9.0.WPD Internal fuel distribution control
BoffinOpen36-9.0.WPD Confirming house operation
BoffinOpen37-9.0.WPD Operational Norwegian inland door/door
BoffinOpen38-9.0.WPD Operational German inland door/door
BoffinOpen39-9.0.WPD Operational South African door/door
BoffinOpen40-9.0.WPD **Operational Surface Imports**
BoffinOpen41-9.0.WPD **Operational Surface Exports**

BoffinOpen42-9.0.WPD	**Operational Direct Air Exports**
BoffinOpen43-9.0.WPD	Operational Consolidated Air Exports
BoffinOpen44-9.0.WPD	Operational Breakbulk Air Imports
BoffinOpen45-9.0.WPD	Operational Direct Air Imports
BoffinOpen46-9.0.WPD	Operational Bulk Sales invoicing
BoffinOpen47-9.0.WPD	Detailed description of Surface Import SuperRates
BoffinOpen48-9.0.WPD	Tele-Communications links with CCS
BoffinOpen49-9.0.WPD	**Trading accrual processing**
BoffinOpen50-9.0.WPD	Integrated Management Report Pack
BoffinOpen51-9.0.WPD	Integrated accounting system audit
BoffinOpen52-9.0.WPD	**In search of additional profits**
BoffinOpen53-9.0.WPD	Support for internal debits
BoffinOpen54-9.0.WPD	**Sample of Management month-end process**
BoffinOpen55-9.0.WPD	**Job costing, monitoring and correction**
BoffinOpen56-9.0.WPD	SAP interface with Boffin/Open transport-charge rating
BoffinOpen57-9.0.WPD	**Port Container control module**
BoffinOpen58-9.0.WPD	Warehouse Net Cost Price - Quotations (WNCP)
BoffinOpen59-9.0.WPD	Interfacing Boffin/Open with Microsoft Excel V7
BoffinOpen60-9.0.WPD	Beira Port operations general cargo, export
BoffinOpen61-9.0.WPD	Beira Port operations general cargo, import
BoffinOpen62-9.0.WPD	Beira Port entrance control by bar-code reading
BoffinOpen63-9.0.WPD	**South African motor vehicle delivery control**
BoffinOpen64-9.0.WPD	**Conversion of Boffin/VS to run with Oracle 9.0**
BoffinOpen65-9.0.WPD	**Port operations, vessel, voyage and work-gang planning**
BoffinOpen66-9.0.WPD	**Warehouse Nett Cost Price quotations**
BoffinOpen67-9.0.WPD	**Virtual machine support (Running multiple op. systems)**
BoffinOpen68-9.0.WPD	**Asset register, as part of the General Ledger**
BoffinOpen69-9.0.WPD	Kenya Revenue Authority, Customs Boffin/Unix development
BoffinOpen70-9.0.WPD	**Automatic e-mail transmission sub-system**
BoffinOpen71-9.0.WPD	**Automatic Proof-of-Delivery (POD) recording**
BoffinOpen72-9.0.WPD	**Development of the electronic operations control file**
BoffinOpen73-9.0.WPD	
BoffinOpen73-9.0.WPD	**Customs processing incoming EDIFACT manifests**
BoffinOpen74-9.0.WPD	**Direct Trader Input (DTI) for Kenya Customs & Excise**
BoffinOpen75-9.0.WPD	**Bishopstrade own Website development**
BoffinOpen76-9.0.WPD	**Bishopstrade mini-spec, Mocambique Revenue Authority**
BoffinOpen77-9.0.WPD	**Bishopstrade web-based application software support**
BoffinOpen78-9.0.WPD	**Customs & Excise Container Control system**
BoffinOpen79-9.0.WPD	**Customs & Excise overall system description**
BoffinOpen80-9.0.WPD	**South African Customs, CCA1 Declaration by EDIFACT**
BoffinOpen81-9.0.WPD	**Java development for Boffin/Open**
BoffinOpen82-9.0.WPD	**Commissioning Oracle 9iA/S application server**
BoffinOpen83-9.0.WPD	**Oracle 10i and 9iA/S Wireless applications development**
BoffinOpen84-9.0.WPD	**DHL, Danzas Air & Ocean Boffin/Open Server installation**
BoffinOpen85-9.0.WPD	**DHL, Danzas Air & Ocean Boffin/Open Rich Client-PC build**

Bibliography
Glossary
Index by topic

The Boffin/Open 'Top Ten' Rules

The following 'rules' have been amassed over time from the problems that the Boffin/Open users have caused themselves.

1. **Do NOT** allow the system to run with an incorrect **Boffin/Open Server date/time**. In the case of users with Wide/Local Area networks (WAN/LAN), using FAT-Client-PCs, the dates/times in participating Client-PCs is of equal importance. The application depends upon the Server/Client-PC for correct Local Date/Time at all times. The application extracts the then-current date and time for multitudinous reasons and an incorrect date and/or time is likely to cause erroneous results.

2. **Do NOT** post financial postings to the Boffin/Open **control accounts**, except the financial year opening balances. The user expects Bishopstrade to back the values residing on the control accounts and so only the Boffin/Open application should post to them.

3. **Do NOT** close down the system and then open it back up again with an invalid (earlier or later) **date**, as this is totally unnecessary. If you think it is necessary, make contact and discuss the situation with Bishopstrade.

4. **Absolutely ALL** Boffin/Open application database tables MUST be setup while the person creating the table is logged on under the 'BMS' logon. **ABSOLUTELY NO OTHER** database tables are to be created within the database with the person creating the table logged on as 'BMS'. New Oracle database tables 'belong' to the user logon under which they were created. Bishopstrade depend upon this fact when the effect the Oracle Export of the user's data tables for application backup reasons.

5. **DO NOT** use anyone else's **logon code** and password. If you have not been allocated your own unique logon and password, then get one for which you will be solely responsible. Do not use anyone else's logon as this is fraudulent and will be of great concern to your employers.

6. Unless otherwise specifically stated (no cases to-date), the user need not consider what any other regular user is doing when wishing to run any Boffin/Open application program. The system has been written to run continuously and to manage any mix of application program data-calls on a first-come, first-served basis. The worst that can happen is that two or more users run very large tasks, which will naturally each run slower due to overall system work load.

The operational modules of the system offer the user the facilities necessary to enable all sales invoicing to be effected against the applicable operational bookings. The system assumes that in the normal case, one sales invoice will be produced per booking, on which all of the sales charges will be submitted to the payer; this is called the Primary sales invoice. The system further provides for any number of Supplementary sales invoices and/or credit notes to be produced, which will generally be used for corrections/additions to the Primary invoice. Supplementary invoices and credit notes can be produced at anytime, provided the cargo booking has been allocated it's unique

Job Number. The rule is that ALL cargo bookings must be processed through the respective Primary Invoicing program, irrespective of whether there are any charges to be invoiced or not. Failure to adhere to this rule, will give incomplete results in at least the Statistical Analyses and the Sales & Marketing System.

Major additions and Amendments since last Edition

Edition 06.93.03

Initial hardware and applications software delivery
Boffin/Open core system
Boffin/Open multi-currency accounts receivable
Boffin/Open multi-currency accounts payable
Boffin/Open open-item general ledger
Boffin/Open accrual and closed cost file accounting system
Boffin/Open open-item job costing suite
Boffin/Open airfreight exports including consolidations
Boffin/Open airfreight imports including Breakbulk
Boffin/Open surface exports including groupages
Boffin/Open sales and marketing reporting
Boffin/Open profit-by suite
Boffin/Open Sco-Unix remote site access
WordPerfect for Unix on the system server
United Kingdom customs tariff support

Edition 06.93.04

Worldwide multizip postcode directory
Boffin/Open MultiDist - Postcode/Postcode distance tables
Five digit unified German postcode directory
Marketing company for each live company
Surface export SuperRates
Surface import SuperRates
Surface export shipment CMR
Surface export groupage CMR
EEC Proof of Export
Non-EEC Proof of Export
International surface import support for shipment CMR
Collection notes available from surface export pre-bookings
Support for German postcode/postcode distances
Utility postcode/postcode distance calculator

Edition 06.94.01

Expanded surface import SuperRates live
Expanded surface export SuperRates live
German national distribution system live
Reallocation cost centre support in open-item general ledger
P&L per cost centre available in management month-end
General ledger sales invoicing
Modified surface import advices of arrival
Deep-sea import vessel report released
Deep-sea import Related-account vessel report released

Edition 06.94.02

Deep-sea imports support for Voyage Exchange rates
Re-design of the German national distribution statistics
Lead installation increases to 4 disk drives & 3 Gigabytes

Dynamic (by logon) multi-language menus available
German language support for entire system, initial release
Direct air export and air export consolidations live at LHR
Matrix printing of Master & House Air Waybills available

Edition 06.94.03

Deep-sea imports support for Voyage Exchange rates
Electronic transmission of Surface Import bookings, live
Initial release of Surface Export Standard Shipping Note
Availability of Surface Export Standard Shipping Notes
Availability of Surface Import Standard Shipping Notes
EDI receipt of surface import bookings, Electronic Advices
Cleaner control of Customer-copy invoices
Initial release of EDI automatic advice of arrival
German screen language runtime, initial release

Edition 06.94.04

Initial BMS 10 Megabit Ethernet connecting PCS to Server
Introduction of Intel 80586 Pentium 100 MHZ option
Bishopsgate testing Boffin/Open on Pentium based system
Boffin/Open available under single and/or twin Pentium(s)
M+F Spedition upgrade DX2 66 MHZ to Pentium 100 MHZ

Edition 06.95.01

Initial new Release for 1995
Phase III of surface import cargo booking EDI Messaging
Introduction of upgraded (AACRCLST) Trading accrual auditing
Introduction of upgraded (AACRSUP) Trading accrual auditing
Introduction random, real-time trading accruals write-offs
Introduction of real-time trading accruals writing-off
Boffin/Open tested under IBM OS/2 Warp operating system
Boffin/AS testing under IBM AS/400 Client/Server system
Contract with CCS-UK for Global Network Services (GNS)
Testing of new United Kingdom ERTS software option
Openfile high-speed General Ledger key for Pentium systems
Testing of Airline EDI link application(s)
Expansion of Unix/TCP-IP connectivity beyond 5 addressees
Belleville UK install second installation in London city

Edition 06.95.02

Transworld Cargo Johannesburg install Boffin/Open
South African postcodes added to worldwide Multizip
South African, Botswana, Swaziland & Namibian Customs Tariff
1st parallel Pentium 80586 100 MHZ Boffin/Open installation
1st parallel (dual) processor Sco-Unix MPX Oracle installation
1st live system based mainly on matrix printers
Bishopsgate become worldwide Oracle VAR in freight systems
United Kingdom Import SAD available
Financial year-end trading accruals audit software available
South African Inland Distribution system available

South African CCA1 export customs entry available
South African import customs entry available
Namibian (NAMSAD) import customs entry available
Botswana import CCA1 customs entry available
Swaziland import CCA1 customs entry available

Edition 06.95.03

Transworld Cargo JNB, first Sco-Unix MPX installation
Lesotho Customs tariff available
Mozambique customs tariff
Namibian NAMSAD support
JetForm adoption for open laser printer and outgoing facsimile support
Introduction of Unix/Unix cu/cu telecommunications
1st parallel Pentium 80586 133 Mhz Boffin/Open, Europa Express

Edition 06.95.04

First live system based only on matrix printers
Boffin/VS interface with the Fred Olsen shipping line
ASG (Norge) A.S. link in Stavanger agent to Inland Network
Welcome to Transworld Cargo Cross-border (Pty) Ltd in Johannesburg
Welcome to Belleville Air Limited at London Heathrow
European door-door auto-pricing additions for Europa pilot scheme
Bishopsgate start migration of Boffin/Open to Oracle 7

Edition 06.96.01

Bishopsgate testing (4 x Pentium) motherboard, parallel processing
Bishopsgate testing RSA export customs entries in addition to CCA1
Expansion of postcode directory, 16 European countries
Boffin/Open Sales lead processing option under test

Edition 06.96.02

Boffin/Open testing under Microsoft NT V 4.0 & Oracle V 7.3
1st live installation Microsoft NT 4 / Oracle7 / Boffin/Open
Welcome to Walford Meadows, Harare
First live installation Boffin/Open Client/Server under Oracle 7
Initial release of Boffin/Open sales-lead tracking system
1st release Microsoft NT/Oracle7/Boffin-Open on Laptop computer
1st Boffin/Open installation with Internet connection and e-mail

Edition 06.97.01

Increase in magnitude of financial postings to 9,999,999,999,999,999.99-
Issuance of new and amended Boffin/Open software over the internet
Sco-Unix/Oracle 6.2 to MicrosoftNT/Oracle 7.3, in situ delivered

Edition 06.97.03

Support for HP PCL5e and PCL6 printer programming
Bank statement : Cashbook reconciliation live
Sco-Unix / Oracle 7.3 direct link to e-mail using send-mail
Support for LAN networked laser printers
1st release of A4 landscape multi-month profit/loss report

Edition 06.97.04
Expansion of South African National Distribution system
Expansion of surface import and export tracking and tracing functions
Hand-held bar-code readers used for direct tracking input at gates for cars

Edition 06.98.01
First installation using networked HP4000NT networked printers, full-duplex printing and including user company logo image in the Boffin/Open printer macros. This development save substantial amounts of overheads as only plain A4 stationery is required. User-company Terms and conditions of trade can now be printed by Boffin/Open on the reverse side of A4 documents and the company logo can be printed on the front face.

Major development in the setup and maintenance of Boffin/Open laser printers and the printer macros and/or drivers. This development allows the Boffin/Open printers to be used for spreadsheet and/or word-processing printing without the requirement to re-load Boffin/Open printer macros after such printing. A major appendix has been added to the chapter of this manual that discusses hardware and operating system issues.

Edition 06.99.01
(02/01/1999)
Introduction of the Port Container Control system
Full container storage invoicing
Empty container storage invoicing
Full sock reporting by various parameters
Introduction of Stevedoring operations
Labour gang maintenance and scheduling
Analysis of gang performance

Edition 06.99.02
(05/03/1999)
Expansion of dual currency general ledger accounting
Upgrade of the accounting system for very large values (15,2)
Welcome to Speedy Overborder Services (Pty) Ltd, Johannesburg

Edition 06.99.03
(25/05/1999)
Mocambique Value Added Tax reports
Completion of Container Control reporting functions

Edition 06.99.04
(21/07/1999)
Fat and Thin Client-PC support under Microsoft NT
Retrospective customer/supplier statements introduced

Edition 06.99.05
(18/09/1999)
Introduction of Port container control operations
Full duplex printing available on potentially large A4 Landscape reports

Edition 08.2000.01
(01/01/2000)
Monthly re-valuation of outstanding foreign currency transactions
Y2K transition completed and live on time
Introduction of new grey-scale screen design/colour standards
Largest Microsoft NT V4.0 site exceeds 50 fat-client-PCs

Edition 08.2000.05 (01/05/2000)	Introduction of Oracle 8i running under Microsoft NT V4.0 Examination of Microsoft Windows 2000 Server with Oracle 8i Major increase in detail for Value Added Tax control in General Ledger
Edition 08.2000.06 (15-JUL-2000)	Introduction of Personal accounts monthly currency re-valuations Completion of the Grey-screen upgrade throughout Boffin/Open Testing of Oracle 8i, in general terms Conversion of all Boffin/Open programs to new Oracle 8i standards Testing Oracle 8i, Remote Thin Client-PC access to the application
Edition 08.2001.01 (10-JAN-2001)	Availability of Boffin/Open 8i to existing customer sites Bank reconciliation upgrade completed, includes nominal journals Upgrade to all reports and displays, very large numbers capability All money values now shown with commas for clarity Asset Register application live Cascading tracking feature available in Surface Imports Cascading tracking feature available in Surface Exports Cascading tracking feature available in Direct Air Exports Cascading tracking feature available in Direct Air Imports Cascading tracking feature available in Breakbulk Air Imports Cascading tracking feature available in South African Inland system
Edition 08.2001.02 (03-MAR-2001)	Automatic general ledger year-end journal program (NOPENGTB) Welcome to Danzas/AEI Harare, Zimbabwe Surface exports, Proof-of-Delivery monitor live First Surface Export system running exclusively on SuperRates Speedy, first customer with HP PCL5e Logo embedded A4 portrait forms Oracle 7.3 based systems, automated midnight backup live
Edition 08.2001.03 (03-APR-2001)	Surface export Proof-of-Delivery monitor live in South Africa/Swaziland Asset Register suite available, integrates directly with General Ledger Variable Weight/Cube freight ratios available in SuperRates Surface export proof-of-delivery software tuned for speed Development of Surface Export manifest header information Welcome to Phoenix Freight Intl. - Paris, Boffin/Open 8 in French! Welcome to Phoenix Freight Intl. - London, Boffin/Open 8
Edition 08.2001.04 (10-JUN-2001)	Expansion of exports Goods Receipt Number (GRN) as search reference Exchange rate expansion from 4 to 8 decimal places for Euro (€) support Inclusion of a 'data-migration' chapter from Boffin/VS to Boffin/Open Introduction of separate VAT accounting month for French installations Start of testing of Boffin/Open for Oracle 9i with Portals support Surface imports, groupage unit building direct from cargo booking
Edition 08.2001.05 (01-AUG-2001)	Surface import AMETA profit share control function implemented Surface export AMETA profit share control function implemented

Surface imports process flow revised to make one process throughout
Surface import master booking process reduced booking fields
Surface import detail booking of Loading Metres refined
Surface export detail booking of Loading Metres refined
Surface export statistics upgraded

Edition 08.2001.06 (01-SEP-2001)
PSDATA control suite introduced, to control customer runtime contents
Surface import bordereau report introduced to support 'invoice back'
Initial version of surface imp/exp AMETA profit sharing introduced
The Wang VS based Boffin/VS migration tool updated to current release
The Boffin/Open Oracle 7.3 migration import sqlldr control files built
The Bishopsgate CASE PSSUITE, PSDATA, PSFUNCTN introduced
French language introduction for application screens (SPLANG)
Welcome to Phoenix International Freight Ltd in London, England
Welcome to Phoenix Freight in Paris, migrating from Boffin/VS
Introduction of outgoing facsimile from within Boffin/Open
Introduction of outgoing e-mail from within Boffin/Open
Auto-migration from Boffin/VS on Wang VS computers to Boffin/Open
Ability to extract Oracle database logical records to Excel spreadsheets

Edition 08.2001.07 (01-NOV-2001)
Boffin/Open Multiple-Language option available
First live installation in France with French language option selected
Sales invoicing style 3, twin financial columns, taxable and not-taxable
Automatic e-mail transmissions of surface export manifests
Surface Import Delivery Note self-adhesive label printing
New multi-part set printing of combined collection and delivery notes
Remote FAT-Clients supported on Virtual Private Networks (VPN)
Remote FAT-Clients supported on VPN using satellite link
HP 4100TN printers supported with French character set support
Microsoft Windows XP Client supported
Conversion of a local general ledger currency to another currency
First FAT-Clients operating over satellite link Virtual Private Network
First FAT-Clients operating over France Telcom Virtual Private Network

Edition 08.2002.01 (01-JAN-2002)
Development of Scanning and automatic archiving of bar-coded PODs
French version of the accounting daybook program (ADAYBKFR)
Introduction of the Trailer Profits job costing report (NTRITPFT)
Introduction of optional 'Value Added Tax Control by Payment date'

Edition 08.2002.02 (01-MAR-2002)
Introduction of the Boffin/Open table maintenance (PSTABLES)
Norwegian Inland door/door system updated for Language Option
German Inland door/door system updated for Language Option
South African Inland door/door system updated for Language Option
Air import Breakbulk system updated for Language Option
Air import direct shipments system updated for Language Option

Container Control system updated for Language Option
Start of Boffin/Open testing with Oracle 9i for Microsoft NT
Country directory EXCHANGE updated, EU Membership identification
VAT Analysis summary reports per EU country uses EXCHANGE
VAT reporting by Payment and Accounting month
Old-year / New Year General Ledger Trading account (NLISTALM) rec.
Customer company registration numbers now part of account details
Introduction of PSEVENTS user application run log

Edition 08.2002.03
(01-MAY-2002)
Introduction of advanced worldwide sales VAT decision processing
Start on SCO Unixware and Oracle 9i development
Single user Oracle 7.3 server running under Windows XP Home edition
Archiving logically 'deleted' customer personal accounts (ANAMARCH)
Archiving logically 'deleted' supplier personal accounts (ANAMARCH)
Start of the electronic operational cost file development
Start of SUSE Linux / Oracle 9i conversion
Start of Windows NT/2000 Server Oracle 9i conversion
Last release of Boffin/Open 08.2002.03 for Oracle 7.3
Release 2 of Boffin/Open sales lead processing
Enhanced credit limit and credit status checking during cargo booking

Edition 08.2002.04
(01-JUN-2002)
Final version of Boffin/Open for Oracle 7.3
Start of Boffin/Open for Oracle 9i for Windows NT/2000 upgrade
Completion of Laptop5, SUSE Linux, Oracle 9i and Speedy database
Testing of inbound ships manifests using EDIFACT protocol

Edition 09.2002.05
(01-JUL-2002)
Completion of the SUSE Linux 8.0 Laptop demonstrator upgrade
Completion and delivery of Boffin/Open on Oracle 9i for Windows NT4
Completion and delivery of Boffin/Open on Oracle 9i for Windows 2000
Availability of Create new personal account in (ANAMFROM)
Introduction of standard directory 'bmswpa' Marketing Records
Availability of direct link between Boffin/Open Marketing to Wordperfect
Introduction of Language Option completes 1600 or 1803 Forms
(PSEVENTS) logging of all Form 'Initiates' and 'Exits'
Speedy Overborder Services live on Windows NT/Oracle9i/Boffin/Open
Phoenix London live on Windows2000-Server/Oracle 9i/Boffin/Open
Phoenix Paris live on Windows2000-Server/Oracle 9i/Boffin/Open
Support for 'intelligent communications routers' for spooled printing
(SSLCOPY) no longer required at use sites, Oracle 9i compile referencing
Totally re-designed method of archiving the printed sales invoices etc
Ability to recall copy sales invoices & credit notes from account enquiry
Introduction of colour into financial screen 'reports', credits in red etc
Introduction of Oracle pull-down menus at top of all screen images
Ability to change screen languages in mid-logon session
Ability to send some Boffin/Open reports by email, as attachments

Ability for a program to auto-send an email, without human involvement

Edition 09.2002.06 (23-AUG-2002)
First stable release of Boffin/Open for Oracle 9i database, client/server
Mouse navigation being gently introduced
Pull down menu upgraded for sending emails
Ability to receive and process incoming EDIFACT Ships Manifests
New Unix based installations Print Queue Monitor installed
Copy sales invoices and credit notes can be called from Account Enquiry
Mouse navigation introduced on all menus
All application programs capable of sending automatic emails
Managing director Laptop support regularised
Screen language option upgrade completed
Event logging upgrade completed
Completion of SUSE Linux 8.0 server development completed
First 'Managing Director' Laptop delivered to Speedy, Johannesburg

Edition 09.2002.07 (12-OCT-2002)
Introduction of Boffin/Open Standard and Enterprise editions
Availability of Botswana SED Customs Entries for ASYCUDA
ASYCUDA++ realtime interface for Botswana Customs & Excise
New method of producing A4 Remittance Advices with attached cheques
New method of gathering intelligence on personal accounts
New online documentation from the drop-down menus
New multi-language Help text per screen field, by mouse alignment
Ability to create EXCEL spreadsheets directly from Boffin/Open database
Testing of Oracle 9iAS Web Application Server

Edition 09.2002.08 (12-DEC-2002)
Automatic and instant logoff/logon at change of accounting month
Automatic and instant logoff/logon at change of calendar date

Edition 09.2003.01 (01-JAN-2003)
New year-end personal account 'finalisation' journals (AYEAREND)
First use of Oracle database trigger in the application (DTSCODQU)
Shipper's COD control suite activated in Surface Export suite
Upgraded Value Added Tax control suite and a grand reconciliation
New surface export 'Ameta Manifest' to support Ameta cost prices
New surface import 'Ameta Manifest' to support Ameta cost prices
(PSDATA) software authorisation suite per server live
Expansion of the automatic document archiving suite (ISURCODY)
First release EDIFACT - CUSDEC automatic decoding/booking software
First iteration of www.bishopstrade.com website
Completion of the screen cursor alignment variable field help facility
Surface export electronic cost file, first release
Notepad facilities attached to integrated accounting records, throughout
Java visitor registration software added to website www.bishopstrade.com
Java logon/password software added to website www.bishopstrade.com
Ability to print client screen image from Boffin/Open drop-down menu
Customer statements, copy invoices and POD 'package'

Publishing customer statements on the user's website in realtime
Ability to place tracking information on user's website, auto & realtime

Edition 10.2003.01 (01-OCT-2003)

Formal application update from Release 09 to Release 10i includes
Online help notes for each screen variable, all programs
Online description of program by aligning screen cursor to Title-Line
Introduction of mouse navigation/selection of PF'Keys in all programs
Rationalisation of application screen sizes W78, L22
Introduction of Red for credit values and black for debit values
Removal of any old Oracle 'echo' commands
Rationalisation of commas in large value fields 9,999.00 style
Rationalisation of CONDENSE on all short-name entries
Rationalisation of Language replies Y/N = J/N in German etc
Rationalisation of drop down menus in all programs
Print screen function added to drop down menu
Rationalisation of (PSEVENTS) into all application programs
SSLCOPY sub-routines accessed using 'reference copy'
Tightened date validation throughout 01-JAN-1980 to now
Java language (only) introduction for EAA-322 Young Eagles project
Java prototype running correctly under SUSE Linux Professional 8
Java prototype running correctly under Red-Hat Linux 9
Java prototype running correctly under Microsoft Windows XP Prof.
Java prototype printing functions running correctly
Boffin/Open made available on Red-Hat Linux 9.0 Professional Enterprise
Boffin/Open made available on SUSE Linux 8 Professional
Application made to SUSE Linux for United Linux Beta Release
Expansion of the Database/Website 'close-coupling' logic
Live installation (Speedy, JNB) of the Database/Website 'close coupling'
Large upgrade and expansion of www.bishopstrade.com
Start of South African Customs EDIFACT support for CCA1 Entries
Start of testing with an Oracle database located alongside the website
Oracle 9i A/S Wireless technology testing starts Ericsson ST810 cell
Boffin/Open query from cellphone working
Boffin/Open sending automatic SMS messages when events occur
Speedy in Johannesburg, take database/website close coupling software

Edition 10.2004.01 (01-JAN-2004)

Welcome **DHL Danzas Air/Ocean Harare**, Zimbabwe of Boffin/Open 10i
Boffin/Open 10i enabled to send automatic SMS messages
Start of Boffin/Open J2EE Java programming software
Cellphone enquiry of Boffin/Open for customer balance
Cellphone enquiry of Boffin/Open surface export bookings status
About 20 other sample cellphone queries of the Boffin/Open database
Introduction of POD image processing
Introduction of sales ledger credit account application image processing
Introduction of Cheque & Remittance image processing
Sales invoice book for an accounting period, for audit

Welcome to new user Anderberg International as a Boffin/Open
Welcome to new user Speedy Overborder Services in Matsapha, Swaziland
Start of J2EE Surface Export cargo booking using only 1 screen image

Edition 10.2004.02 (01-JUN-2004)

Bishopsgate gain Oracle Licensing & Marketing champion certification
Bishopsgate gain Oracle Technical champion certification
Introduction of South African Customs Surface Export CCA1 EDIFACT
Introduction on Viewlet Farm Training video sessions
Introduction of Access database into Bishopstrade website
Upgrade Boffin/Open to Release 10 standard continues
First recursive program calls working in Boffin/OpenJ J2EE software
South African export Declarations DA550 and DA551 introduced
Automatic archiving of South African DA550/DA551/CCA1 Entries
Preview function for South African DA550/551/CCA1 Entries
Boffin/Open fully notified to Oracle Corp database, Freight Forwarding
Bishopsgate completes the Oracle Certified Partner process
Major update of www.bishopstrade.com completed
Boffin/Open 'Large screen' version in use 1200 x 1600 pixels
Alternative surface export single booking screen version completed
Introduction of 'Viewlet Builder' as a training aid
Completion of website Passport introduction
1st live Boffin.Passport completed by Ragnar Blomquist in Larvik, Norway
Completion of GSM cellphone tracking suite
Completion of the Speedy Overborder second generation website
Welcome to **DHL Danzas Lusaka, Zambia**, installing Boffin/Open 10i

Edition 10.2005.01 (01-JAN-2005)

Introduction of South African SA500 & SA501 Export Declarations
Boffin2/Open introduction using as standard 1200x1600 Pixels
DHL/Danzas Harare runs Boffin/Open as a Domain, not Workgroup
Introduction of mandatory Customer VAT Nos on sales invoices in RSA
Zimbabwe VAT legislation becomes available, Boffin/Open upgraded
Speedy, Johannesburg orders a 'World Class' expansion of Boffin/Open
Continued expansion of the www.bishopstrade.com website
Introduction of Swiftview into Boffin/Open as a standard
Introduction of PDFLib into Boffin/Open as a standard
Initial trials with HP550 handheld PC as a Boffin/Open front end
Introduction of JET API for weekly Harmonised Customs Tariff updates

Imminent

Coming soon

Table of Contents

Title page	00. 1
Confidentiality statement	00. 2
Copyright statement	00. 2
Notice on manufacturer's software & to readers	00. 3
Regular recipients of this overview	00. 4
Location of WordPerfect documents	00. 4
Detailed list of word processing documents comprising the manual	00. 5
The Boffin/Open top ten rules	00. 7
Major additions and amendments per release	00. 9
Imminent & Coming soon	00.15
Table of Contents	00.15
Schematic diagrams	00.89
Groups, Companies, Routes, Months, Groupages, Jobs	00.91
Groups, Divisions, Branches, Cost-Centres, Sections, Routes	00.92
Concept of Operational and Accounting months	00.93
Introduction	00.95
Circulation list	00.99
Chapter 1 - Boffin/Open Supply Agreement	01. 1
Introduction	01. 2
Agreement title page	01. 3
Contracting parties	01. 4
Definitions	01. 5
Objects of the agreement	01. 9
Price	01. 9
Payment terms	01.10
Proposed timescale	01.12
Access to premises	01.14
Bishopsgate delivery installation	01.15
Modifications to the specification	01.15
Extension of time for completion	01.16
Delays attributable to Bishopsgate	01.16
Force majeure	01.16
Tests on completion	01.16
Acceptance	01.17
Quality requirements	01.18
Specifications	01.18
Performance	01.19
Modifications to the software	01.20
Documentation	01.20
Training	01.22
Personnel	01.22
Warranty & disclaimer	01.23

Software support & maintenance 01.23
Assignments and sub-contracting 01.23
Ownership and License agreement 01.24
Consequential damages 01.24
Patents and copyright 01.25
Bankruptcy 01.25
Confidentiality 01.25
Publicity 01.26
Statutory and other regulations 01.26
Waiver 01.27
Settlement of disputes / arbitration 01.27
Interpretation 01.28
Whole agreement 01.28
Choice of law and submission to jurisdiction 01.28
Annexe 1 - Software license agreement 01.29
Annexe 2 - The system functional specification 01.32
Annexe 3 - New software 01.33
Annexe 4 - Hardware to be supplied by Bishopsgate 01.34
Annexe 4a - Hardware - Data-processing server 01.35
Annexe 4b - Hardware - Internet/E-mail server 01.37
Annexe 4c - Hardware - Client-PC configurations 01.39
Annexe 4d - Hardware - Min. technical configuration for Client-PCs 01.41
Chapter circulation list and history 01.

Chapter 2 - Boffin/Open Software maintenance agreement 02. 1
Introduction 02. 2
Agreement title page 02. 3
Contracting parties 02. 4
Definitions 02. 6
Object of agreement 02. 9
Price 02.11
Payment 02.13
Confidentiality 02.13
Delivery 02.14
Access to premises 02.15
Acceptability 02.15
Personnel 02.16
Termination 02.17
Settlement of disputes / arbitration 02.18
Warranty and disclaimer 02.18
Force majeure 02.18
Assignments and sub-contracting 02.19
Ownership and license agreement 02.19
Consequential damages 02.19
Statutory and other regulations 02.19
Waiver 02.20

Interpretation 02.20
Whole agreement 02.20
Choice of law and submission to jurisdiction 02.21
Signatures page 02.21
Chapter circulation list and history 02.

Chapter 3 - Boffin system structure 03. 1
Introduction 03. 2
Bishopsgate : Oracle relationship 03. 2
Background to the design 03. 2
Database technology 03. 2
Normalisation and low redundancy of data 03. 3
User corporate structure 03. 3
User group 03. 3
User companies 03. 4
Geographical divisions 03. 4
Operational branches 03. 4
Operational sections 03. 4
Routes or services 03. 5
General ledger cost-centres 03. 5
Cost centre/route relationship 03. 6
Jobs or consignments 03. 6
Concept of imports and exports 03. 6
Job numbers - general 03. 6
- Job number - structure 03. 7
- fast processing times 03. 7
- check digit verification 03. 7
- automated job number issuance 03. 7
- informative numbering 03. 7
- structured job numbers 03. 7
- branch prefix 03. 8
- section code identifier 03. 8
- rotation number 03. 8
- operational month letter 03. 9
- check digit 03. 9
- consistent numbering 03.10
- missing job numbers 03.10
- single shipments 03.10
- surface groupage 03.11
- filing of job files 03.11
- sales invoicing 03.12
- automated cost centre lookup 03.12
- printing on documentation 03.12
- as a cross reference 03.12
Sales invoice financial postings 03.12
Integration of information 03.13

Sales bulk invoicing 03.13
Personal account numbers 03.14
Ability for auto-migration from Boffin/VS to Boffin/Open 03.14
Ability to extract Boffin/Open Oracle table data to Excel spreadsheets 03.15
Appendix A - Detailed discussion on Boffin Job Numbers 03.16
- Section prefix 03.16
- Rotation number 03.16
- Operational month letter 03.17
- Check-digit 03.17
- How the check-digit is calculated 03.17
- Using section prefix 03.18
- Excluding the section prefix characters in the check-digit 03.20
Appendix B - Setup of Data extraction from Boffin/Open database 03.21
Chapter circulation list and history 03.25

Chapter 4 - Operational and Accounting Months 04. 1
Introduction 04. 2
Rule 4.1 Normalised data storage 04. 2
Computer system date 04. 2
Rule 4.2 Honest system IPL date 04. 2
Local area Networks and FAT Client system dates 04. 3
Operational months 04. 3
Rule 4.3 Statistical months exactly calendar months 04. 4
Accounting months 04. 4
Rule 4.4 Forbidden to re-open prior accounting months 04. 4
Timing of financial postings 04. 5
Rule 4.5 Overlap of statistical and accounting months 04. 5
Rule 4.6 Very late sales invoices and credit notes 04. 5
Rule 4.7 Operational staff to keep moving, regardless 04. 5
Operational month-end 04. 6
Accounting month-end 04. 6
Late overhead invoices 04. 6
Staff logoff requirement 04. 6
Isolating the accounting system 04. 7
Personal accounting month end 04. 7
General ledger considerations 04. 7
Rule 4.8 Method of age analysing personal accounts 04. 7
General ledger month-end 04. 7
Trading items - new items in old accounting month 04. 8
- old items in new accounting month 04. 8
Regular monthly General Ledger journals 04. 8
Trial Balance update 04. 9
Reconciliation of statistical and financial results 04. 9
Rule 4.9 Reconciliation of statistical and financial results 04. 9
Rule 4.10 Management Report-Pack validity 04.10
Chapter circulation list and history 04.12

Chapter 5 - Generic installation - System hardware overview 05. 1
Boffin/Open server installation summary parameter datasheet 05. 3
Boffin/Open FAT-Client-PC installation summary parameter datasheet 05. 5
Introduction 05. 6
Hardware supply 05. 6
Open- systems 05. 7
Caldera Unix Open-Server 8.0 operating system 05. 7
SUSE Linux 8.0 operating system 05. 7
Unix unification 05. 7
Advent of Microsoft NT operating system 05. 8
Microsoft NT versus Unix operating system 05. 8
Running Unix under Microsoft NT operating system 05. 9
User migration between operating systems 05. 9
Database systems 05.10
Open computer processors 05.10
Hardware documentation 05.10
Computer environment 05.11
UPS - Un-interruptible power supply 05.11
Fast Ethernet 10/100 telecommunications 05.12
Ethernet performance 05.13
Parallel communications port 05.14
Setup of remote clusters of clients and printers 05.14
Remote FAT-Client(s) & printer(s) cluster using Internet/router link 05.15
Spooled printing performance at a remote cluster 05.16
Firewall isolation 05.16
System configuration for performance 05.17
Server central processor - general 05.17
Parallel processing server computers 05.17
Multiple servers 05.18
Server central processor - general 05.18
Central processor motherboard 05.18
Central processor RAM memory 05.19
Server Virtual Memory considerations 05.19
Central processor documentation 05.20
Central processor system cabinet 05.20
Central processor separate disk drive cabinet 05.21
Server IDE or SCSI Storage device controller 05.21
Open-Systems architectures and relative performances 05.21
Intel PCI architecture 05.22
Intel PCI controller 05.22
Intel PCI controller attributes 05.23
Intel PCI controller integral SCSI-2 sub-controller attributes 05.23
Central processor upgrade from single to dual Pentium 05.23
Intel P6 processors 05.25
Performance increases 05.25
Disk systems 05.25

Disk mirroring 05.26
RAID-5 disk array option 05.27
IBM RAMAC disk array systems 05.28
Mapping storage devices under Microsoft NT 05.28
3.50" 1.44 Megabyte IBM compatible floppy disk drive 05.28
5.25" 1.20 Megabyte IBM compatible floppy disk drive 05.28
5.25" 2.10 Megabyte IBM compatible floppy disk drive 05.29
CD-ROM - Compact Disk, read-only-memory 05.29
Writeable CD-ROMs 05.30
Magnetic tape, multi-Gigabyte DAT tape cartridge 05.31
Integrated services digital network - ISDN 05.31
Telecommunications links 05.31
Telex communications controller 05.31
Facsimile policy 05.31
EDIFACT preferred EDI protocol 05.32
InterNet - Information Super-Highway 05.32
Virtual Private Networks 05.33
Automatic e-mail transmission of 'printed reports' 05.33
Microsoft NT installation 05.33
TCP/IP communications 05.34
Oracle RDBMS installation 05.34
User Oracle runtime license number 05.34
Transaction processing option - TPO 05.34
Multiple background RDBMS update sessions 05.34
Recursive application program calling 05.35
WordPerfect for Windows 05.35
Boffin/Open in foreign languages 05.35
Some details about Client-PCs 05.36
Some details about Thin Client-PCs 05.38
Master Client-PC 05.39
Client-PCs as terminals 05.39
Client-PCs main memory 05.40
Client-PC Virtual Memory 05.40
Client-PCs used for keying large supplier invoices 05.40
Client-PCs mouse 05.42
Client-PCs Keyboards 05.42
Client-PCs word processing 05.42
Laptop/Notebook computers - compatibility 05.44
Computer terminals 05.45
Keyboard configurations 05.45
Customer links 05.45
Banking link 05.45
CCS-ZA connection to Global Network Services (GNS) 05.46
H24 & D365 continuous processing 05.46
Image processing policy 05.47
Image camera 05.47

Image file format conversion software 05.48
Printing policy 05.48
Sales invoice printing 05.49
Oracle system printer 05.50
Hewlett Packard PCL5e or PCL6 compliant laser printers 05.50
Boffin/Open advanced 'Plain Paper Office' 05.52
Matrix printers policy 05.53
Matrix printers 05.53
Continuous Master & House Airway Bills (MAWBs & HAWBs) 05.53
Continuos multi-part Collection/Delivery note sets 05.53
Plain paper listings 05.54
Technical standards 05.54
Window envelopes 05.55
Hewlett Packard Laserjet3 05.55
Duplex printing on laser printers 05.55
Duplex printers 05.55
Replacing broken Boffin/Open printer(s) 05.56
Bar-codes 05.58
Bar-code swipe reader for PCs 05.58
Bar-code wand for PCs 05.59
Bar-coded sales invoices for use as Proof-of-Deliveries 05.59
Shop floor data capture terminal 05.60
Magnetic-stripe reader for PCs 05.60
Issue of 'swamping' the Database 05.61
Support for smaller offices 05.61
Operating system backup 05.61
Total backup strategy 05.62
Database backup strategy 05.62
Computer logbook 05.63
Microsoft NT Administrator logon 05.63
Password strategy 05.63
Hardware warranty 05.64
Appendices 05.67
Appendix A - Central server 05.67
Appendix B - Reconciliation of main memory 05.69
Appendix C - UPS Uninterruptible power supply configuration 05.71
Appendix D - Server processor schematic 05.73
Appendix E - Two disk system, logical configuration 05.75
Appendix F - Four disk system, logical configuration 05.77
Appendix G - Server processor logical configuration 05.79
Appendix H - Oracle platforms 05.81
Appendix I - Specialix serial port assignment 05.85
Appendix J - Hewlett Packard PCL5e and PCL6 laser printer parameters 05.87
Appendix K - Wyse-55 terminal attributes - personality 05.89
Appendix L - Remaining hardware/operating system issues 05.93
Appendix M - Remaining application software errors 05.95

Appendix N	- Microsoft NT Server Regedit settings	05.97
Appendix O	- Sample Microsoft NT user parameters	05.99
Appendix P	- Loading HP LaserJet 6L printer macros	05.101
Appendix Q	- Server export Oracle database, for backup	05.103
Appendix R	- Server total-backup procedure	05.105
Appendix S	- Server daily-backup of Database	05.107
Appendix T	- Loading form layouts to laser printers	05.109
Appendix U	- Laser printer macros	05.111
Appendix V	- Training Company laser printer macros	05.113
Appendix W	- Global laser printer macros	05.115
Appendix X	- Specific Oracle parameters	05.117
Appendix Y	- Boffin/Open function & standard keys	05.121
Appendix Z	- Worldwide postcode structures	05.125
Appendix AA	- Disk capacity reconciliation	05.127
Appendix AB	- Server & consol power requirements	05.129
Appendix AC	- Server central processor interrupt address allocations	05.131
Appendix AD	- Boffin/Open programs available in German	05.133
Appendix AE	- Boffin/Open programs available in French	05.139
Appendix AF	- Boffin/Open programs available in Norwegian	05.145
Appendix AG	- Boffin/Open programs available in Spanish	05.151
Appendix AH	- Boffin/Open programs available in English	05.157
Appendix BA	- Oracle parameters	05.161
Appendix BB	- Expanding the ESURFIND Oracle query by GRN	05.167
Appendix BC	- SCCS identification TCP/IP addresses	05.169
Appendix CC	- Open systems foundation OSI System model	05.171
Appendix CD	- Boffin/Open printing, explained	05.181
Appendix CE	- Microsoft NT Oracle Listener and associated files	05.233
Appendix CF	- Boffin/Open support for matrix printers	05.239
Appendix CG	- LaptopIII TCP/IP settings for connection to user LANs	05.243
	- Connection settings for Bishopstrade JNB development LAN	05.243
	- Connection settings for Compass, LHR LAN connection	05.245
	- Connection settings for Phoenix Paris LAN connection	05.247
	- Connection settings for Phoenix London LAN connection	05.249
	- Connection settings for Speedy Overborder Johannesburg	05.251
Appendix CH	- Installing a new Boffin/Open release from CD-ROM	05.253
Appendix CI	- Installing updated Language Option tables from CD-ROM	05.257
Appendix CJ	- Installing a backup into the optional TRAINING database	05.261
Appendix CK	- Obtaining a printed copy invoice, manually	05.267
Appendix CL	- List of Boffin/Open system numbers	05.269
Appendix CM	- List of Boffin/Open user-group numbers	05.273
Appendix CN	- List of Boffin/Open user-company numbers	05.277
Appendix CO	- Client-PC font resetting after third party software installation	05.285
Appendix CP	- Copy archived sales invoices not printing	05.287
Appendix CQ	- Applying Forms 6i Patch 4a to avoid Memory Leaks	05.289
Appendix Z	- Boffin/Open installation instructions for successive releases	05.293
Chapter circulation list and history		05.295

Chapter 5A - Actual hardware construction for the port of Beira 05A. 1
Introduction 05A. 2
Open systems 05A. 2
Oracle relational database 05A. 2
Boffin/Open source code 05A. 3
Intel based chipset 05A. 3
Operating system(s) 05A. 3
True Client/Server architecture 05A. 4
Printing services 05A. 4
Local telecommunications 05A. 4
Comparison of Windows95, Windows98 and WindowsNT Workstation 05A. 5
Word processing standard 05A. 5
Spreadsheet standard 05A. 5
Selection of MS-Office 05A. 5
E-mail standard 05A. 5
Backup medium(s) 05A. 5
Preferred manufacturer 05A. 6
Initial summary 05A. 6
Appendices 05A. 9
Appendix A - Server rack and Uninterruptible power supply 05A. 9
Appendix B - Data processing server configuration 05A.11
Appendix C - Telecommunications server configuration 05A.13
Appendix D - Client-PC specification 05A.15
Formal circulation list for this chapter and history 05A.17

Chapter 5B - Actual hardware construction for Phoenix International London 05B. 1
Introduction 05B. 2
Open systems 05B. 2
Oracle relational database 05B. 2
Boffin/Open source code 05B. 3
Intel based chipset 05B. 3
Operating system(s) 05B. 3
True Client/Server architecture 05B. 3
Printing services 05B. 4
Local telecommunications 05B. 4
Comparison of Windows95, Windows98 and WindowsNT Workstation 05B. 5
Word processing standard 05B. 5
Spreadsheet standard 05B. 5
Selection of MS-Office 05B. 5
E-mail standard 05B. 5
Backup medium(s) 05B. 5
Preferred manufacturer 05B. 6
Initial summary 05B. 7
Appendices 05B. 9
Appendix A - Server rack and Uninterruptible power supply 05B. 9
Appendix B - Data processing server configuration 05B.11

Appendix C - Telecommunications server configuration 05B.13
Appendix D - Client-PC specification 05B.15
Formal circulation list for this chapter and history 05B.17

Chapter 5C - Actual hardware construction for Phoenix Express S.A. Paris 05C. 1
Introduction 05C. 2
Open systems 05C. 2
Oracle relational database 05C. 2
Boffin/Open source code 05C. 3
Intel based chipset 05C. 3
Operating system(s) 05C. 3
True Client/Server architecture 05C. 3
Printing services 05C. 4
Local telecommunications 05C. 4
Comparison of Windows95, Windows98 and WindowsNT Workstation 05C. 5
Word processing standard 05C. 5
Spreadsheet standard 05C. 5
Selection of MS-Office 05C. 5
E-mail standard 05C. 5
Backup medium(s) 05C. 5
Preferred manufacturer 05C. 6
Initial summary 05C. 6
Appendices 05C. 9
Appendix A - Server rack and Uninterruptible power supply 05C. 9
Appendix B - Data processing server configuration 05C.11
Appendix C - Telecommunications server configuration 05C.13
Appendix D - Client-PC specification 05C.15
Formal circulation list for this chapter and history 05C.17

Chapter 5D - Actual hardware construction for Speedy Overborder, JNB 05D. 1
Introduction 05D. 2
Open systems 05D. 2
Oracle relational database 05D. 2
Boffin/Open source code 05D. 3
Intel based chipset 05D. 3
Operating system(s) 05D. 3
True Client/Server architecture 05D. 3
Printing services 05D. 4
Local telecommunications 05D. 4
Comparison of Windows95, Windows98 and WindowsNT Workstation 05D. 5
Word processing standard 05D. 5
Spreadsheet standard 05D. 5
Selection of MS-Office 05D. 5
E-mail standard 05D. 5
Backup medium(s) 05D. 5
Preferred manufacturer 05D. 6

Initial summary 05D. 6
Appendices 05D. 9
Appendix A - Server rack and Uninterruptible power supply 05D. 9
Appendix B - Data processing server configuration 05D.11
Appendix C - Telecommunications server configuration 05D.13
Appendix D - Client-PC specification 05D.15
Formal circulation list for this chapter and history 05D.17

Chapter 6 - Post-contract signing - User preparations 06. 1
Introduction 06. 2
Pre-delivery actions 06. 2
Local hardware upgrade 06. 2
Oracle software ordering 06. 3
Local operating system upgrade 06. 3
Computer location and any air conditioning 06. 3
Terminal and printer cabling 06. 4
Electrical power cabling and protected supply sockets 06. 4
Local area network (LAN) cabling 06. 4
E-mail server 06. 5
Tele-communications lines 06. 5
Modem direct telephone line(s) 06. 5
Worldwide Web internet connection(s) 06. 6
Expanding the possible four TCP/IP links 06. 6
Facsimile line(s) 06. 6
Telex line(s) 06. 6
X.25 IPSS connection(s) 06. 6
SITA mode 'A' connection 06. 7
SITA mode 'B' connection 06. 7
Links to customs computer(s) - DTI 06. 7
Links to agents 06. 7
Links to customers 06. 7
United Kingdom customs tariff support 06. 7
South African customs tariff support 06. 7
Home country Customs tariff support 06. 7
Stationery ordering - general 06. 7
Plain listing paper 06. 8
Company headed A4 invoicing paper 06. 8
Computerised cheques and/or bank transfers 06. 8
Continuous Neutral Master Air Waybills (MAWB) 06. 8
Continuous Neutral format House Air Waybills (HAWB) 06. 9
Airline MAWB numbers 06. 9
Permission to use Neutral MAWBs in South Africa 06. 9
Backup tape supply 06. 9
Laser printer cartridges 06.10
Proprietary software 06.10
Proprietary software physical licenses 06.11

Hardware warranty 06.11
Server construction 06.11
Hardware re-construction at Bishopsgate 06.12
Un-interruptible power supply 06.12
Installation power supply 06.12
Un-interruptible power UPS supplies 06.12
Ordinary ring main 06.13
Delivery of all installation components 06.13
Policy on personal account short names 06.14
Policy on personal account sort codes 06.14
Default values of directors 06.15
Default values of credit controllers 06.15
Default value of personal ledger sections 06.15
VAT/Sales Tax registration number to Bishopsgate 06.16
Clarification of VAT/Sales Tax charging rules 06.16
Customs deferment number to Bishopsgate 06.17
IATA license number to Bishopsgate 06.17
Consideration of alternate personal accounts 06.17
Consideration of related personal accounts 06.17
Agreement on system, group and company short names 06.18
Consideration of optional electronic brought-forward data 06.18
Consideration of account number issuing, manual/auto 06.19
Adding user-group to Bishopsgate system table 06.19
Adding user-company to the Bishopsgate system table 06.19
Possibility of linking Bishopsgate LaptopII to the system 06.20
Availability of national postcodes 06.20
Boffin Ocean-vessel directory 06.20
Boffin Ocean-port directory 06.21
Boffin Town-names directory 06.21
Chapter circulation list and history 06.23

Chapter 7 - Hardware assembly, software installation, database setup 07. 1
Introduction 07. 2
Bishopsgate development under Sco-Unix and Microsoft NT Server 07. 2
User installation, file-system standards 07. 2
Boffin/Open basic file-system convention 07. 3
Leaving space for expansion 07. 3
Oracle disk space allocation 07. 4
Number of databases 07. 4
Bishopsgate policy on database tables 07. 5
Building customer server installations 07. 5
Bishopsgate development LAN and LaptopIII connection 07. 6
Delivery of system and using the open-system LaptopIII 07. 6
Oracle documentation 07. 6
Full documentation of installation processes 07. 6
Significant cost of building servers and Client-PCs 07. 7

Adding User-Group to Bishopsgate development system 07. 7
Adding User-Companies to Bishopsgate system 07. 7
Checking the 'bms' logon is contained within the PEOPLE table 07. 7
Philosophy of initial Boffin/Open data-load 07. 8
Bishopsgate's Microsoft NT Server building exercise 07. 9
Server upgrade and Boffin/open installation 07. 9
Server hardware upgrade 07. 9
FAT-Client-PCs 07. 9
Server installation process 07.10
Bishopsgate installation of Oracle and Boffin/Open 07.10
Microsoft NT 4.0 Server and Oracle product - required versions 07.10
Oracle SQL*Forms upgrade 07.10
Oracle SQL*Report upgrade 07.11
Oracle Client/Server configuration 07.11
Differences between Oracle 7 Workgroups and Oracle 7 Server 07.12
Features in BOTH Oracle 7 Workgroup Server and Oracle 7 Server 07.12
Key differences between Oracle 7 Workgroup and Oracle 7 Server 07.12
Client/Server operation - options 07.13
Bishopsgate's Microsoft NT 4.0 development server 07.14
Microsoft Windows'95 equipped Client-PCs 07.14
Required Oracle 9.0.3 software 07.14
Oracle software modules and version numbers 07.15
Required Bishopsgate Boffin/Open software 07.15
Alternative chapter 7 for Microsoft NT Server based installations 07.15
Server construction 07.16
Network server reconstruction 07.16
Client-PCs upgrade 07.16
Un-interruptible power supply 07.17
Disk drive usage summary 07.17
Expanding Oracle DASD disk allocation 07.17
Oracle export disk directory 07.18
Assembly and testing of the system core 07.18
Logically attaching the Bishopsgate LaptopII to the server 07.18
Mapping the server to the LaptopII 07.19
Client-PC names and configuration(s) 07.19
Networked printers 07.19
Network TCP/IP addresses in use 07.19
Assembly and testing of remaining components 07.19
Installing Microsoft NT Version 3.1 07.20
Initial IPL of software load 07.20
Microsoft NT 4.0 Server setup 07.23
- Computer name 07.23
- Language 07.23
- Configuration setup 07.23
- Setup local printer 07.24
- Network adapter card detection 07.24

Network settings 07.24
Domain/workgroup settings 07.25
Microsoft icon menus 07.25
Administrator password 07.25
Local account setup 07.25
Virtual memory 07.25
Setup applications 07.25
Date and time 07.25
Emergency repair diskette 07.25
Re-IPL 07.26
Installing Microsoft NT Server version 4.0 upgrade 07.26
Licensing details 07.28
Computer name 07.29
Type of installation 07.29
Administrator's account 07.29
Microsoft internet server 07.30
Tele-communications protocols 07.30
Microsoft NT Server setup 07.30
TCP/IP properties 07.31
Network bindings 07.31
Date and time properties 07.31
Display properties 07.31
Emergency repair diskette 07.32
Re-IPL the new server system 07.32
Loading Oracle Release 9.0.2.0.0 Workgroup server 07.32
Language 07.33
Oracle installation settings 07.33
Oracle 7 workgroup server 07.33
Oracle documentation 07.33
Installation notes 07.34
ODBC administrator utility 07.34
Oracle7 ODBC setup 07.34
Oracle network manager 07.35
Oracle SQL*Net easy configuration 07.37
Installing Oracle Developer2000 running release 1.3.2 for NT 07.38
Hard disk requirement 07.39
Closing down Oracle and it's processes 07.39
Oracle login information 07.39
Oracle instance manager 07.40
Default database - Oracle instance manager 07.40
Oracle listeners and other Oracle tasks 07.40
Completion of Oracle shutdown 07.41
Oracle Developer/2000 CD-ROM 07.41
Runtime installation 07.41
Oracle Developer/2000 auto-installation 07.41
Installation language 07.41

Oracle installation settings 07.42
Software asset manager 07.42
SQL*Net protocol adapters 07.43
Directory selection 07.43
Oracle local system default font 07.43
Oracle network manager 07.44
Move Network Manager's definition to active location 07.44
Oracle SQL*Net easy definition 07.44
Oracle local system default font 07.44
Completed installation 07.44
Creating file-spaces on server new hard disk 07.44
Creating the three file-systems for Boffin/Open 07.45
Creating the production Rollback segments 07.47
Creating a user named 'bms' 07.48
Editing initial Oracle database parameters 07.49
Keyboard mapping and Resolution files 07.49
Boffin/Open logical printer definition files 07.49
Installing server Boffin/Open software 07.50
Creating Boffin/Open empty tables in BMSDATA table-space 07.51
Generate the initial Boffin/Open database tables 07.51
Import brought-forward database on to the target machine 07.51
Run 'bmsalter8.sql' script to apply database design changes 07.51
Non-standard server building 07.51
Embryo server now contains a rudimentary Boffin/Open database 07.52
Import enough Boffin/open data to facilitate a Boffin/Open logon 07.52
Produce a list of Boffin/Open tables, as an installation checklist 07.52
Logically empty some Boffin/Open tables 07.52
Viewing the individual field names in Boffin/Open tables 07.52
Reset some Boffin/open table/record sequence base numbers 07.53
Manually edit some tables/records to facilitate initial logon 07.53
Change the Boffin/Open installation number from template to live 07.53
Change the Boffin/Open user-group name from template to live 07.53
Change the Boffin/Open user-company control records to live 07.53
Change the user-division name from template to live initial value 07.54
Edit user-branches dropping brought forward except training 07.54
Edit user-sections drop brought-forward, except training 07.54
Change installation number on brought-forward menus 07.55
Clear Boffin/Open security table, except for 'bms' entry 07.55
Retain the Boffin/Open internal options table contents 07.55
Edit workstation defaults directory 07.55
Consider the Boffin/Open menu system and import a good one 07.55
System capable of Boffin logon under Group/Co 07.56
Two lists of Boffin/open tables 07.56
Final Bishopsgate edit of Boffin/Open tables 07.56
Careful application 07.57
Assumed defaults for ensuing session 07.57

Oracle sequence numbers 07.57
Final Bishopsgate edit of printers control table 07.57
Creating Oracle-users
Create Oracle public synonyms for all data tables
Create Oracle public synonyms for sequence Nos tables
Final edit of exchange-rate directory (EXCHANGE) 07.57
Final edit of sales/bough ledger master file (ANAMES) 07.58
Final edit of worldwide town name directory (SYSTOWN) 07.58
Final edit of user-groups table (GROUPS) 07.58
Final edit of user-division table (DIVISION) 07.59
Final edit of user-branch table (BRANCHES) 07.59
Final edit of general ledger cost centres (COSTCENT) 07.59
Final edit of user-companies table (COMPANYS) 07.59
Creating control personal accounts (SPANAMES) 07.60
Final edit of user-sections table (SECTIONS) 07.60
Final edit surface import route control table (ISURCNTL) 07.60
Final edit surface export route control table (ESURCNTL) 07.61
Final edit of air import route control table (IAIRCNTL) 07.61
Final edit of air export route control table (EAIRCNTL) 07.61
Final edit RSA National traffic route control (VECNTL) 07.61
Final edit accounting transaction types (TYPES) 07.62
Final edit operational month in each module (Various) 07.62
Final edit of current accounting month (OPENEND) 07.62
Good time to effect an initial database export and take a break 07.63
Bishopsgate second setup session and discrete table signing-off 07.63
Final check-out of Boffin tables before user use of the system 07.64
Bishopsgate resetting the authorised personal account currencies 07.64
Boffin standard method of storing exchange rates per country 07.65
Possibility of setting up initial exchange rates at this early stage 07.65
Switching on additionally personal accounting currencies 07.66
Setting up the personal control accounts, each authorised currency 07.66
Bishopsgate setting up the Boffin/Open installation control file 07.67
Final edit of the (GROUPS) table 07.67
Final edit of the (DIRECTOR) table 07.68
Final edit of the (CONTROLR) table 07.70
Final edit of the (DIVISION) table 07.70
Final edit of the (LEDGSECT) table 07.71
Final edit of the (COMPANYS) table 07.71
Final edit of the (COSTCENT) table 07.72
Final edit of the (BRANCHES) table 07.72
Final edit of the (SPMENU) table 07.73
Foreign language menu support 07.
Security system, built into menu system 07.
Suite categories; importance in menus 07.
Delete unwanted Boffin/Open tables 07.75
Boffin/Open tables to be supplied ‘empty’ 07.75

Boffin/Open tables to be supplied 'fully' coded 07.76
Initial load of Boffin/Open program files 07.76
Creating Oracle users 07.76
Disk access time check 07.76
Initial startup of Boffin/Open 07.77
Create Oracle 'Public' synonym for all data tables 07.77
Create Oracle 'Public' synonym for all Sequence Numbers 07.77
(SYSMENU) - Suite categories; importance in menus 07.77
- Foreign language menu support 07.78
- Security built into menu system 07.78
Edit the Server workstation-defaults (WSDEFLTS) 07.79
Appendices 07.147
Appendix A - Microsoft NT Server installation parameters 07.147
Appendix B - Authorised staff logons 07.149
Appendix C - Tables physically dropped from database 07.155
Appendix C1 - Boffin/Open tables supplied 'empty or coded 07.157
Appendix C2 - Boffin/Open tables copied from ssldev 07.173
Appendix C3 - Boffin/Open 'installi' script 07.177
Appendix D - Group companies 07.183
Appendix E - Group general ledger Cost Centres 07.185
Appendix F - Group branch codes 07.187
Appendix G - Group section codes 07.189
Appendix H - Group export route codes 07.190
Appendix I - Group import route codes 07.193
Appendix J - Authorised countries and customs codes 07.195
Appendix J1 - Authorised currencies 07.201
Appendix K - English list of Boffin sales-charge names 07.203
Appendix K1 - French list of Boffin sales-charge names 07.205
Appendix K2 - German list of Boffin sales-charge names 07.207
Appendix K3 - Norwegian list of Boffin sales-charge names 07.209
Appendix K4 - Spanish list of Boffin sales-charge names 07.211
Appendix L - English list of Boffin function parameters 07.213
Appendix L1 - French list of Boffin function parameters 07.215
Appendix L2 - German list of Boffin function parameters 07.217
Appendix L3 - Norwegian list of Boffin function parameters 07.219
Appendix L4 - Spanish list of Boffin function parameters 07.221
Appendix M - General ledger reallocation cost centres 07.223
Appendix M1 - (NLPERIOE) results of overhead reallocation 07.225
Appendix N1 - Style 1 Profit/Loss report line numbers 07.227
Appendix N1A - Style 1 German profit/loss line numbers 07.229
Appendix N1B - Style 1 English profit/loss line numbers 07.231
Appendix N2 - Style 2 Profit/Loss report line numbers 07.233
Appendix N3 - Style 3 Profit/Loss report line numbers 07.237
Appendix N4 - Style 4 Profit/Loss report line numbers 07.237
Appendix N5 - Style 1 Balance Sheet line numbers 07.239
Appendix N6 - Style 2 Balance Sheet line numbers 07.242

Appendix N7 - Style 3 Balance Sheet line numbers 07.245
Appendix N8 - Style 4 Balance Sheet line numbers 07.247
Appendix O - Financial ledgers transaction type codes 07.249
Appendix P - Management Accounting traffic type codes 07.251
Appendix Q - Financial ledgers record source codes 07.261
Appendix R - Menu suite categories & security codes 07.271
Appendix S - Boffin/Open tables as at Release 06.97.01 07.273
Appendix T - SQL*Scripts written specifically for the user 07.287
Appendix U - Database tables creation script 07.289
Appendix V - Bishopsgate new installation checklist 07.291
Appendix W - Formatting raid-5 disk system formatting 07.293
Appendix X - Boffin/Open Bar-Code styles 07.297
Chapter circulation list and history 07.299

Chapter 8 - Setting up a new subordinate site 08. 1
Introduction 08. 2
Oracle 9i and Remote Thin-Client support 08. 2
Phoenix Freight International setup 08. 2
Phoenix Castleford business setup 08. 2
Phoenix Castleford computer setup 08. 2
Phoenix Basildon business setup 08. 3
Phoenix Basildon computer setup 08. 3
Phoenix Freight accounting and management setup 08. 3
Phoenix Castleford common data with Basildon 08. 4
Phoenix Castleford Customer/Supplier master file ANAMES 08. 4
Phoenix Castleford Exchange Rates 08. 4
Resilience of two installations 08. 4
Phoenix operational cost centres 08. 5
One Centre's exports are another Centre's imports 08. 5
Dolphin freight imports from the Far East 08. 5
Noting of serial numbers of all hardware items 08. 6
Noting of license numbers for any proprietary software 08. 6
Stationery for local use 08. 7
Logo-headed and 'termed' stationery for invoices & docs 08. 7
Plain A4 plain paper for listings 08. 7
Universal air waybill stationery 08. 7
Supply of 'window' envelopes 08. 7
Microsoft Server 2000 installation 08. 8
Logons for all main and subordinate installation staff 08. 8
Telecommunications TCP/IP installation 08. 9
Telecommunications links between Bishopsgate and Speedy 08. 9
Login-on over TCP/IP to master installation 08. 9
Oracle installation 08. 9
Embryo subordinate Oracle relational Database creation 08. 9
Importing copy of master site relational Database 08.10
Transmission of latest customer/supplier master file 08.10

Boffin/Open load library 08.10
Necessity to run compatible releases of Boffin/Open 08.11
Remaining disk space before any cargo bookings 08.11
Preparation of alphabetic list of Boffin/Open tables 08.11
Preparation of alpha list of Boffin/Open sequence tables 08.12
Clearing some Boffin/Open Database tables 08.12
Necessity for VPOOL and VDPOOL embryo tables 08.12
Setup of logical printer(s) 08.13
Changing the Boffin/Open system number 08.13
Considering each Boffin/Open table 08.13
Initial logon to local Boffin/Open installation 08.14
SPCPU switches 08.14
Printers setup 08.14
Boffin/Open system defaults 08.14
Boffin/Open workstation-defaults 08.15
Boffin/Open operational routes/rates 08.15
Updating master site with any new codes and/or records 08.16
Zeroising personal account balances 08.16
Additional specialist software on local menus 08.16
Deletion of any un-wanted Boffin/Open software from menus 08.17
Local backup procedure(s) 08.17
Incoming 'BOG' freight bookings from subordinate site 08.17
Necessity to decode some names before transmission 08.18
Origin sites sending cargo bookings to subordinate site 08.19
Dial-up telephone connection, transmit times 08.19
Printing of 'Inbound Cargo Notification' 08.19
Notification of sales invoicing already effected 08.20
Updating of shipment notepad information 08.20
Inbound 'pending booking' monitor 08.20
Reason for & necessity of amending all incoming bookings 08.21
Linking Boffin/Open bookings at participating sites 08.21
Passing-back of shipment notepad information 08.22
Proof of delivery processing 08.22
Copying sales/purchase ledger master file from main site 08.22
Policy of creating and amending customer/supplier records 08.22
Invoicing prior-year cost files with Boffin/Open 08.23
Accepting prior-year trading costs within Boffin/Open 08.23
Accepting prior-year overhead costs within Boffin/Open 08.24
Passing accounting data to main accounting-centre 08.24
Updating subordinate site exchange rates 08.24
Updating of Subordinate site job costing, subset of ledgers 08.25
Ability of remote logging-on 08.25
Chapter circulation list and history 08.27

Chapter 9 - Computer room processes 09. 1
Introduction 09. 2

This chapter, intention 09. 2
Text convention 09. 2
Boffin variations 09. 3
Data conversion 09. 3
Computer installation 09. 3
Computer hardware & operating system 09. 4
Continuous operation 09. 4
Some details about Client-PCs 09. 4
Some details about Oracle 9i and Thin-Client–PCs 09. 5
Screen languages 09. 6
Printing reports 09. 6
Print file naming convention 09. 7
Optional discrete logical printer for Accounts copy invoices 09. 8
Duplex printing support 09. 8
Boffin reports for importing into Excel (and other) spreadsheets 09. 8
Automatic electronic print archiving 09.10
Human operators, changing their own password 09.11
Authorised users - Private spreadsheets, Word Processing etc 09.12
Multiple human logons 09.12
Boffin menus 09.13
Menu interrupt 09.13
Application suite access security 09.14
Changing user-company 09.15
Computer room discipline 09.15
Modem link 09.15
Server security keys 09.16
Master terminal screen saver 09.16
Rebuilding the Boffin/Open Database 09.16
Oracle Database backup 09.17
Daily Oracle application data backup 09.17
Entire Server backup 09.18
Emergency diskettes 09.19
Emergency Boot diskette 09.19
Emergency Root File diskette 09.19
Appendix A - Log of Server shutdowns 09.21
Appendix B - Backup log of Boffin/Open Database backups 09.23
Appendix C - Backup log of Total Server backups 09.25
Appendix D - Log of (DAYEND) runs 09.27
Appendix E - Server root directory 09.29
Appendix F - Exporting Boffin database as backup & copying to backup 09.31
Appendix G - Example - Importing two tables into a database 09.35
Appendix H - Installing new and updated programs received via e-mail 09.37
Appendix I - Installing a new HP4000NT printer on a LAN 09.41
Appendix J - Installing a new release of (SSLCOPY.FMB) into database 09.49
Appendix K - Generating replacement sales invoice after hardware failure 09.51
Appendix L - Installing the initial Boffin/Open Y2K release 09.55

Appendix M - Updating the TRAINING database 09.61
Appendix N - Setting up a new user of the Boffin/Open application 09.67
Appendix N1 - Authorised Boffin/Open logon-Ids 09.73
Appendix O - Installing a new Boffin/Open release into a LAN environment 09.75
Appendix O1 - Automatic installation new Boffin/Open release (cbeirlse.bat) 09.79
Appendix O2 - Installing occasional Boffin/Open upgrades around a LAN 09.81
Appendix P - Release & installation notes for Boffin/Open 09.2002.04 **09.83**
Chapter circulation list and history 09.83

Chapter 10 - Accounting system handover 10. 1
Introduction 10. 2
Timing of transition 10. 2
Timing of closing of the old accounting system 10. 2
Timing of closing the old operational system 10. 2
Closing the old accounting system 10. 3
Old sales items posted to the new ledgers 10. 3
Accepting old supplier invoices and credit notes 10. 4
Complex supplier invoices and/or credit notes 10. 4
Accepting late overhead invoices 10. 4
Extracting old-period financial items from new-period result 10. 5
Controlling the transfer of old-year items 10. 5
Boffin/Open new-year result 10. 5
Accounting month for personal account opening balances 10. 5
Bringing forward customer personal account balances 10. 6
Entering brought forward customer balances 10. 6
Entering brought forward supplier balances 10. 9
Opening balance-sheet balances 10. 0
Consideration of parallel running
Chapter circulation list and history 10.

Chapter 11 - On the first morning 11. 1
Introduction 11. 2
System date 11. 2
Install latest Boffin/Open load library 11. 2
Install Boffin/Open latest laser form designs 11. 3
Stationery check for DataTrade P6 laser printers 11. 3
Exchange rates 11. 3
Airline IATA weekly rate of exchange 11. 5
Customs current rates of exchange 11. 5
Accruals references 11. 5
Current accounting month 11. 6
Complete set of general ledger accounts 11. 7
Complete the system defaults 11. 8
Complete the workstation defaults 11. 8
Complete the bank account static details 11. 9
Tailoring the Boffin/Open sales charge headings 11. 9

Check operational month is correct 11.10
Check all route control records 11.10
Check invoice numbers and general ledger journal number starts 11.10
Run DAYEND to clear any rubbish brought-forward 11.11
Backup the Database 11.11
Backup the entire system 11.12
Chapter circulation list and history 11.

Chapter 13 - Boffin/Open system parameters 13. 1
Introduction 13. 2
Installation processor number 13. 2
Central processor numbers 13. 3
Creation of additional installation, screen 1 13. 4
CPU number 13. 6
CPU title 13. 7
CPU address 13. 7
Database identifier 13. 7
User-group 13. 7
Licensed concurrent-users 13. 7
Accounts 13. 8
Accounts CPU 13. 8
Reserved message 13. 8
DTI Y/N 13. 9
Additional ID processing? 13. 9
Split system 13.10
Include decode on operational telexes 13.10
UK 1988 HSTARIC support 13.11
Operational accrual accounting Full/Partial/None 13.11
Accrual job number root 13.12
Automated ID reference root 13.12
Accounts CPU if pseudo-system 13.12
Copy incoming telexes to system number 13.13
Creation of additional installation, screen 2 13.14
Networked master exchange rates updated by CPU No 13.14
Trading accounting month update s/1/2 13.15
Available screen languages 13.15
Norwegian tariff support 13.16
Teambok link 13.16
Customer specialist A4 invoicing module 13.16
Boffin/VS (NAGCJRNL) authorisation 13.17
Real-time trial balance update 13.17
Accounts copy sales invoices required 13.17
File copy invoices required 13.
Call 'LOGOFF' on exit from MAINMENU 13.18
Relate consol details to original job 13.18
Allow DTI lodge restrictions to Logon-ID 13.18

Creation of additional installation, screen 3 13.20
Full air consol booking-in support 13.20
Use 'PEOPLE' file for access rights 13.21
Bonded stock system 13.21
Real-time missing invoice number update 13.21
Automatic archive of MAWBs 13.22
Commission subsystem 13.22
Multi-currency bank account support 13.22
Stop bookings over credit limit 13.23
Boffin/Open software license expiry date 13.23
Boffin/Open software maintenance renewal date 13.23
RDBMS version number 13.24
Telex facilities switch 13.24
Fax facilities switch 13.24
Sales lead software support 13.25
Profit by type-of-expense support 13.25
Support for connection to local haulier 13.25
Creation of additional installation, screen 4 13.28
Openpad support 13.28
Inland distribution support 13.29
Processor model 13.29
Bishopsgate software-tier allocation 13.29
Bishopsgate software-tier percentage 13.30
Job-index support switch 13.30
Automatic job-index update switch 13.30
WVP laser printer support 13.31
Kenya customs support 13.31
VS Boffin style booking-in screens 13.32
Automatic update of account numbers 13.32
Auto-accrue for each MAWB 13.32
Wholesale 'this' airport IATA code 13.33
Payable/receivable meaning 13.33
Pro-forma 13.34
Establishing a FreightNet network 13.34
Physical and logical links 13.35
Retrospective network installation 13.35
Sample FreightNet network chart 13.36
Description of sample network chart 13.37
Definition of DTI Links 13.38
Defining a shadow Boffin/Open system 13.39
Appendix A Page 1 of 4 Boffin/Open System Parameters 13.
Page 2 of 4 Boffin/Open System Parameters 13.
Page 3 of 4 Boffin/Open System Parameters 13.
Page 4 of 4 Boffin/Open System Parameters 13.
Chapter circulation list and history 13.

Chapter 14 - Approaching Boffin and defaults 14. 1
Introduction 14. 2
Computer hardware 14. 2
Operating system 14. 2
Boffin environment 14. 3
Policy on short names and references that can be used in logical searches 14. 3
SPCPU Boffin configuration 14. 4
System defaults 14. 4
Workstation defaults 14. 4
Operator's runtime environment 14. 5
Defaults good ideas 14. 5
Glossary of important facts and phrases 14. 7
Introduction 14. 8
Asterisks in screen images 14. 8
Home currency 14. 8
Group currency 14. 8
Defaults accessed at logon time 14. 8
Nominal Ledger : General Ledger 14. 9
Chapter circulation list and history 14.11

Chapter 15 - Boffin system defaults 15. 1
Introduction 15. 2
Suite summary 15. 2
This chapter, intention 15. 2
Text convention 15. 2
Boffin variations 15. 3
Booking volumes 15. 4
Data conversion 15. 4
Computer installation 15. 4
Computer hardware & operating system 15. 4
Continuous operation 15. 4
Some details about Client-PCs 15. 5
Some details about Oracle 9i and Thin-Client–PCs 15. 6
Screen languages 15. 7
Printing reports 15. 7
Print file naming convention **15. 8**
Optional discrete logical printer for Accounts copy invoices 15. 8
Duplex printing support 15. 9
Boffin reports for importing into Excel (and other) spreadsheets 15. 9
Automatic electronic print archiving 15.11
Human operators, changing their own password 15.12
Authorised users - Private spreadsheets, Word Processing etc 15.12
Multiple human logons 15.13
Boffin menus 15.13
Menu interrupt 15.14
Application suite access security 15.14

Bishopsgate responsibility 15.15
Multiple servers 15.15
Layered systems 15.16
Location of defaults 15.16
Foreign language support 15.17
New fields 15.17
System defaults access 15.18
System defaults parameters 15.20
Standard Boffin-user or with Agency 15.20
If with Agency are sales invoices to be split in general ledger 15.20
Include section prefix in check digit calculation 15.21
Check-digit must be included on job-number for accounts 15.22
Currency accounting required 15.22
VAT at point of import support 15.23
Credit Note suspense account option 15.23
Bought ledger invoice registration 15.24
Bulk invoicing 15.25
Record SMF statistics 15.25
Accounts available on the system 15.25
General ledger standard-journal support 15.26
Print VAT analysis on sales invoices 15.26
Print file copy documents 15.26
Print accounts copy invoices 15.27
Screen 2. 15.28
System screen title 15.28
Home currency short name 15.28
Home country (physical) 15.29
Oldest General Ledger year 15.29
Oldest trial balance year 15.30
Financial Year - from-month 15.31
Financial year To-month 15.31
Statement run sequence alphabetic or numeric 15.31
Call CALLMTCH automatically 15.32
Age sales ledger items on matching 15.32
Canvassing required on operational invoicing 15.32
Two part paper on invoicing 15.33
Keep DAYEND audit files for N months 15.33
Number of months accounts allocated to salesperson 15.34
Retain import/export route statistics for N months 15.34
Retain inland distribution statistics for N months 15.34
Accounting month for accounts brought-forward 15.35
Screen 3 - General information regarding general ledger a/cs 15.36
B/S Sales ledger control account 15.36
Sales ledger control cost centre 15.37
B/S Bought ledger control account 15.37
Bought ledger control cost centre 15.37

B/S VAT control account (sales ledger) 15.38
VAT control account cost centre 15.38
B/S VAT control account (Bought ledger) 15.38
VAT control cost centre 15.39
B/S general ledger control account for (NLBKTSFR) 15.39
B/S general ledger control account for (NLPRTSFR) 15.40
B/S general ledger control account for (NLOVRADJ) 15.41
B/S general ledger control account for (AWRITEOG) 15.43
O/H general ledger control account for Exchange differences 15.43
Cost Centre for automatic differences in exchange 15.44
TRD general ledger account for trading revenue - normal 15.44
TRD general ledger account for trading revenue - IDs 15.45
TRD general ledger account for trading revenue - Group accounts 15.45
TRD general ledger account for trading expense - normal 15.45
TRD general ledger account for trading disbursement - IDs 15.46
TRD general ledger account for duty/vat sales control 15.46
TRD general ledger account for duty/vat purchases control 15.47
B/S general ledger control of Sales/Bought transfers and journals 15.47
B/S general ledger control account for general ledger transfers 15.48
B/S general ledger control of personal a/c Opening balances 15.48
B/S general ledger control for current year profits 15.49
Screen 4 - more general ledger control accounts 15.50
TRD general ledger account for operational accruals 15.50
Cost centre for balance sheet trading accruals 15.50
B/S general ledger control account for trading accruals 15.51
General ledger control account for monthly transfers 15.51
General ledger control a/c for AACRCLOS write-offs to P&L 15.52
General ledger control a/c for AACRCLOS write-offs to B/S 15.52
General ledger control a/c for write-offs from B/S (AACRCLOT) 15.53
Profiting transfer control a/c (APROFIT) 15.53
Work in progress general ledger a/c (NWIPJRNL) 15.54
Home currency allowed accruals difference for matching 15.54
Home currency allowed accruals difference percentage 15.55
Allocation of over and under accruals 15.55
Screen 5 - General information 15.56
Acceptable job costing month letters 15.56
Late manual entries to be blocked or journaled 15.57
Method of blocking the late trading items 15.57
Overhead accounting - general background 15.58
Extended overhead and accrual option 15.58
Oldest open overhead accounting month 15.59
Method 1/2 15.60
Oldest open accounting month for operational accruals 15.60
Screen 6 - Customer/supplier credit status codes & Credit Limits 15.62
Customer credit - Background information 15.62
Sales ledger credit status codes and meanings 15.62

Default new customer credit status 15.63
Sales ledger default terms-of-trade on account creation 15.63
Sales ledger default terms-of-trade credit period 15.63
New customer default credit limit 15.63
Background information on Credit status in Bought Ledger 15.63
Supplier payment status codes 15.64
Default new supplier credit status code 15.64
Bought ledger default terms-of-trade on account creation 15.64
Bought ledger default terms-of-trade credit period 15.64
Screen 7 - VAT control parameters 15.66
Sales input/printing VAT classes 15.66
Operational invoicing VAT classes 15.66
Screen 8 - Foreign currency conversion tolerances 15.68
Currency conversion value error 15.68
Currency conversion percentage error 15.68
Month-end additional debtors lists 15.68
Screen 9 - Additional parameters 15.70
Cartage insurance schedules 15.70
Master Air Waybill return option 15.70
T-Form register option 15.70
Exchange rate history option 15.70
Bank account / Cashbook reconciliation option 15.72
Screen 10 - Default common petty cash general ledger accounts 15.73
Default petty cash nominal ledger accounts 15.73
Screen 11 - Word processing defaults 15.74
Accounts copy invoice processing 15.74
Appendix A - Boffin/Open computer environment schematic 15.75
Appendix B - Boffin/Open credit status action codes 15.77
- Table of Boffin/Open credit status action codes 15.78
Chapter circulation list and history 15.81

Chapter 16 - Boffin workstation defaults - WSDEFLTS 16. 1
Introduction 16. 2
Bishopstrade responsibility 16. 2
Multiple servers 16. 2
Layered systems 16. 2
Contents and location of defaults 16. 3
Foreign language support 16. 4
New fields 16. 4
Creating the initial table 16. 4
Accessing the (WSDEFLTS) program 16. 4
When can the table be amended 16. 5
Contents of table 16. 5
The basic rule 16. 5
The SYSTEM record 16. 5
Workstation number 16. 6

Group user name 16. 6
Menu number 16. 6
PF'Key (0-16) 16. 6
Company short name 16. 6
Bypass the initial (MAINMENU) screen 16. 7
Bypass the second (MAINMENU) screen 16. 7
Clear to list marketing reports 16. 7
Is this user allowed to see system notes 16. 8
Authorise job booking credit violations 16. 8
Automatically spool the reports 16. 8
Customer creation status default 16. 9
Supplier creation status default 16. 9
New charges account - Director short name 16. 9
New charges account - Credit controller short name 16.10
New charges account - Representative short name 16.10
New charges account - Ledger section short name 16.11
New duty account - Director short name 16.11
New duty account - Credit controller short name 16.11
New duty account - Representative short name 16.11
New duty account - Ledger section short name 16.11
Save the partly encoded SYSTEM record 16.11
PF'4 Set print directory 16.12
PF'4 Create invoice copies 16.12
PF'4 Copy invoice print directory 16.12
PF'5 Customs Entries 16.13
PF'5 Customs Entries - Tariff desc for Customs Entries (not SAD) 16.13
PF'5 Customs Entries - Tariff cargo description for Customs Entries (SAD) 16.13
PF'5 Customs Entries - Default Customs-Entry Pro-Forma 16.13
PF'5 Customs Entries - For import SAD default, SAD as continuation 16.14
PF'5 Customs Entries - For import SAD delete copies 1 - 4 16.14
PF'5 Customs Entries - For import SAD delete copies 5 - 8 16.14
PF'5 Customs Entries - For import SAD produce 'extra' Transit copy 16.14
PF'5 Customs Entries - To produce C130 (Release Note), plain paper SAD 16.15
Save the partly encoded SYSTEM record 16.15
PF'9 restricted Branch/Section/Routes 16.15
PF'10 Restricted companies 16.15
PF'14 Printer defaults 16.15
Appendix A - Boffin - Workstation default access 16.17
Appendix A1 - Housekeeping menu 16.18
Appendix A2 - Workstation defaults 16.19
Appendix A3 - Workstation defaults - F'14 Print directory 16.20
Appendix A4 - Workstation defaults - F'5 Customs Entries 16.21
Appendix A5 - Workstation defaults - F'9 Restricted Br/Sect/Routes 16.22
Appendix A6 - Workstation defaults - F'14 Printer defaults 16.23
Appendix B - Boffin printed reports and their logical printer allocation 16.24
Chapter circulation list and history 16.25

Chapter 17 - Cash Office 17. 1
Introduction 17. 2
Suite summary 17. 2
This chapter, intention 17. 3
Text convention 17. 3
Boffin variations 17. 4
Booking volumes 17. 5
Data conversion 17. 5
Computer installation 17. 5
Computer hardware & operating system 17. 5
Continuous operation 17. 5
Some details about Client-PCs 17. 6
Some details about Oracle 9i and Thin-Client-PCs 17. 7
Screen languages 17. 8
Printing reports 17. 8
Print file naming convention 17. 9
Duplex printing 17.10
Boffin reports for importing into Excel (and other) spreadsheets 17.10
Automatic electronic print archiving 17.11
Human operators, changing their own password 17.12
Authorised-users - Private spreadsheets, word processing etc 17.13
Multiple human logons 17.14
Boffin menus 17.14
Menu interrupt 17.15
Application suite access security 17.15
Changing user-company 17.16
Hot-key 17.17
User-group 17.17
User-companies 17.18
Marketing companies 17.18
Training company 17.18
Group directors directory 17.19
Group credit controllers directory 17.20
Default allocation of customer accounts to Director/Credit controller 17.21
Sales-person/sub-agent directory 17.22
Bank accounts 17.22
Exchange rate directory 17.23
Exchange rate archiving option 17.24
General ledger accounts 17.24
Accounting months 17.24
Operational months 17.25
Details of partner agents 17.26
Details of customers 17.26
Alternate sales ledger accounts 17.26
Accounts maintained in two currencies, simultaneously 17.27
Payment dates 17.28

Cash receipts processing 17.29
Customer paying in the wrong currency 17.31
Customers paying more than one personal account with a single payment 17.32
Customers paying less than requested 17.33
Occasional cash payment processing 17.33
Transaction interfacing directly with the local general ledger 17.33
Appendix A 17.35
Appendix B - Frequently asked questions of cash office 17.37
Chapter circulation list and history 17.39

Chapter 18 - Sales ledger 18. 1
Introduction 18. 2
Suite summary 18. 2
This chapter, intention 18 .2
Text convention 18. 2
Boffin variations 18. 3
Boffin/Open Standard and Enterprise editions 18. 4
Booking volumes 18. 4
Data conversion 18. 4
Computer installation 18. 4
Computer hardware and operating system 18. 5
Continuous operation 18. 5
Some details about Client-PCs 18. 5
Boffin/Open Client Server and Web enabled application 18. 6
Some details about Oracle 9i and Thin-Client-PC support 18. 7
Screen languages 18. 8
Printing reports 18. 8
Print file naming convention 18. 9
Standard sales invoice set and obtaining additional copies 18.10
Optional discrete logical printer for Accounts-copy sales invoices 18.10
Duplex printing support 18.11
Printing screen images from the application software 18.11
Boffin reports for importing into Excel (and other) spreadsheets 18.11
Automatic electronic print archiving 18.13
Programs ability to compose and send automatic emails 18.14
Gathering of personal account intelligence 18.15
Human operators, changing their own passwords 18 16
Authorised users - Private Spreadsheets, Word Processing etc 18.17
Multiple human logons 18.18
Boffin menus 18.18
Menu interrupt 18.19
Mouse navigation on all menus 18.19
Pull down menus 18.19
Application suite access security 18.20
Changing user-company 18.21
Hot key 18.21

Operator program event logging 18.21
Automatic user logoff/logon at change of date and/or accounting month 18.22
User-group 18.22
User-companies 18.23
Marketing companies 18.23
Training company 18.24
Group directors 18.24
Group credit controllers 18.25
Default allocation of customer accounts to Director/Controller 18.26
Mass changing of Director/Credit Controller allocation on personal accounts 18.27
Sales-person/sub-agent directory 18.29
Families of personal accounts - Related accounts **18.29**
Splitting the sales ledger into ledger sections 18.29
Worldwide postcode directory 18.30
Worldwide town name directory 18.30
Operational divisions 18.31
Operational branches 18.31
Operational sections 18.32
Bank accounts 18.32
Open-item transactions types **18.32**
Exchange rate directory 18.33
Selection of active currencies 18.35
Exchange rate archiving option 18.35
General ledger cost centres 18.35
General ledger accounts 18.36
Dynamic list of possible shipment sales charges **18.**
Personal account numbers 18.36
Applying VAT decision 18.37
Accounting months 18.37
Operational months 18.38
Extended accounting month option 18.38
Sales ledger credit account application image processing option 18.
Customer account credit status rating 18.39
Customer account credit limit support **18.40**
Blocking cargo bookings for 'problem' customer accounts **18.41**
Details of partner agents 18.44
Details of customers 18.44
Details of potential customers 18.45
Related personal accounts **18.46**
Alternate sales ledger accounts 18.48
Universal searching for customer accounts, and creating new accounts **18.49**
Logically 'deleting' customer accounts **18:50**
Prevention of archiving on some customer personal accounts **18.51**
Archiving logically 'deleted' customer accounts **18.52**
Accounts maintained in two currencies, simultaneously 18.58
Single and multiple-line vouchers 18.60

Adding notes to accounting any/all accounting records **18.60**
Sales invoice numbers 18.61
Payment dates 18.61
Sales invoicing styles 18.62
Duty/VAT invoicing 18.63
Duty/VAT at Point of Entry control 18.64
Shipper's COD control suite activated in Surface Export suite **18.64**
Sales invoicing 18.65
Sales bulk invoicing 18.67
Support for internal debiting 18.67
Supplementary invoicing 18.68
General invoicing 18.69
Overhead invoicing 18.70
Bulk sales invoicing 18.71
Sales invoicing in non-computerised departments 18.72
Posting manually produced sales invoices and credit notes 18.72
Posting complex manually prepared sales invoices and credit notes 18.72
Special option when printing COD and Strictly COD sales invoices 18.72
Charging interest on overdue sales invoices 18.73
Printing copy sales invoices and credit notes 18.75
Printing a book of accounts copy sales invoices for an accounting period 18.
Credit Note control option 18.76
Cash receipts processing (Cheques and Cash) 18.76
Cash receipts processing (Drafts) 18.77
Customers paying in wrong currency 18.78
Customers paying less than requested 18.79
Dishonoured/bounced cheque processing 18.79
Occasional cash payment processing 18.80
Personal account transfers 18.81
Personal account contras 18.81
Personal account journals 18.82
Transaction interfacing directly with local general ledger 18.83
Open-item transaction matching 18.84
Debtors listings 18.85
Retrospective aged debtors/creditors listings as at an accounting month-end I 18.87
Retrospective aged debtors/creditors listings as at an accounting month-end I 18.88
Account enquiry 18.90
Open-item transaction ageing 18.91
Customer current statements 18.92
Intermediate customer (non-updating) statements 18.94
Retrospective customer statements 18.94
Publishing customer statements on the user's website **18.94**
Customer statements, copy invoices and POD 'package' **18.94**
Credit control letters 18.95
Credit statistics 18.96
Customer turnover reporting 18.97

Accounting month change-over 18.97
Day-end processing 18.97
Year-end processing 18.98
Financial control totals by voucher type 18.100
Doubtful debts assessment 18.101
Sales turnover reporting - (AINVTURN) Analysis by currency/month/acct. 18.101
Sales turnover reporting - (AINVTURO) Analysis by currency/month 18.102
Formal monthly re-valuation of unpaid foreign currency transactions 18.103
Removing old/completed financial transactions from the live system 18.105
Audit report - (ADAYBOOK) Detail list of accounting vouchers by type 18.108
Audit report - (ADAYBKFR) French standards version of (ADAYBOOK) 18.109
Audit report - (ALISTFRA) Detail list supporting Debtors Control movement 18.109
Audit report - (ALISTALL) Detail list supporting Debtors Control movement 18.110
Audit report - (ALISTALM) Detail list of unmatched items 18.111
Audit report - (NCTLLIST) Detail list of sales ledger control account 18.112
Audit report - (SLAUDITA) Reconciliation of sales ledger cash receipts 18.113
Audit report - (SLAUDITB) Reconciliation of sales ledger transfers 18.113
Audit report - (AINVBOOK) Print book of sales invoices, in number order 18.
Value Added Tax (VAT) analyses 18.113
Appendix A - Producing retrospective personal account currency debtors lists 18.117
Appendix B - Advanced worldwide VAT decision for sales invoicing 18.121
Appendix C - Customer statements, copy invoices and POD 'package' 18.127
Appendix D - Frequently asked questions - Sales ledger 18.127
Chapter circulation list and history 18.131

Chapter 19 - Bought ledger 19. 1
Introduction 19. 2
Suite summary 19. 2
This chapter, intention 19. 2
Text convention 19. 2
Boffin variations 19. 3
Booking volumes 19. 4
Data conversion 19. 4
Computer installation 19. 4
Computer hardware and operating system 19. 4
Continuous operation 19. 5
Some details about Client-PCs 19. 5
Some details about Oracle 9i and Thin-Client-PC support 19. 6
Screen languages 19. 7
Printing reports 19. 7
Print file naming convention 19. 8
Duplex printing support 19. 9
Printing screen images from the application software 19. 9
Boffin reports for importing into Excel (and other) spreadsheets 19. 9
Automatic electronic print archiving 19.11
Human operators, changing their own password 19.12

Programs ability to compose and send automatic emails 19.12
Gathering of personal account intelligence 19.13
Authorised users - Private spreadsheets, Word processing etc 19.15
Multiple human logons 19.16
Boffin menus 19.16
Menu interrupt 19.16
Pull down menus 19.17
Application suite access security 19.17
Changing user-company 19.18
Hot-key 19.19
Operator program event logging 19.19
Automatic user logoff/logon at change of date and/or accounting month 19.19
User-group 19.20
User-companies 19.20
Marketing companies 19.21
Training company 19.21
Group director directory 19.22
Group credit controllers 19.23
Default allocation of supplier accounts to Director/Controller 19.24
Families of personal accounts - Related accounts **19.24**
Operational divisions 19.26
Operational branches 19.26
Operational sections 19.27
Bank accounts 19.27
Open-item transactions types **19:27**
Exchange rate directory 19.28
Exchange rate archiving option 19.29
General ledger cost centres 19.29
General ledger accounts 19.30
Dynamic list of possible shipment sales charges 19.
Personal account numbers 19.30
Applying VAT decision 19.31
Accounting months 19.31
Operational months 19.32
Extended accounting month option 19.32
Details of partner-agents 19.34
Details of suppliers 19.34
Related personal accounts 19.35
Logically 'deleting' supplier accounts **19.37**
Prevention of archiving on some supplier personal accounts **19.38**
Archiving logically 'deleted' supplier accounts **19.38**
Accounts maintained in two currencies, simultaneously 19.43
Single and multiple line vouchers 19.45
Adding notes to accounting any/all accounting records 19.46
Payment dates 19.47
Optional registration of incoming supplier invoices and/or credit notes **19.47**

Posting of supplier trading invoices and credit notes **19.49**
Posting of supplier overhead invoices and credit notes **19.51**
Three ways of paying suppliers **19.51**
Occasional manually prepared cheque payments **19.52**
Preparation on combined remittances and cheques **19.52**
Full system of payment selection, remittance printing & cheques **19.52**
Suppliers paying in wrong currency 19.54
Paying suppliers less than requested 19.54
Occasional cash payment processing 19.55
Personal account transfers 19.55
Personal account contras 19.56
Personal account journals 19.56
Transactions interacting directly with the local general ledger 19.57
Open-item transaction matching 19.58
Creditors listings 19.59
Retrospective aged creditors listings as at an earlier accounting-month cutoff 19.62
Retrospective aged creditors listings as at an earlier accounting month cutoff 19.6 2
Account enquiry 19.64
Open-item transaction ageing 19.65
Supplier current statements 19.66
Retrospective supplier statements 19.67
Accounting-month change-over 19.68
Day-end processing 19.68
Year-end processing 19.69
Financial control totals by voucher-type 19.71
Formal monthly re-valuation of unpaid foreign currency transactions 19.72
Removing old/completed financial transactions from the live system 19.74
Audit reports 19.76
Detail list of accounting vouchers by type/No (ADAYBOOK) 19.76
Detail list of trial balance creditors control movement (BLISTFRA) 19.77
Detail list of trial balance creditors control movement (BLISTALL) 19.79
Detail list of unmatched transactions per accounting period (BLISTALM) 19.80
Detail list of bought ledger control account (NCTLLIST) 19.80
Value added tax (VAT) analyses 19.81
Appendix A - Producing retrospective personal account currency creditors 19.85
Appendix B - Technical process used for Remittance and Cheque production 19.89
Appendix C - Frequently asked questions - Bought ledger 19.93
Chapter circulation list and history 19.95

Chapter 20 - General ledger, real-time, open-item 20. 1
Introduction 20. 2
Suite summary 20. 2
This chapter, intention 20. 2
Text convention 20. 2
Boffin variations 20. 3
Booking volumes 20. 4

Data conversion	20. 4
Computer installation	20. 4
Computer hardware and operating system	20. 4
Continuous operation	20. 5
Some details about Client-PCs	20. 5
Some details about Oracle 9i and Thin-Client-PC support	20. 6
Screen languages	20. 7
Printing reports	20. 7
Print file naming convention	20. 8
Optional discrete logical printer for Accounts Copy Invoices	20. 8
Duplex printing support	20. 9
Printing screen images from the application software	20. 9
Boffin reports for importing into Excel (and other) spreadsheet(s)	20. 9
Automatic electronic print archiving	20.11
Human operators, changing their own passwords	20.12
Authorised users - private spreadsheets, word processing etc	20.12
Multiple human logons	20.13
Boffin menus	20.13
Menu interrupt	20.14
Application suite access security	20.14
Changing user-company	20.15
Hot-key	20.16
Operator program event logging	20.15
Two supported methods of processing Value Added Tax (VAT)	20.16
Sample posting sequence of VAT Reportable transactions under ‘P’ regime	20.17
Changeover of VAT Reporting option from ‘A’ to ‘P’ option	20.18
Setup of Value Added Tax general ledger accounts	20.19
Trading items and job numbers	20.22
User-group	20.22
User-companies	20.23
Marketing companies	20.23
Training company	20.24
Cost Centre ‘family’ groupings	20.25
General ledger cost centres	20.25
General ledger accounts	20.26
Group company directors	20.26
Group credit controllers	20.27
Operational divisions	20.28
Operational branches	20.28
Operational sections	20.29
Bank accounts	20.29
Open-item transactions types	**20.29**
Exchange rate directory	20.29
Exchange rate archive option	20.30
Personal account numbers	20.30
Applying VAT decision	20.31

Accounting months 20.31
Operational or Trading months 20.32
Extended accounting month option 20.32
Personal accounts maintained in two currencies, simultaneously 20.34
Single and multiple line vouchers 20.35
Sales invoice numbers 20.36
General ledger journal voucher numbers 20.37
Overhead sales invoicing 20.37
Personal account transfers 20.37
Personal account contras 20.38
Personal account journals 20.39
Transactions interacting directly, sales ledger & the local general ledger 20.40
Support for internal debiting 20.40
Support for United Kingdom P11D - Director's expenses reporting **20.40**
Open-item matching in general ledger accounts 20.41
Debtors listing(s) 20.43
Retrospective aged debtors/creditors listings at an accounting month cut-off 20.45
General ledger account enquiry 20.45
Open-item transaction ageing 20.46
Customer turnover reporting 20.47
Accounting month change-over 20.47
Day-end processing 20.47
Management accounting facilities 20.48
Support for overhead periodisation 20.48
Support for reallocation cost centre 20.51
Alignment of statistical and financial profits 20.53
Extended accounting-month option 20.55
Journalling of trading items forward between accounting months 20.55
Journalling of trading items backwards between accounting months 20.57
Physically removing a voucher from the system 20.57
Financial control totals by voucher type 20.58
Doubtful debt assessment 20.59
Sales turnover reporting, (AINVTURN) Analysis by Currency/month/account 20.59
Sales turnover reporting, (AINVTURO) Analysis by Currency/month 20.60
Audit report - (ADAYBOOK) Detail list of vouchers by Type/Voucher-No 20.61
Trial balance by general ledger account at user company level 20.62
Trial balance by families of cost centres 20.63
Trial balance by cost centre 20.63
Automatic Profit/Loss and Balance sheet reporting 20.64
Automatic Balance Sheet carried-forward at Financial Year-end 20.65
Audit reporting 20.68
(**NLISTALL**) Complete detail transaction list of general ledger 20.68
(**ALISTALL**) Complete detail list to support Trial Balance debtors 20.69
(**BLISTALL**) Complete detail list to support Trial Balance creditors 20.70
(**ALISTALM**) Detail of unmatched items for accounting period(s) 20.71
(**BLISTALM**) Detail of unmatched items for accounting period(s) 20.72

(**NLISTALM**) Old year / New year trading account reconciliation 20.72
(**NCTLLIST**) Detail list supporting sales ledger control account 20.72
(**NLISTFRA**) French national version of (NLISTALL), above 20.73
(**ALISTFRA**) French national version of (ALISTALL), above 20.73
(**BLISTFRA**) French national version of (BLISTALL), above 20.73
(**SLAUDITA**) Reconciliation of sales ledger cash receipts by day 20.73
(**SLAUDITB**) Reconciliation of sales ledger transfers 20.74
Value Added Tax analyses 20.74
Appendix A Extended Accounting Month option 20.77
Appendix A1 (AUPDATE) Extended Accounting Month 20.89
Appendix B VAT reporting month based on payment date 20.91
Appendix B1 Tech notes on 2 supported VAT Reporting methods 20.95
Appendix C Frequently asked questions 20.97
Appendix D Conversion of general ledger currency exercise 20.99
Appendix Y Sample ledger audit/corrective projects 20.107
Appendix Y1 (AACRCLST) trading accruals position incorrect 20.109
Appendix Y2 User instructions for (AACRCLST) correction 20.131
Appendix Y3 Debtors & Creditors G/L Control accounts difference 20.
Chapter circulation list and history 20.143

Chapter 21 - Overhead expense analyses
Introduction

Chapter 22 - Departmental budgets
Introduction

Chapter 23 - Sales & marketing
Introduction

Chapter 24 - Customs Tariffs and tariff indices
Introduction

Chapter 25 - Surface Import cargo bookings EDI transmissions 25. 1
Introduction 25. 2
Subordinate installation - responsibilities 25. 2
Boffin/Open System control record 25. 4
Boffin/Open Route Control record 25. 4
New Routes 25. 5
Boffin/Open cargo booking programs 25. 5
Master groupage and detail shipment bookings require EDI 25. 5
Upgraded cargo booking programs 25. 5
Timing of EDI transmissions 25. 6
Initiation of transmissions 25. 7
Amending the request for an EDI transmission 25. 7
Cargo booking manipulation in transit 25. 8
Sending latest ANAMES before bookings 25. 8

Sending latest EXCHANGE before bookings 25. 9
Sending latest SHIPS directory before bookings 25. 9
Sending latest PORTS directory before bookings 25.10
Sending latest SYSTOWNS directory before bookings 25.10
Surface import search program (ISURFIND) 25.10
Subordinate site(s) sending Deep Sea Import bookings 25.10
Issuance of Transmission Receipts 25.13
Appendix A Page 1/3 Surface import Route Control Record 25.15
Page 2/3 Surface import Route Control Record 25.16
Page 3/3 Surface import Route Control Record 25.17
Appendix B Deep Sea Import booking fields amended for Tx 25.19
Chapter circulation list and history 25.21

Chapter 26 - (HERE)

Chapter 27 - Setup Profit/Loss & Balance Sheet reports 27. 1
Introduction 27. 2
Suite summary 27. 2
This chapter, intention 27. 2
Current financial year gross profit account 27. 2
Profit/Loss report format 27. 3
Issuing Profit/Loss report line numbers 27. 3
Sub-totalling and totalling 27. 4
Detail, Subtotal and Total Lines 27. 4
Establishing the Profit/Loss report lines 27. 4
Annotating Profit/Loss General Ledger accounts with line numbers 27. 5
Similar methods for Style-1 Balance Sheet 27. 5
Profit/Loss report format 27. 6
Issuing balance sheet report line numbers 27. 6
Sub-totalling and totalling 27. 7
Detail, Subtotal and Total Lines 27. 7
Establishing the B/S Assets report Lines 27. 7
Annotating B/S General ledger accounts with line numbers 27. 8
Establishing the B/S Liabilities report format 27. 8
Completion of Style-1 27. 9
Appendix A - Style - 1 Profit/Loss sample Line Numbers 27.11
Appendix A1 - Style - 1 Profit/Loss sample report format 27.12
Appendix B - Style - 1 Balance Sheet Assets line numbers 27.13
Appendix B1 - Style - 1 Balance Sheet Assets sample report 27.14
Appendix C - Style - 1 Balance Sheet Liabilities line numbers 27.15
Appendix C1 - Style - 1 Balance Sheet Liabilities sample 27.16
Appendix D - NLMARKER detail screen setup, 'P' marker 10010 27.17
Appendix E - MAINSUBS detail screen showing P&L Line Numbers 27.18
Chapter circulation list and history 27.21

Chapter 28 - Discussion & setup of Reallocation Cost Centres 28. 3

Introduction 28. 4
Reallocation cost centres 28. 4
Multi-layered re-allocations 28. 4
Total re-allocations 28. 4
Retrospectively setting-up Reallocation cost centres 28. 4
Method of reallocation 28. 5
Timing of reallocation 28. 5
Effect of changing re-allocations 28. 6
Setup processes- 1 Nominate reallocation cost centres 28. 6
- 2 Record start date of new method 28. 6
- 3 Consider retrospective initial running 28. 7
- 4 Create the additional P&L Line numbers 28. 7
- 5 Create the additional G/L accounts 28. 7
- 6 Amend the installation cost centre table 28. 8
- 7 Setup the reallocation Cost centres & % 28. 8
- 8 Amend Management Month-end process 28. 8
- 9 Amend Management Month-end check list 28. 9
Appendix A - Reallocation Cost Centre, applicable G/L accounts 28.1
Appendix B - Reallocation Cost Centre, percentages setup 28.2
Appendix C - Sample simple reallocation cost centres for 1995 28.3
Appendix D - NLPERIOE - Reallocation of overheads in G/L 28.4
Appendix E - Sample P&L report showing Reallocation Line Nos 28.6
Chapter circulation list and history 28.

Chapter 29 - Customer under-payments 29. 1
Introduction 29. 2
Processing of a Part-Payment 29. 2
Write-off short payment 29. 3
General Ledger write-off account 29. 4
Write-offs not affecting Gross Profit 29. 4
Terminal operator security 29. 4
General Ledger standard journal 29. 5
Viewing the standard journal 29. 5
Home currency write-offs 29. 5
Accounting example data 29. 5
Menus and program calling 29. 6
Constructing the journal 29. 6
Journal detail posting screen lines 29. 7
Identification of customer account 29. 8
Personal account balance 29. 9
Completion of posting 29. 9
Matching items on customer account 29. 9
Audit considerations 29. 9
Appendix A - Sales ledger write-off Standard Journal 29.11
Appendix A1 - Sales ledger write-off Personal Account request 29.13
Chapter circulation list and history 29.15

Chapter 30 - Writing-off supplier underpayment 30. 1
Introduction 30. 2
General ledger write-off account 30. 2
Write-offs not affecting Gross Profit 30. 2
Terminal operator security 30. 2
General Ledger standard journal 30. 3
Viewing the Standard Journal 30. 3
Home-currency write-off 30. 3
Accounting example data 30. 3
Menus and program calling 30. 4
Constructing the journal 30. 4
Journal detail posting screen lines 30. 5
Identification of supplier account 30. 6
Personal account balance 30. 7
Completion of posting 30. 7
Matching items on customer account 30. 7
Audit considerations 30. 7
Appendix A - Sales ledger write-off Standard Journal 30. 9
Appendix A1 - Sales ledger write-off Personal Account request 30. 0
Chapter circulation list and history 30.

Chapter 31 - Countries, Currencies & Exchange rates 31. 1
Introduction 31. 2
Boffin country table 31. 2
FreightNet networks 31. 2
Local general ledger currency 31. 2
Group general ledger currency 31. 2
Personal account currencies 31. 2
Boffin/Open initial installation 31. 3
Introducing additional personal account currencies 31. 3
Rates of Exchange 31. 3
Multiple rates of exchange 31. 4
Creating the required control personal accounts 31. 5
In conclusion 31. 5
Currency and country short names 31. 5
Discrete general ledger account for Profit/Loss in Exchange 31. 6
Background system design information 31. 6
Automatic profit/loss in exchange calculations 31. 6
Viewing personal account differences in exchange 31. 7
Reporting on differences in exchange - by personal account 31. 8
Reporting on potential differences in exchange 31. 8
Appendix A - EXCHANGE detail screen for one country/currency 31. 0
Chapter circulation list and history 31.

Chapter 32 - Profit/Loss in Exchange processing 32. 1
Introduction 32. 2

The design argument 32. 2
Installation system defaults parameters 32. 4
Home currency real-time general ledger 32. 4
General Ledger account for exchange profit/losses 32. 4
Human operators changing recommended currency conversions 32. 5
Allowable percentage tolerance for supplier invoice entry 32. 5
Allowable home-currency value tolerance for invoice entry 32. 6
Currency authorisation for use 32. 6
Increasing available personal accounting currencies 32. 6
Optional supplier invoice registration 32. 7
Real-time rates of exchange 32. 7
Foreign currency personal accounts 32. 8
Supplier invoice and/or credit note input 32. 8
Foreign currency personal account payments 32.10
Foreign currency personal account open item matching 32.10
Trial balance reporting of exchange profit/losses 32.11
Detail list of exchange profit/losses by personal a/c 32.11
List of exchange future profit/loss liabilities 32.12
Summary list of exchange profit/losses by personal a/c - month 32.13
Chapter circulation list and history 32.

Chapter 33 - Entering initial trial balance values 33. 5
Introduction 33. 6
Accounting changeover timing 33. 6
Required starting balances 33. 6
Opening customer account balances 33. 6
Opening supplier account balances 33. 6
General ledger balances 33. 6
Initial checks 33. 7
Entering the brought forward balance sheet 33. 7
Completion of the keying 33. 8
Updating of the online trial balance 33. 8
Re-running the current year trial balance 33. 8
Important notes 33. 8
Debtors control 33. 8
Creditors control 33. 9
Bank account balances 33. 9
Boffin control accounts - Trading items 33.10
- Overhead items 33.10
Chapter circulation list and history 33.

Chapter 34 - Obtaining accounting information from remote sites 34. 3
Introduction 34. 4
Regular transmissions 34. 4
Background information 34. 4
Subordinate site OPENFILE table 34. 4

Subordinate site OPENDALY table 34. 4
Backup copies of transmitted OPENDALY 34. 5
Subordinate site actions in OPENDALY transmissions 34. 5
Main site actions in OPENDALY receptions 34. 6
Backup system description 34. 7
Chapter circulation list and history 34.

Chapter 35 - Internal fuel distribution control 35. 9
Introduction 35. 0
Example scenario 35. 0
Aim of the exercise 35. 0
Diesel pumps as general ledger cost centres 35. 0
General Ledger accounts 35. 0
Incoming diesel purchase invoices 35. 1
Internal sales of diesel 35. 1
External sales of diesel 35. 1
Posting the internal sales sheet to the general ledger 35. 2
End of financial year implications 35. 3
Operating departments perspective 35. 3
Chapter circulation list and history 35.

Chapter 36 - Confirming house operation using Boffin/Open 36. 5
Introduction 36. 6
New general ledger cost centre for confirming operation 36. 6
New operational user-branch 36. 6
New operational user-section 36. 6
New operational user-route 36. 6
One Boffin job number per confirming-project 36. 6
Cash resources 36. 7
Clearing house gross profit 36. 7
Regular operational department's operation 36. 7
Profit/Loss in exchange 36. 7
'Confirming house' - invoicing method 36. 7
Sellers personal account in bought ledger 36. 8
New ultimate importer account in the sales ledger 36. 8
Seller's sales invoice 36. 8
Confirming house pay for the goods 36. 8
Finance from the ultimate importer 36. 8
Duty/VAT at Point of Entry 36. 8
Selling the goods to the ultimate importer 36. 9
Ocean freight sales invoice 36. 9
Booking Transmission to subordinate site for inland activities 36.10
Landside charges invoice 36.10
Consolidated invoicing 36.10
Confirming house job-costing 36.11
Credit note to partner companies 36.11

Cheque to partner company 36.12
VAT Paid Certificate from Customs 36.
Invoice partner; recover VAT refund from Certificate 36.
Chapter circulation list and history 36.

Chapter 37 -Norwegian inland door/door 37. 1
Introduction 37. 3
Chapter circulation list and history 37. 5

Chapter 38 -German inland door/door 38. 1
Introduction 38. 3
Chapter circulation list and history 38. 5

Chapter 39 -South African inland door/door 39. 1
Introduction 39. 2
Initial open-system version 39. 2
Incoming and outgoing cargo 39. 3
Technical upgrade of first open version 39. 3
Proposed content of Release 2.0 39. 4
Case study for Co-Ordinated Transport Services (Pty) Limited 39. 4
Co-Ordinated Transport Services (Pty) Limited 39. 4
The Boffin/Open 'brief' 39. 4
Summary of the operational system 39. 5
Summary of the accounting interface 39. 8
Continuing texts 39. 9
The computer network 39. 9
Boffin/Open Oracle database setup 39.10
Boffin/Open user-companies 39.10
Operational ratios 39.11
Customer parts-catalogue support 39.11
Sales charge repertoire 39.12
Terms-of-Sale directory 39.14
South African zip/postcodes 39.14
South African place-names 39.16
Cargo-terminals 39.18
Collection/delivery areas 39.18
Allocation of all place-names in the country to cargo-terminals 39.19
Cargo-terminal personal accounts 39.19
Potential customer accounts 39.20
Active customer accounts 39.20
Consignee sales accounts 39.21
Shipper not paying the prepaid charges 39.21
Consignee not paying the collect charges 39.22
Regular non-paying consignees 39.22
Customer accounts held in foreign currency 39.23
Boffin route codes 39.23

Standard sales rates 39.24
Shipper/consignee special sales rates 39.24
Sales SuperRates directory 39.25
Application printing from the Microsoft NT server 39.26
Availability of 'hot-key' 39.26
Availability of Boffin/Open alphabetic look-ups 39.26
Simultaneous incoming and/or outgoing loading groupage units 39.28
Simultaneous cargo-booking by staff on the WAN 39.28
South African zip/zip distances 39.28
Groupage unit of 'departure' creation 39.29
Detail shipment booking 39.31
Goods-on-hand 39.41
Building outgoing groupage units 39.41
Departure record closure 39.43
Printed manifests 39.44
EDI transmission of cargo-booking(s) 39.45
Booking incoming manifests arriving from uncomputerised cargo-terminals 39.46
Waybills 39.46
Sales invoicing 39.46
Bulk sales invoicing 39.48
Supplementary sales invoices and credit notes 39.48
Archiving of sales invoices and credit notes 39.48
Tracking and tracing 39.49
Cargo-booking - search facility 39.49
Inbound EDI cargo-booking monitor 39.50
Appendix A - Setting up the Boffin/Open RSA National system 39.51
Latest Boffin/Open release @BMSLOAD and SQL*scripts 39.51
WARNING on running SQL*scripts 39.51
Privileged logon 39.51
Oracle database must be started 39.51
Consideration for existing South African National system tables 39.51
Set required directory keypath 39.52
Invoke SQL*Plus to run the Oracle 7.3 table creation scripts 39.52
Create VEBULKIN - pending bulk invoicing data 39.54
Create VECHARGE - sales charge headings directory 39.58
Create VECOMMIS - pending sales commissions table 39.62
Create VECORECT - Ameta profit share correcta table 39.64
Create VEDELIVR - Delivery sales rates directory 39.68
Create VEDEPOT - Cargo-terminal directory 39.72
Create VEDESPTC - Cargo-despatch master record table 39.74
Create VEDESPTD - Cargo-despatch detail record table 39.76
Create VEFACTOR - South African geographic distance factors 39.78
Create VEMARKET - sales& marketing operational data table 39.80
Create VENAMES - Operational name and address directory 39.84
Create VEPAD - Tracking & tracing data table 39.86
Create VEPALLET - Pallet control sub-system master file 39.88

Create VEPARTNO - Shipper parts-catalogue 39.90
Create VEPOOL - Cargo-booking pool table 39.92
Create VERATES - Standard sales rates directory 39.98
Create VEROUTCN - Operational CCYYMM directory 39.100
Create VEROUTES - Route control table 39.102
Create VEROUTEU - Extension to Routes control table 39.106
Create VEROUTIN - Preferred transport routings director y 39.112
Create VESPRATE - Shipper/consignee special sales rates main 39.116
Create VESPRASD - Shipper/consignee special rates detail 39.120
Create VESPRTGD - Shipper/consignee special rates ? Table 39.122
Create VESPRAST - Shipper/consignee special sales rates ? 39.124
Create VESPRRTE - Shipper/consignee SuperRates main table 39.126
Create VESPRRTC - Shipper/consignee SuperRates ? table 39.130
Create VESPRRTT - Shipper/consignee SuperRates ? Table 39.134
Create VESPTX - SuperRate sales-line summary codes/texts 39.138
Create VETERMS - Terms-of-sale directory 39.140
Create VETOWNS - Place-names / Postcodes conversion table 39.142
Create VEVALUES - Cargo-bookings values sub-table 39.144
Create VEZIPZIP - Zip/Zip statistics table 39.146
Database table creation - completed 39.149
Initialising the National traffic application system 39.149
Setup effected within Boffin per company 39.149
System worldwide postcode directory 39.
System City/Town/Suburb names directory 39.
Cargo-terminal directory 39.149
Sales charge repertoire 39.
Terms of sale directory 39.
Agents into bought-ledger 39.150
General ledger accounts 39.150
Operational ratios 39.
Prepaid and collect sales invoicing 39.151
Operational routes 39.151
Sales rates and rating - general 39.152
Traditional Boffin/Open National Sales Rates tables 39.152
Traditional Boffin/Open Towns/tariff association table 39.152
Regular consignee directory 39.152
Inter cargo-terminal trunking 39.153
Traditional Boffin/Open special sales rates 39.153
Boffin/Open National SuperRates 39.154
Appendix B - Boffin/Open South African computer menus 39.155
System logon Mainmenu initial screen menu 39.155
National traffic incoming cargo regular menu, page 1 39.156
National traffic outgoing cargo regular menu, page 1 39.157
Volkswagen national deliveries, regular menu, page 1 39.158
National traffic, management menu, page 1 39.159
National traffic, management menu, page 2 39.160

National traffic, management menu, page 3 39.161
Appendix C - Authorised South African (Multizip) table entries 39.163
Appendix D - SYSTOWN place-name directory brought-forward 39.313
Chapter circulation list and history 39.

Chapter 40 - Operational surface imports 40. 1
Introduction 40. 2
Word processing standards 40. 2
Text convention 40. 2
Boffin variations 40. 3
Currently supported computer environments 40. 3
OSF - X-Windows support 40. 4
Support for very large money-values 40. 4
Booking volumes 40. 5
Data conversion 40. 5
Computer installation 40. 5
Computer hardware and operating system 40. 5
Continuous operation 40. 5
Application screen text languages 40. 6
Client-PCs running with Portugese keyboards 40. 7
Data-entry of variable data and conventions 40. 7
Importance of dates, their format and the rules 40. 7
Importance of times, their format and the rules 40. 8
Automatic generation and despatch of SMS messages 40.
Use of Cellphone to make enquiries of the Boffin/Open integrated database 40.
Laser printer stationery standard(s) 40. 9
Printing reports 40. 9
Print file naming convention 40.10
Option to hold physical print files 40.10
Optional discrete logical printer for Accounts Copy sales invoices 40.11
Duplex printing support 40.11
Accounts copy sales invoice printer 40.11
Printing on pre-printed multi-part sets 40.12
Printing labels 40.12
Boffin reports for importing into Excel (and other) spreadsheets 40.13
Automatic electronic print archiving 40.15
Human operators changing their own password 40.16
Authorised users - Private spreadsheets, word processing etc 40.16
Multiple human logons 40.17
Boffin menus 40.17
Menu interrupt 40.18
Application suite access security 40.18
Changing user-company 40.19
Training database 40.19
Boffin hot-key 40.20
System Task Queue 40.20

User-group 40.21
User-companies 40.21
Marketing companies 40.22
Worldwide postcode directory 40.22
Worldwide sea port directory 40.23
Worldwide town name directory 40.23
Group directors directory 40.24
Group credit controllers 40.24
Default allocation of customer accounts to Director/Controller 40.25
Sales person/sub-agent directory 40.26
Operational divisions 40.27
Operational branches 40.27
Operational sections 40.28
Sales charge headings 40.28
Route codes 40.31
Ameta profit-share control 40.31
Brochure sales rates 40.34
Special sales rates 40.35
Sales SuperRates 40.35
Exchange rate directory 40.37
Exchange rate archiving option 40.38
General ledger cost centres 40.38
General ledger accounts 40.39
Dynamic list of possible shipment sales charges 40.39
Personal account numbers 40.40
Value Added Tax decision making 40.41
Applying VAT/Sales tax decision 40.41
Applying VAT to sales charges for an EU based (VAT REgistration) user 40.42
Accounting months 40.43
Operational months 40.43
Terms of sale repertoire 40.44
Statistics 40.45
Details of customers 40.45
Details of partner agents 40.45
Details of importers 40.46
Details of potential customers 40.46
Details of shippers 40.47
Operational names and addresses 40.47
Importers special instructions 40.48
Regular delivery addresses 40.48
Customs tariff 40.49
Customs tariff index 40.49
Customs entries 40.50
Links to customs computers 40.51
Sales invoicing - general 40.52
Sales invoice print style selection 40.54

Sales bulk invoicing 40.56
Support for internal debiting 40.56
Invoicing in an alternative currency 40.57
Supplementary invoicing 40.59
Printing copy sales invoices and credit notes 40.60
Duty/VAT invoicing 40.61
Setting up a new inbound unit 40.61
Groupage master booking 40.67
Inbound EDI cargo bookings 40.67
Inbound EDI cargo bookings - Real-time monitor 40.68
Inbound EDI cargo bookings - EDI Advice of Arrival 40.69
Inbound EDI cargo bookings - Receipt issuance 40.69
Detail shipment cargo booking 40.69
Consideration of operational accrual accounting 40.72
Electronic interface with Inland Distribution 40.72
Customs Import Entry preparation 40.73
Linking groupage masters with their house bookings 40.73
Detail consignment status enquiry 40.74
Operational documentation - general comments 40.74
Unloading manifests 40.75
Advices of arrival 40.76
Collection notes 40.76
Delivery notes 40.77
Combined Collection Note and Delivery Notes set 40.77
Self-adhesive ‘delivery address’ labels 40.78
Waybill production 40.78
Detail booking CMR production 40.78
Groupage master booking CMR production 40.79
Standard Shipping Note 40.79
Reference book 40.79
Sales invoicing 40.79
Bulk sales invoicing 40.82
Support for internal debiting 40.83
Search for un-invoiced cost-files 40.84
Agents bordereau 40.84
Registration of incoming supplier invoices & credit notes 40.85
Authorisation of incoming invoices and credit notes 40.86
Processing incoming trading invoices and credit notes 40.87
Supplementary invoicing 40.88
Outstanding operational accruals 40.89
Management month-end final trading accruals matching 40.90
Regular importers - cargo status report 40.91
EDI despatch of transhipment cargo bookings 40.91
Job costing: 40.93
PADETAIL - One report line per income/expense item 40.94
PAONE - One report line per job number 40.95

PAMONTH - One report line per operational section 40.95
NTRITPFT - One line per income/expense item, by trailer/booking 40.96
NTRITPFU - One report line per groupage trailer 40.96
Duty control 40.97
Tracking & tracing 40.98
Customer services and the introduction of cascading tracking & tracing 40.99
Publishing Tracking & Tracing sheets to the user's website 40.102
Extended accounting month option 40.
Ability to test the option on live installation 40.
Delivery notes and credit checking 40.103
Proof of delivery processing 40.103
Pallet control 40.104
Master groupage cost-file apportionment 40.104
Ameta processing 40.105
Online Job Index 40.108
Profit By ... suite 40.109
Profit by Route/Month(s) 40.109
Profit by Agent/Month(s) 40.109
Profit by Groupage/Month(s) 40.110
Profit by Importer/Month(s) 40.110
Profit by Consignor/Month(s) 40.111
Profit by Salesperson/Month(s) 40.111
Profit by SuperRate/Month(s) 40.
Re-opening of profited cost-files 40.111
Appendix A - Implementing Surface Import operations on a live system 40.115
Appendix B - Setting up a test system in TRAINING company 40.123
Appendix C - Creation of IRAD South African SAD Oracle tables 40.129
Appendix C1 - Creation of ISAD United Kingdom SAD Oracle tables 40.131
Appendix D - SuperRates support for Surface Import operations 40.133
Appendix D1 - FROM function for surface imports sales SuperRates 40.134
Appendix D2 - Initial SuperRate setup screen for surface imports 40.135
Appendix D3 - SuperRate sales charge headings list and charge methods 40.141
Appendix D4 - SuperRate sales charge based, Gross Kilogram table 40.143
Appendix D5 - SuperRate sales charge based, Loading Metres table 40.145
Appendix D6 - SuperRate sales charge based, Chargeable kilos 40.147
Appendix D7 - SuperRate sales charge based, 'per package' table 40.149
Appendix D8 - SuperRate sales charge based, 'per tariff heading' table 40.150
Appendix D9 - SuperRate sales charge based, 'Advalorum Value' table 40.152
Appendix D10 - SuperRate sales charge based, 'Kilometre Distance' table 40.154
Appendix E - Completing the Unit Arrival record setup 40.157
Appendix F - Ameta profit sharing control, production and statistics 40.163
Appendix G - Value Added Tax decision process - EU based users 40.167
Appendix G1 - VAT decision - for UK based surface imports 40.183
Appendix G1A - Transcription of SPDECVAT_UK_IMP, appendix G1 40.197
Appendix G2 - VAT decision - for French based surface imports 40.209
Appendix G2A - Transcription of (SPDECVAT_FRA_IMP), appendix G2 40.223

Appendix G3 - VAT decision - for Zimbabwe based surface imports 40.235
Appendix G3A - Transcription of (SPDECVAT_ZIM_IMP), appendix G3 40.249
Appendix G4 - VAT decision - for South African based surface imports 40.261
Appendix G4A - Transcription of (SPDECVAT_SA_MP), appendix G4 40.275
Appendix H - Remaining software issues in the surface import suite 40.287
Chapter circulation list and history 40.289

Chapter 41 - Operational Surface Exports 41. 1
Introduction 41. 2
This chapter, intention 41. 2
Suite summary 41. 2
Word processing standards 41. 3
Text convention 41. 3
Boffin variations 41. 3
Currently supported computer environments 41. 4
OSF - X Windows support 41. 5
Booking volumes 41. 5
Data conversion 41. 5
Computer installation numbering 41. 5
Computer hardware and operating system 41. 5
Some details about Client-PCs 41. 6
Some details about Oracle 9i and Thin-Client-PC support 41. 7
Screen languages 41. 8
Realtime screen variable Helptext in logon language 41. 8
Printing Boffin/Open application program screen images 41. 9
Logon sequence and creating a user environment 41. 9
Continuous operation 41.10
Screen text languages 41.10
Multiple human logons 41.10
Data-entry of variable data and conventions 41.11
Boffin menus 41.11
Menu interrupt 41.12
Changing user-company 41.12
Boffin hot-key 41.13
System task queue 41.13
Importance of dates, their format and the rules 41.14
Importance of times, their format and the rules 41.14
Automatic generation and despatch of SMS messages 41.15
Use of Cellphone to make enquiries of the Boffin/Open integrated database 41.16
Laser printer stationery standard(s) 41.16
Printing reports 41.16
Print file naming convention 41.17
Duplex printing support 41.18
Accounts copy sales invoice printer 41.18
Printing on pre-printed multi-part sets 41.19
Boffin reports for importing into Excel (and other) spreadsheets 41.19

Automatic electronic print archiving 41.20
Electronic cost file 41.21
Automatic e-mail transmissions - general 41.23
Creating a new authorised user 41.23
Human operators, changing their own passwords 41.25
Authorised users - Private spreadsheets, word processing 41.26
Application suite access security 41.26
Multi-user-company system 41.27
Changing user-company 41.28
Training database 41.28
Hot-key 41.28
User-groups 41.29
User-companies 41.29
Marketing companies 41.30
Training company 41.30
Worldwide postcode directory 41.31
Worldwide sea port directory 41.32
Worldwide town name directory 41.33
Groups directors directory 41.33
Groups credit controllers 41.34
Default allocation of customer accounts to director/controller 41.35
Sales-person/sub-agent directory 41.36
Operational divisions 41.36
Operational branches 41.37
Operational sections 41.37
Route codes 41.37
Ameta profit-share control 41.38
Brochure sales rates 41.41
Special sales rates 41.41
Sales SuperRates 41.42
Exchange rate directory 41.43
Exchange rate archiving option 41.45
General ledger cost centres 41.45
General ledger accounts 41.45
Dynamic list of possible shipment sales charges 41.46
Personal account numbers 41.47
Applying VAT/Sales tax decision 41.47
Applying VAT to sales charges for an EU based Boffin/Open user 41.48
Accounting months 41.49
Operational months 41.49
Terms of sale directory 41.51
Operational route statistics 41.51
Internal profit centres 41.52
Partner agent 41.54
Exporter's details 41.54
Potential exporters 41.55

Consignee details	41.56
Routed traffic and 'who pays'	41.57
Operational names and addresses	41.62
Exporters special instructions	41.63
Customs Tariff	41.64
Customs tariff index	41.64
Import duty and/or VAT-at-Entry exemptions	41.65
Customs entries	41.65
Links to customs computers	41.66
Links to South African Customs	41.67
Collection of cargo from shipper sites	41.68
Operational month-change - automatic system check	41.69
Detail cargo pre-booking	41.69
Establishing loading units	41.70
Groupage master booking	41.71
Detail shipment booking	41.71
Allocating cargo bookings to Loading Units	41.72
Goods-on-Hand display and listing	41.73
Manifests from open loading units	41.74
Removing a detail booking from a Loading Unit	41.74
Deleting a whole Loading Unit	41.75
Closing a loading unit	41.75
Confirmation of sailing details	41.77
Producing a Linked Unit Manifest	41.78
Producing the normal Export manifest from the System Task Queue	41.79
Producing the normal Export Bordereau report	41.79
Producing a CMR for the overall Unit as a whole	41.80
Producing a CMR for each detail cargo booking in a Groupage Unit	41.80
Producing Certificates of Shipment	41.80
Sales invoicing - general	41.80
Sales bulk invoicing	41.83
Support for internal debiting	41.83
Primary sales invoicing for the unit	41.84
Supplementary invoicing	41.85
Printing copy sales invoices and credit notes	41.87
Consideration for operational accrual accounting	41.87
Detail consignment status enquiry	41.88
Operational documentation - general comments	41.88
Collection notes	41.89
Standard shipping notes	41.89
Reference book	41.89
Search for un-invoiced cost files	41.90
Registration of incoming supplier invoices and credit notes	41.90
Authorisation of incoming supplier invoices and credit notes	41.91
Processing incoming supplier invoices and credit notes	41.92
Supplementary invoicing	41.93

Outstanding operational accruals 41.94
Management month-end, final trading accruals matching 41.95
Regular exporters - cargo status report 41.96
EDI despatch of shipment cargo bookings 41.96
Job costing 41.98
Tracking & tracing 41.102
Customer services and the introduction of cascading tracking & tracing 41.103
Publishing tracking & tracing sheets to the user's website 41.106
Proof of delivery (POD) processing 41.107
Proof of Delivery image processing 41.109
Master cost-file apportionment 41.111
Ameta processing 41.111
Online job index 41.115
Profit by.... suite 41.115
Profit by Route/Month(s) (JOBIROUT) 41.115
Profit by Agent/Month(s) (JOBIAGNT & JOBITOPA) 41.116
Profit by Groupage/Month(s) (JOBITRLR) 41.116
Profit by Exporter/Month(s) (JOBICUST & JOBITOPC) 41.117
Profit by Consignee/Months ( ) 41.117
Profit by Salesperson/Month(s) (JOBISMAN) 41.118
Re-Opening a profited cost-file 41.118
Appendix A - SuperRates support for surface export operations 41.121
Appendix A1 - FROM function for surface exports sales SuperRates 41.122
Appendix A2 - Initial SuperRate setup screen for surface exports 41.123
Appendix A3 - SuperRate sales charge headings list and charge methods 41.129
Appendix A4 - SuperRate sales charge based, Gross Kilogram table 41.131
Appendix A5 - SuperRate sales charge based, Loading Metres table 41.133
Appendix A6 - SuperRate sales charge based, Chargeable kilos 41.135
Appendix A7 - SuperRate sales charge based, 'per package' table 41.137
Appendix A8 - SuperRate sales charge based, 'per tariff heading' table 41.139
Appendix A9 - SuperRate sales charge based, 'Advalorum Value' table 41.141
Appendix A10 - SuperRate sales charge based, 'Kilometre Distance' table 41.143
Appendix B - Setting up a test system in TRAINING company 41.145
Appendix C - Pre-booking export shipments, detailed discussion 41.151
Appendix C1 - Surface export pre-booking function screen format 41.157
Appendix C2 - FROM function detail screen format 41.158
Appendix C3 - Surface export pre-booking detail booking screen design 41.159
Appendix D - Setting up new export route(s) in an established system 41.161
Appendix E - Boffin/Open Surface Exports authorised tracking operands 41.165
Appendix F - Remaining software issues in the surface export suite 41.167
Appendix G - Value Added Tax decision process - EU based users 41.171
Appendix G1 - VAT decision - for UK based surface exports 41.181
Appendix G2 - VAT decision - for French based surface exports 41.193
Appendix G3 - VAT decision - for Zimbabwe based surface exports 41.205
Appendix G4 - VAT decision - for South African based surface exports 41.217
Appendix H - Setting up the Boffin/Open bar-code printing facility 41.229

Appendix I - Remaining software issues 41.233
Chapter circulation list and history 41.235

Chapter 42 - Direct Air Exports 42. 1
Introduction 42. 2
Chapter circulation list and history 42. 2
Suite summary 42. 3
Word processing standards 42. 3
Text convention 42. 3
Boffin variations 42. 4
Currently supported computer environments 42. 4
OSF - X Windows support 42. 5
Booking volumes 42. 5
Data conversion 42. 5
Computer installation numbering 42. 5
Computer hardware and operating system 42. 6
Some details about Client-PCs 42. 6
Some details about Oracle 9i and Thin-Client-PC support 42. 7
Screen languages 42. 8
Logon sequence and creating a user environment 42. 8
Continuous operation 42. 9
Multiple human logons 42.10
Data-entry of variable data and conventions 42.11
Boffin menus 42.11
Menu interrupt 42.11
Changing user-company 42.12
Boffin hot-key 42.12
Importance of dates, their format and the rules 42.13
Importance of times, their format and the rules 42.13
Printing reports 42.14
Print file naming convention 42.15
Duplex printing support 42.16
Accounts copy sales invoice printer 42.16
Boffin reports for importing into Excel (and other) spreadsheets 42.16
Automatic electronic print archiving 42.18
Human operators, changing their own passwords 42.19
Authorised users - Private spreadsheets, word processing 42.20
Application suite access security 42.20
Multi-user-company system 42.21
Changing user-company 42.22
Training database 42.22
Hot-key 42.23
User-group 42.23
User-companies 42.24
Marketing companies 42.24
Training company 42.25

Worldwide postcode directory 42.26
Worldwide airport directory 42.27
Worldwide town name directory 42.27
Groups directors directory 42.28
Groups credit controllers 42.29
Default allocation of customer accounts to director/controller 42.30
Sales-person/sub-agent directory 42.30
Operational divisions 42.31
Operational branches 42.31
Operational sections 42.32
Route codes 42.32
Brochure sales rates 42.32
Special sales rates 42.33
Sales SuperRates 42.34
Exchange rate directory 42.35
Exchange rate archiving option 42.35
General ledger cost centres 42.36
General ledger accounts 42.36
Personal account numbers 42.37
Applying VAT/Sales tax decision 42.37
Accounting months 42.37
Operational months 42.38
Terms of sale repertoire 42.39
Operational route statistics 42.40
Internal profit centres 42.41
Partner agent details 42.42
Exporter's details 42.43
Potential exporters 42.43
Consignee details 42.44
Exporters special instructions 42.46
Customs Tariff 42.46
Customs tariff index 42.47
Customs entries 42.47
Links to customs computers 42.49
Links to South African Customs 42.50
Collection of cargo from shipper sites 42.50
Operational month-change - automatic system check 42.51
Shipment pre-booking 42.52
Shipment booking 42.52
Goods-on-Hand display and listing 42.53
Confirmation of 'flight details' 42.55
Producing Certificates of Shipment 42.55
Sales invoicing - general 42.56
Sales bulk invoicing 42.58
Support for internal debiting 42.59
Primary sales invoicing for the unit 42.60

Supplementary invoicing 42.61
Printing copy sales invoices and credit notes 42.63
Consideration for operational accrual accounting 42.63
Detail consignment status enquiry 42.73
Operational documentation - general comments 42.64
Collection notes 42.65
Reference book 42.65
Search for un-invoiced cost files 42.65
Registration of incoming supplier invoices and credit notes 42.65
Authorisation of incoming supplier invoices and credit notes 42.67
Processing incoming supplier invoices and credit notes 42.68
Supplementary invoicing 42.68
Outstanding operational accruals 42.70
Management month-end, final trading accruals matching 42.71
Job costing 42.71
Tracking & tracing 42.75
Customer services and the introduction of cascading tracking & tracing 42.76
Proof of delivery processing 42.79
Online job index 42.80
Profit by.... suite 42.81
Profit by Route/Month(s) (JOBIROUT) 42.81
Profit by Agent/Month(s) (JOBIAGNT & JOBITOPA) 42.81
Profit by Groupage/Month(s) (JOBITRLR) 42.82
Profit by Exporter/Month(s) (JOBICUST & JOBITOPC) 42.82
Profit by Consignee/Months ( ) 42.83
Profit by Salesperson/Month(s) (JOBISMAN) 42.83
Re-Opening a profited cost-file 42.83
Appendix A - Creation of direct air export database tables 42.87
Appendix B - Establishing a Training company direct air export system 42.91
Appendix C - Remaining software issues in the direct air export suite 42.99
Formal circulation list for this chapter 42.101

Chapter 43 - Operational Consolidated air exports 43.
Introduction 43.
Chapter circulation list and history 43.

Chapter 44 - Operational Breakbulk air imports 44.
Introduction 44.

Chapter circulation list and history 44.

Chapter 45 - Operational Direct air imports 45.
Introduction 45.
Chapter circulation list and history 45.

Chapter 46 - Operational bulk sales invoicing 46. 7
Introduction 46. 8
Typical sales invoice set 46. 8
Ledger posting of individual sales invoices 46. 9
Effect of spooled printing 46. 9
Two types of bulk sales invoicing 46. 9
Installation master bulk invoicing switch 46. 9
Closing down the bulk sales invoicing option 46.10
Possibility of Boffin/Open module switches 46.10
Multiple inland distribution installations 46.10
Bulk sales invoicing 46.10
Departmental bulk sales invoicing 46.11
Complex customer requirements 46.11
Preparation of the bulk sales invoice 46.11
Bulk sales invoice set 46.11
Clearing the pending bulk sales invoice details 46.12
No loss of general ledger detail 46.12
Supplementary sales invoices 46.12
Chapter circulation list and history 46.

Chapter 47 - Detailed description of Import SuperRates 47. 5
Introduction 47. 6
Availability of SuperRates 47. 6
Number of SuperRates 47. 6
Salespeople setting up SuperRates 47. 7
When is a deal a deal 47. 7
Booking access to SuperRates 47. 7
Selection of potential customer details 47. 8
General description 47. 8
Appendices 47. 9
Appendix A - Access to SuperRates 47. 9
B - Surface import menu 47. 0
C - Surface import management menu 47. 1
D - Selection of Surface Import SuperRate program 47. 2
E - FROM function to determine what rates exist 47. 3
F - Display of initial screen of a SuperRate 47. 4
G - Display detail charge headings of SuperRate 47. 5
H - Sample charge table by shipment value 47. 6
I - Sample charge table by loading metres 47. 7
J - Sample charge table for Additional Tariffs 47. 8
K - Sample charge table for Rate per consignment 47. 9
L - Sample charge table for Rate per 100 Kilos 47.10
M - Sample charge table for Rate per Cubic Metre 47.11
N - Sample charge table for Rate per package 47.12
Chapter circulation list and history 47.

Chapter 48 - Tele-communications links with CCS 48. 5
Introduction 48. 6
CCS-UK & CCS-ZA connection 48. 6
Telecommunications protocols 48. 6
X. 25 IPSS telecommunications 48. 6
CCS-UK - available services 48. 7
CCS-UK - service contracts 48. 7
United Kingdom DTI Schemes 48. 7
Community Network Services (CNS) 48. 7
FCP80 48. 9
FCP80 for England 48. 9
FCP80 for Scotland 48.10
Dover Harbour Board 48.10
Link to CHIEF for HCI 48.10
Link to CHIEF for Electronic Data Interchange (EDI) 48.10
Customs Clearance Systems - CCS-UK 48.10
CHIEF HCI screens via CCS-UK 48.10
CCS-UK in EDI message mode 48.11
Applications programming complexity 48.11
Other logical EDI links to CHIEF 48.11
Other EDI links available through CCS-UK 48.11
Chapter circulation list and history 48.

Chapter 49 - Trading accrual processing 49. 1
Introduction 49. 2
Multi-currency personal accounts, single currency general ledger 49. 2
General ledger currency 49. 2
Open-item general ledger 49. 2
Integrated job costing 49. 2
Input of trading items 49. 2
Job costing accruals 49. 3
Support for manual trading accruals 49. 3
Operational accrual accounting 49. 3
All costs authorised against ORIGINAL cost-file 49. 4
Accounting records 49. 4
Requirements 49. 5
Selection of Partial/Full Accrual Accounting per Route/Service 49. 5
Partial Accrual accounting 49. 5
Full accrual accounting 49. 6
Reasonable balance in the general ledger 49. 7
Accruing trade sales 49. 7
Changing cost-file gross profits 49. 7
The exception - General ledger journals 49. 8
Early accruing and profiting 49. 8
Missing cost-files 49. 8
Zero value sales invoices 49. 9

Management's check that all cost-files are closed 49. 9
Listing the then-current Sectional accrual reference 49. 9
Managers closing their Sectional accruals reference 49.10
Automatic closure of some cost-files 49.10
Outstanding accruals by personal account 49.11
Outstanding accruals by currency 49.14
Outstanding accruals by Section 49.15
Monitoring accuracy of trading accruing 49.16
Detail reconciliation of trading accruals 49.16
WARNING - Monitoring trading accruals 49.17
Sample accounting record flow 49.18
User's general ledger 49.18
General ledger accounts 49.19
General ledger matching 49.19
Personal accounts 49.19
Boffin Multiple/Detail records 49.20
Posting sales invoices by line-entry 49.20
Example consignment 49.20
Accounting action 1 - Prepaid and Collect invoices 49.21
2 - Accept supplier currency invoice 49.21
3 - Accrue and close/profit the job 49.21
4 - Issuing a supplementary credit 49.22
5 - Carry forward outstanding accruals 49.23
6 - Accept actual charge against accrual 49.23
7 - Closure of Sectional accruals reference 49.23
Detailed analysis of accounting records of sample sequence 49.26
Accounting position after action 1 49.27
after action 2 49.31
after action 3 49.35
after action 4 49.39
after action 5 49.43
after action 6 49.47
after action 7 49.51
Chapter circulation list and history 49.

Chapter 50 - NTRIALMH -Integrated accounting system audit 50. 7
Introduction 50. 8
The starting point 50. 9
General ledger accounts 50. 9
Input validation 50. 9
Increasing automatic input 50.10
On-line data 50.10
Interrogation of off-line accounting history 50.10
Year-end procedures - summary 50.10
Method of journalling 50.11
Sample year-end situation 50.11

General ledger accounts 50.11
Customer/Supplier personal accounts 50.12
Program action 50.12
Resultant situation 50.13
Trial Balance update 50.13
Running the report program 50.13
Enter required financial year 50.13
Process up to and including month 50.14
Include nominally related companies 50.14
Print trial balance 50.14
Print balance sheet & profit/loss statement 50.14
Style of profit/loss & balance sheet 50.14
Print debtors and creditors listing 50.15
Print outstanding balance analysis 50.15
Required accounting month to inclusive cut-off 50.15
Operational month cutoff 50.16
Remote printing of job costing reports 50.16
Trailer/Groupage summary report 50.17
Print job costing summary report by section/month 50.17
Print job costing one line report by section/month 50.19
Print job costing excluding accruals one line/job 50.18
Print detail ledger costing by section/month 50.18
Appendix A - Run time parameter screen picture 50.19
Appendix B - Example postings & automatic general ledger journals 50.20
Chapter circulation list and history 50.

Chapter 51 - Integrated accounting system audit 51. 3
Introduction 51. 4
Bishopsgate formal audit offer 51. 4
Training company for testing 51. 5
Audit-period 51. 6
Clearing training company financial transactions 51. 6
Warning to staff 51. 7
Methodology of financial audit 51. 7
Boffin/Open audit SQL*Scripts and Forms 51. 8
Trading items for accounting months of audit-period 51. 9
Ensure all OPENFILE postings, fully processed 51. 9
Trial balance update 51.10
Trial Balance run totals are zero 51.10
Formal consistency of accounting data 51.11
Reconciliation of accounting data by original voucher 51.12
Obtaining details of formally incorrect accounting vouchers 51.12
Check all General Ledger items with Job No are trading a/cs 51.12
Check all General Ledger items with no Job No are not trading 51.13
Check all Openfile account letters are in line with Anames 51.13
Balance sheet items should all have Cost Centre1000 51.14

Non Balance Sheet items should not have Cost Centre 1000 51.15
Correct cost centre numbers - for cost centre 1000 51.15
Check Balance Sheet trading accruals only have Accruals Job 51.15
Check all personal account matches aggregate to zero 51.16
Check the formal integrity of each accounting months data 51.18
Financial Reconciliation report for Audit-Period 51.18
New Systems checking the personal account opening balances 51.18
Check all trading cost-files for audit-period are profited 51.19
Check all trading accruals for closed months aggregate to 0 51.20
Check all pending accruals are on correct accruals job number 51.21
Proving the consistency of cost-file gross profits 51.21
(SLAUDITP) - Gross-Profit assessment per accounting-month 51.22
Financial year opening balances 51.23
Management Month-end Report pack 51.23
Detail support for Sales Control account 51.24
Detail support for Bought Control account 51.25
Detail support for Trial Balance account totals 51.25
Detail list of Trading accruals 51.25
Boffin/Open general ledger & personal a/c control accounts 51.29
Sales ledger control account 51.29
Bought Ledger control account 51.31
VAT Control for sales ledger accounts 51.33
VAT Control for bought ledger accounts 51.35
Inter-accounting month NLBKTSFR early trading items 51.36
Inter-accounting month NLPRTSFR late trading items 51.37
Inter-accounting month NLOVRADJ overhead periodisation 51.38
Personal account write-offs 51.39
Differences in exchange 51.40
General ledger a/c for Forwarding Revenue - normal 51.41
General ledger a/c for Forwarding Revenue - IDs 51.41
General ledger a/c for Forwarding Revenue - Group a/cs 51.42
General ledger a/c for Forwarding Disbursements - Normal 51.42
General ledger a/c for Forwarding Disbursements - IDs 51.42
Sales ledger duty control 51.42
Bought ledger duty control 51.43
Sales/Bought personal account transfers 51.43
General ledger transfers 51.44
Personal account opening balances 51.44
Balance Sheet a/c for current year-to-date profit 51.45
General ledger accounts for P&L & B/S trading accruals 51.45
General ledger account for Accruals monthly transfer 51.50
General ledger account for trading accruals write-offs 51.50
General ledger account for accruals write-offs to B/S 51.51
General ledger account for accruals write-offs from B/S 51.51
General ledger account for profiting transfers control a/c 51.52
General ledger account for Work-in-Progress control 51.52

General Ledger/Sales Ledger transfers 51.53
General Ledger/Bought Ledger transfers 51.53
Sales invoice numbers control 51.53
Reallocation cost centres control accounts 51.54
Chapter circulation list and history 51.

Chapter 52 - In search of additional profits 52. 1
Introduction 52. 2
Background 52. 2
The Boffin/Open system 52. 2
Accounting and operational months 52. 3
The Boffin/Open promise 52. 3
Boffin job numbers 52. 4
Statistical and financial gross profit reporting 52. 4
Trading accrual accounting 52. 4
The method, in summary 52. 5
Single management report pack 52. 6
Checks & controls - Zero Trial balance grand totals 52. 6
- The value of outstanding trading accruals 52. 7
- Acceptability of overheads 52. 7
- Trial balance versus job cost gross profit 52. 8
Backward and Forward trading item general ledger journalling 52. 9
Bishopsgate helping in the investigation 52. 9
The user's & DMAY conversation of 17/03/95 52. 9
1994/95 Year-end trading plus overhead accruals in Statutory 52.10
Gross profit margin check 52.11
Bishopsgate conversation with the user's accounts 52.11
Bishopsgate detail exercise on NY supplier account 52.12
Bishopsgate one line job cost, without accruals processing 52.12
Chapter circulation list and history 52.

Chapter 53 - Support for Internal Debits (IDs) 53. 5
Introduction 53. 6
Operating departments as Profit Centres 53. 6
Inter-departmental charging 53. 6
Control of Internal Debits 53. 6
ID personal accounts 53. 7
Booking cargo movements for internal departments 53. 7
Sales charging, using Ids 53. 7
ID invoice set 53. 8
Personal account enquiry 53. 8
Profit/Loss reporting 53. 8
Over-statement of Gross Profits 53. 8
Boffin 'Extended ID Accounting' 53. 9
Method of extended processing 53. 9
Supplier department invoicing 53. 9

Additional and immediate ledger record 53. 9
Reallocation of incoming Ids, where full job no was not known 53.10
Possible international export booking modification 53.10
Possible international import booking modification 53.11
National Department Pool/Job number link 53.11
Opportunity to monitor incoming 'EDI' National Cargo Bookings 53.11
Regular National Department cargo booking 53.11
National Department incoming booking monitor 53.12
Automatic conversion of pending pool numbers 53.12
Reduction in invoice set 53.12
Benefits 53.13
Chapter circulation list and history 53.

Chapter 54 - Sample of Management month-end 54. 2
Introduction 54. 2
The scenario 54. 3
Important tips 54. 4
Urgency and runtimes 54. 4
Accounts copy sales invoices 54. 4
Boffin/Open Accounting introduction 54. 5
Timing of Management Month-end 54. 6
Management month-end, shared session 54. 6
Running aspects of the management month-end in parallel 54. 7
Thinking ahead 54. 7
DAYEND run to clear log files 54. 9
Current accounting month is AUG97 54. 9
Check Boffin/Open SYSQUE 54.10
Sales invoicing checking 54.10
International traffic bulk sales invoicing 54.11
National System bulk invoicing 54.
Acceptance of internal-debits 54.
Transfer of remote office data to Accounting Centre 54.
Run ADISKIN to accept remote site accounting data 54.
Remote closure of subordinate site accruals references 54.
Monthly standard general ledger journal(s) 54.11
Charging out Trailer-Park charges to National Department 54.10
Automatic closing of German National department detail files 54.80
Manual closing of remaining German National cost files 54.80
APROFIT used to close detail trading cost files 54.80
Searching for missing job numbers 54.81
Linking all international import groupage units 54.82
Closing international groupage master cost files 54.82
AACRCHCK to confirm all cost files closed 54.83
SECTIONS to reset Accruals References to next "C" 54.83
Use SPDEFLT to set oldest acceptable Job Number month letters 54.83
Terminal operators to logoff and logon 54.84

AACRCLOS to close departmental accrual references 54.84
Boffin/Open design considerations 54.85
Trading contents of APR95 - JUN95 Accounting Months 54.85
Objectives of journalling routines and what journals to run 54.86
Bringing forward 1993 balance sheet totals 54.86
Computer run schedule - general 54.86
Full database backup 54.86
National Department, Groupage master costs, apportionment 54.87
International Exports Groupage master costs, apportionment 54.87
International Imports Groupage master costs, apportionment 54.87
Use NLOVRADJ to APR95-JUN95 overhead periodisation 54.88
Use NLPERIOE, overhead reallocation JAN94 - JUN94 54.88
Use NLBKTSFR, as required by SLAUDITP 54.89
Use NLPRTSFR, as required by SLAUDITP 54.89
Status of APR95 - JUN95 Accounting month contents 54.90
Use NTBUPDAT to update 1995 Trial Balance to date 54.90
Use NTRIALM to confirm TO-DATE balances 9997/9998 54.90
Use NTRIALMH to run 1995 Trial Balance to MAY95 result 54.91
Short database backup 54.91
SPOPENCT to provide record counts 54.91
DAYEND to empty OPENDALY & AUDITLOG, backup done 54.92
Reserving personal accounts for remote sites 54.92
Appendices 54.94
Appendix A - System Defaults control accounts 54.94
Appendix A1 - Valid operational month parameters 54.95
Appendix B - SLAUDITP Parameter screen design 54.96
Appendix B1 - SLAUDITP report before journals 54.97
Appendix B2 - SLAUDITP report after journals 54.98
Appendix C - NLBKTSFR sample screen 54.99
Appendix D - NLPRTSFR sample screen 54.100
Appendix E - NTRIALMH Integrated Reports - RESULT 54.101
Appendix F1 - APROFIT Close May95 cost files 54.112
Appendix F2 - APROFIT Detail screen image 54.103
Appendix G1 - AACRCLOS Close May95 accruals files 54.104
Appendix G2 - AACRCLOS Detail screen image 54.105
Appendix H1 - AACRCHCK Check Apr95-May95 files closed 54.106
Appendix H2 - AACRCHCK Detail screen image 54.107
Appendix I - Accounting months contents 54.108
Appendix J - Things to check after Month-end 54.109
Chapter circulation list and history 54.

Chapter 55 - Job Costing, monitoring and corrections 55.
Introduction 55.
Internal audit and correction of job costing 55.
Chapter circulation list and history 55.

Chapter 56 - SAP interface with Boffin rating system 56. 1
Introduction 56. 2
Chapter circulation list and history 56.

Chapter 57 - Port operations - Container control 57. 1
Introduction 57. 3
Word processing standards 57. 3
Text convention 57. 4
Boffin variations 57. 4
Initial open-system version 57. 5
OSF - X-Windows support 57. 5
Proposed content of Release 2 for Beira 57. 5
Bishopsgate's brief 57. 8
Bishopsgate's proposal 57. 8
Booking volumes 57.10
Data conversion 57.10
Computer installation 57.10
Computer hardware and operating system 57.10
Continuous operations 57.11
Screen languages 57.11
Printing reports 57.11
Duplex printing support 57.12
Accounts copy sales invoice printer 57.13
Boffin reports for importing into Excel (and other) spreadsheets 57.13
Automatic electronic print archiving 57.15
Human operators, changing their own passwords 57.16
Authorised users - Private spreadsheets, word processing etc 57.16
Multiple human logons 57.17
Boffin/Open menus 57.18
Menu interrupt 57.18
Application suite access security 57.19
Changing user-company 57.20
Hot key 57.20
Training database 57.21
User-group 57.21
User-companies 57.22
Marketing companies 57.22
Group directors directory 57.23
Group credit controllers 57.24
Default allocation of customer accounts to Director/Controller 57.24
Sales-person/sub-agent directory 57.25
Worldwide postcode directory 57.26
Worldwide town name directory 57.26
Operational divisions 57.27
Operational branches 57.27
Operational sections 57.28

Exchange rate directory 57.29
Exchange rate archiving option 57.29
General ledger cost centres 57.29
General ledger accounts 57.30
Personal account numbers 57.31
Applying VAT decision 57.31
Accounting months 57.31
Operational months 57.32
Details of customers 57.33
Details of potential customers 57.33
Sales invoicing 57.34
Sales bulk invoicing 57.36
Support for internal debiting 57.36
Supplementary invoicing 57.38
Printing copy sales invoices and credit notes 57.39
Application screen text languages 57.40
Client-PCs running with Portugese keyboards 57.40
Data-entry of variable data and conventions 57.40
Importance of dates, their format and the rules 57.40
Importance of times, their format and the rules 57.41
Special rules for date and time entries within container tracking and tracing 57.42
Container control reporting - general 57.42
Boffin/Open base system 57.43
Container stock handover 57.43
Container Park (ownership) handover date 57.45
Worldwide place-name directory 57.45
Commodity directory 57.45
Hazardous cargo United Nations commodity number 57.46
Shipping line directory 57.46
Shipping lines - Empty container daily quotas and storage rates 57.46
Hazardous cargo classes directory 57.49
Container Control statistics dates 57.49
Boffin/Open container control static data tables 57.50
Container types - classes 57.50
Container type directory and implications of container-type codes 57.51
Boffin/Open check-digit job numbers 57.51
Boffin/Open container control volatile tables 57.53
Main container details table 57.53
Container tracking & tracing records 57.55
Container terminal stock 57.57
Empty containers - clarification 57.58
Critical dates of entry/exit from container terminal and latest E/F indicator 57.59
Information source for each tracking record 57.61
Import, Import-transit and Import-unknown container processing 57.62
Export, Export-transit and Export-unknown container processing 57.62
Transhipment containers on the ocean-side 57.63

Transhipment containers on the landside, including visiting trucks 57.65
Transhipment containers from the ocean-side 57.65
Empty container processing 57.67
Containers arriving at the terminal by Road, Rail and Barge 57.69
Detailed information relating to landside containers arriving 57.69
System actions from (CGATEIN) or (CBARGEIN) or (CRAILIN) per unit 57.73
Need for the ability to physically delete a complete current booking 57.74
Release of import and import-transit containers through the main-gate etc 57.75
System actions for (CGATEOUT), (CBARGOUT) & (CRAILOUT) per unit 57.79
Container booking process 57.79
Export, Export-transit and Export-unknown container processing 57.85
Container control module 57.86
International container number prefixes 57.86
Shipping line directory 57.86
Location of containers in physical storage 57.87
Container storage location - diagram 57.88
- visualisation 57.89
- Boffin companies 57.89
- Container terminals 57.89
- Zones within container terminals 57.90
- Lanes within Zones 57.91
- Positions within Lanes 57.91
- Stacks within positions 57.92
- Special locations 57.93
Container booking 57.94
Container terminal (CREIN) Full inventory reporting 57.95
Derivatives of Full Inventory Reports - Serial filters 57.97
Container full booking details report - (CDETAILS) 57.98
Mass production of full booking details report (CMASSDTL) 57.98
Container Discharge List (CREUL) 57.99
Container Loading List (CRELL) 57.101
Hazardous cargo list (CREHA) 57.102
Empty container list (CRMTY) 57.103
Gate-in report (CREGI) 57.104
Gate-out report (CREGO) 57.104
Loaded containers report (CLOADED) 57.105
Container dwell time reporting (CREDL) 57.106
Container bookings - Logical error list - (CREER) 57.107
Supplementary sales invoices and credit notes 57.108
Full container storage invoicing on EXP/EXT/EX? traffic (CFULLINV) 57.111
Empty container storage on all traffic types (CMTYINV) 57.114
Month-end statistics close (IPURCOPY) 57.121
Management summary 1 - Analysis of Inventory by Line/Traffic/Class 57.122
Management summary 2 - Analysis of Inventory by Line/Traffic/Class/days 57.123
Management summary 3 - Aged container terminal throughput analysis 57.125
Management summary 4 - Searching for inaccurate discharge dates 57.127

Appendix A	- Container control module, programs list	57.131
Appendix B1	- Shipping lines involved in Beira port operations	57.133
Appendix C1	- Shipping line container number prefixes	57.141
Appendix D3	- Terminal/Zone entries required for Beira	57.155
Appendix D9	- Port of Beira Stack numbers required	57.157
Appendix F	- Container control pool file (CPOOL) file format	57.177
Appendix G	- Container tracking entry rules	57.181
Appendix G1	- Authorise container tracking information sources	57.195
Appendix G2	- Authorised container tracking operands	57.197
Appendix G3	- Description of use and considerations for each tracking rec	57.199
Appendix H	- Release 3 modifications to accommodate Multiple life'd	57.209
Appendix I	- Tracking and Tracing standards for different traffic types	57.219
Appendix I1	- Standard container import to the local country	57.221
Appendix J	- Sales invoicing of container control system	57.225
	- Container control sales invoicing	57.225
	- Sales invoice printing standards	57.225
	- Introduction of a 'Breakdown of Charges'	57.226
	- Introduction of a 'Breakdown o Charges Archive'	57.226
	- Printing Accounts Copy invoices & Credits in Accounts	57.226
	- Supplementary sales invoice and credit notes (CSUPINV)	57.227
	- Operational details included on invoices & credit notes	57.227
	- Dual language support (CSUPINV), English & Portugese	57.227
	- Possibility of printing invoices in full duplex mode	57.228
	- Software origin of (CSUPINV) program	57.228
	- Injecting a tracking record for each sales invoice produced	57.229
	- Monitoring and pricing container terminal stuff/stripping	57.229
	- Supported sales charge headings	57.229
Appendix K	- Supported sales charge headings as at 01-NOV-1999	57.231
Appendix L	- Empty container storage invoicing details	57.233
Appendix M	- Container control primary sales invoicing	57.239
Appendix M1	- Container control CCHARGES logical record format	57.245
Appendix W	- Container control audit processes	57.251
Appendix X	- Adding the Reefer container storage lanes into the live	57.259
Appendix Y	- Log of events on introducing the module and sequence live	57.269
Appendix Z	- Outstanding issues and modifications	57.275
Chapter circulation list and history		57.289

Chapter 58 - Warehouse Net Cost Price (WNCP) Quotations	58. 1
Introduction	58. 2
Boffin/Open considerations	58. 3
United Kingdom customs tariff	58. 3
United Kingdom Customs Tariff cross reference index	58. 3
Countries and rates of exchange	58. 3
Importer details	58. 4
Buyer directory	58. 4
Supplier directory	58. 4

Imports or a different table 58. 5
Shared process 58. 5
Derivative search program 58. 5
WNCP printing 58. 5
Automatic facsimile transmission 58. 6
VAT at Point-of-Entry 58. 6
Calculation accuracy 58. 6
Booking ‘as per’ feature 58. 6
Rates of exchange 58. 7
WNCP record storage 58. 7
Deletion of WNCP entries 58. 7
IMPWNCP screen design 58. 8
WNCP table creation 58. 9
WNCP booking calling the program 58. 9
Function screen 58. 9
Quotation number 58. 9
Detail screen create and amend 58. 9
Importer 58.10
Quotation number 58.10
Buyer 58.10
Supplier 58.11
Air, Sea or Air/Sea traffic 58.11
Origin route 58.11
Part number 58.12
Commodity description 58.13
Commodity TTCN 58.13
Per carton gross Kilograms 58.14
Per carton dimensions, key 58.14
Per carton dimensions, text 58.14
Items per carton 58.15
Items per shipment 58.15
Cartons 58.15
Cartons gross Cbm 58.15
FOB currency name 58.16
FOB currency item cost 58.16
FOB currency Total cost 58.16
Rate of exchange 58.16
FOB Sterling shipment value 58.17
Ocean freight 58.17
Air freight 58.19
Currency freight to home currency total 58.19
Landside charges 58.20
Value for insurance 58.20
Insurance percentage rate 58.21
Insurance charge 58.21
Value for duty 58.21

Duty 58.21
Total sterling value 58.21
Warehouse delivered cost per item 58.22
Warehouse delivered cost/item no GSP 58.22
Prepared by 58.22
Print WCNP quotation 58.22
Issue BRN Questionnaire number 58.23
Store quotation record 58.23
Facsimile WNCP immediately 58.23
Re-starting 58.23
Detail screen Show function 58.24
Delete function 58.24
Part numbers updating 58.24
Appendix A - WNCP questionnaire design 58.25
Appendix A1 - Sample completed WNCP questionnaire 58.26
Appendix B - IWNCPBOK program function screen 58.27
Appendix B1 - IWNCPBOK detail screen design 58.28
Appendix B2 - IWNCPBOK sample completed detail screen 58.29
Appendix B3 - IWNCPBOK sample FROM function 58.30
Appendix C - WNCP DASD record fields and storage masks 58.32
Appendix D - Buyer logical record fields and storage masks 58.34
Chapter circulation list and history 58.

Chapter 59 - Exporting Boffin/Open tables to MicroSoft Excel V7 59. 1
Introduction 59. 2
Chargeable software utilities 59. 2
Copyright issues 59. 2
The software utility 59. 3
Microsoft Excel environment setup 59. 3
Changing the Boffin/Open target table (file) 59. 3
Accessing Oracle database, locating fields within records & extracting them 59. 3
Repertoire of Boffin/Open table extractions 59. 4
Appendix A - Listing of sample (expcsv. sh) program file 59. 5
Appendix B - Pl/SQL script that builds the temporary extraction script 59. 7
Chapter circulation list and history 59.

Chapter 60 - Beira Port operations general cargo, export 60. 1
Introduction 60. 2
Chapter circulation list and history 60.

Chapter 61 - Beira Port operations general cargo, import 61. 1
Introduction 61. 2
Chapter circulation list and history 61.

Chapter 62 - Beira Port Gate/Entrance control using bar-code reading 62. 1
Introduction 62. 3

Chapter 63 - South African motor vehicle delivery control 63. 1
Introduction 63. 2
Joint venture 63. 2
Computer server 63. 2
Upgrade boffin/Open Inland system for vehicle deliveries 63. 2
Volkswagen South Africa 63. 2
Boffin/Open running continuously 63. 2
VWSA & Boffin/Open telecommunications 63. 3
VWSA CT105E Logical record format 63. 4
VWSA introduction of SAP control system 63. 4
VWSA nothing to send 63. 4
Cycle of VWSA EDI transmissions 63. 4
Actions in the event of a 'missing transmission' 63. 4
Bishopsgate monitoring incoming EDI flat-files 63. 4
VWSA static information - important company relationship 63. 5
VWSA static information - vehicle model codes 63. 5
VWSA static information - vehicle optional extra features 63. 6
VWSA static information - vehicle trim codes 63. 7
VWSA static information - vehicle colours 63. 8
VWSA static information - South African NAAMSA codes 63. 8
VWSA static information - Agreed delivery transport charges 63.10
VWSA - Vehicle bar-coding 63.10
Operational module 63.11
Programming standards 63.11
Traffic control and monitoring 63.11
Operational and Accounting documentation 63.12
Computer environment 63.12
Continuous running, real-time computing 63.12
Software Copyright 63.12
Initial open-systems version 63.12
OSF - X-Windows support 63.13
Proposed content of Release 1 for Port Elizabeth 63.13
Container control reporting - general 63.15
Boffin/Open base system 63.15
Container control module 63.16
International container number line-prefixes 63.16
Location of containers in physical storage 63.16
Container storage location diagram 63.17
Container storage location - visualisation 63.17
Container storage location - Boffin companies 63.17
Container storage location - Container terminals 63.18
Container storage location - Zones within container terminals 63.18
Appendices 63.19
Appendix A - Bar-code scanner gun location directory 63.19
Appendix B - Bar-code gun type '01' (intelligent) - Logical record 63.23
Appendix C - Bar-code gun type '02' Logical record format 63.27

Appendix D - Vehicle delivery option, installation instructions 63.31
Appendix E - Format of the VWSA EDI booking record CT105E 63.37
Appendix F - Application of CT105E EDI bookings to Boffin/Open 63.39
Appendix G - Contents of Client-PC that receives VWSA bookings 63.73
Appendix H - Retrieving VWSA vehicle delivery information FTP 63.75
Appendix H1 - Recovery after a failed FTP session 63.83
Appendix I - Obtaining a convoy manifest via spreadsheet 63.85
Appendix J - Installing Oracle SQLLDR to support bar-code guns 63.87
Appendix K - Forecourt Friday bulk sales invoice to VWSA 63.89
Appendix L - VWSA EDI daily run of data from CTS/Forecourt 63.91
Appendix L1 - Modifying daily CTVEHLOC to allow manual edit 63.93
Appendix M - Bar-code scanner downloading 63.95
Appendix N - Pricing amendments and their implications 63.107
Appendix N1 - 63.119
Appendix N2 - (updatnam) update VEPOOL consignee dealer 63.121
Appendix N3 - (updatchrg) update non-deleted bookings, prices 63.123
Appendix N4 - (updatchrg2) update invoiced bookings consignee 63.127
Appendix N5 - (updatchrg3) update system with now known dealer 63.129
Appendix N6 - (Updatchrg4) update booking when dealer known 63.133
Appendix N6a - (updatchrg4) update bookings when dealer known 63.135
Appendix N7 - (updatchrg5) update OPENFILE vebulkin records 63.137
Appendix N8 - (updatchrg6) update VEBULKIN with re-priced 63.139
Appendix N9 - (updatchrg7) Re-price all bookings of NAAMSA Z01 63.141
Appendix N10 - Create a tracking file to be sent VWSA 63.143
Appendix N11 - Run script (vehloc1a.sql) 63.145
Appendix N12 - Extract and build the VWSA daily report file 63.147
Appendix N13 - Setup SQLPlus environment 63.153
Appendix N14 - Create temp database table for interesting vehicles 63.155
Appendix O - Produce delivery notes via spreadsheet 63.157
Appendix P - VWSA Monthly EDI FTP Transmission of Yard stock 63.159
Formal circulation list for this chapter 63.161

Chapter 64 - Conversion of Boffin/VS to run with Oracle 7. 3 database 64. 1
Introduction 64. 2
Existing Wang VS COBOL system 64. 3
Oracle PRO-COBOL 64. 3
Micro-Focus COBOL-85 64. 3
Important required COBOL facilities 64. 3
Existing Bishopsgate COBOL conversion software 64. 3
Future Bishopsgate COBOL dialect conversion(s) 64. 3
Decision on COBOL dialect conversion method 64. 3
In-house conversion development tool 64. 3
Third party COBOL conversion software 64. 3
Denkart NV - Belgium 64. 3
Sticky Corporation - Australia 64. 3
Micro-Focus 64. 3

Operating system selection 64. 3
Microsoft NT server 64. 3
Sco-Unix Server 64. 3
Office automation, availability and integration 64. 3
Telecommunications protocol 64. 3
Mixed hardware and operating system LAN/WANs 64. 3
Microsoft Windowing products 64. 3
Use of X-Windows 64. 3
Year 2000 compliance 64. 3
Once-off or recurring COBOL conversion 64. 3
Boffin/VS programs to be converted 64. 3
Oracle database table creation exercise 64. 3
Appendix A - Boffin/KY program content at 13th January 1999 64. 3
Appendix B - Boffin/VS program content at 13th January 1999 64. 3
Chapter circulation list and history 64.

Chapter 65 - Port operations, vessel planning 65. 1
Introduction 65. 2
Background to this Boffin chapter 65. 2
Boffin variations 65. 2
Computer installation 65. 3
Computer hardware and operating system 65. 3
Continuous operation 65. 4
Report languages 65. 4
Human operators, changing their own password 65. 5
Authorised users - Private spreadsheets, word processing etc 65. 5
Multiple human logons 65. 6
Boffin menus 65. 6
Menu interrupt 65. 7
Changing user-company 65. 7
Hot-key 65. 8
User-group 65. 8
User-companies 65. 9
Marketing companies 65.10
Tide tables 65.10
Container types directory 65.10
Granite and copper shipments 65.11
Public holidays 65.12
Absentee labour 65.12
Gang charging rates 65.13
General ledger cost centres 65.13
Hierarchy of various components 65.14
Definition of days of the week and work-shift times 65.15
Staff working a normal working day 65.15
Staff changing shifts 65.15
Initial setup of human resources 65.16

Availability of equipment resources 65.16
Broken equipment and equipment being repaired 65.17
Gang selection limitations 65.17
Which voyage records to include in the reports 65.17
Ocean vessel directory 65.18
Commodity code directory 65.19
Gang delay reasons directory 65.20
Initial creation of vessel details 65.20
Availability of table creation script 65.20
Usage of the logical records 65.21
Notification of Vessel/Voyage numbers 65.21
Setup applicable voyage numbers 65.23
Presence of vessel record 65.24
Timing of Voyage record creation 65.25
Amending Voyage records 65.25
Deleting Voyage records 65.25
Running current week voyage schedule 65.25
Weekly planning schedule 65.26
Running 4-weekly voyage schedule 65.27
Work gangs general 65.28
Weekend working - increased rates 65.28
Charging of resources to Vessels/Voyages 65.28
Gang functions - Humans and machines 65.29
Gang resources directory 65.30
Coding of the entire CFM Railways labour pool 65.33
Building a gang-record 65.33
Conflicting use of human and machine resources 65.33
Preferential selection of labour-pool staff 65.34
Changing Voyage ETA/ETD information 65.34
Post gang-session update 65.34
Dirty surcharge per gang session 65.35
Overtime charge per gang-session 65.36
Supporting a notepad facility per gang resource 65.36
Weekly and 4-weekly planning schedule 65.36
Complete gang report 65.36
Charging the gang-shift to the Vessel/Voyage 65.37
Weekly invoice from CFM for labour pool 65.37
Appendix A - Gang functions - suggested authorised entries 65.41
Appendix B - Table descriptions GANGFUNC 65.43
Appendix C - Table descriptions IPURRESC 65.45
Appendix D - Containers expected to be loaded - detail input screen 65.47
Appendix D1 - Containers expected to be loaded, sample full screen 65.48
Appendix D2 - Containers expected to be loaded - sample empty screen 65.49
Appendix F - Table descriptions IPURGANG Gang buildup 65.51
Appendix G - Gang buildup amendment screen image and descriptions 65.57
Appendix G1 - End of shift gang reporting - Container discharge 65.59

Appendix G2 - End of shift gang reporting - Container loading 65.60
Appendix G3 - End of shift gang reporting - Container shifting 65.61
Appendix G4 - End of gang shift reporting - General cargo 65.62
Appendix G5 - End of gang shift reporting - Delay details 65.63
Appendix H - Sample gang booking and report after completed shift 65.64
Appendix H1 - End of gang shift reporting - Container discharges - sample 65.65
Appendix H2 - End of gang shift reporting - Container loading - sample 65.66
Appendix H3 - End of gang shift reporting - Container shifting - sample 65.67
Appendix H4 - End of gang shift reporting - General cargo - sample 65.68
Appendix H5 - End of gang shift reporting - Delay details - sample 65.69
Appendix I - Delay/stoppages directory, initial entries 65.71
Appendix J - International Public Holidays directory 65.75
Appendix K - Planning, absence staff member register 65.77
Chapter circulation list and history 65.

Chapter 66 Warehouse Nett Cost Price quotations 66. 1
Introduction 66. 2
Boffin/Open considerations 66. 3
United Kingdom customs tariff 66. 3
United Kingdom Tariff Cross-Reference index 66. 3
Countries and Rates-of-Exchange 66. 3
Importer details 66. 4
Buyers directory 66. 4
Suppliers directory - Consignors 66. 4
Imports or a different table 66. 5
Shared process 66. 5
Derivative of (IFIND) search process 66. 5
WNCP printing 66. 5
Automatic facsimile transmissions 66. 6
VAT at Point-of-Entry 66. 6
Calculation accuracy 66. 6
Booking 'as per' feature 66. 6
Rates-of Exchange 66. 7
WNCP record storage 66. 7
Deletion of WNCP entries 66. 7
IWNCP screen design 66. 8
IMPWNCP table creation 66. 9
WNCP booking - function screen 66. 9
- quotation number 66. 9
- detail screen - Create and Amend 66. 9
- Importer 66.10
- Quotation number 66.10
- Buyer 66.11
- Supplier/Consignor 66.11
- Air or Sea or Combined traffic 66.11
- Origin route 66.12

- Part number 66.12
- Commodity description 66.13
- Commodity TTCN 66.13
- Per carton gross kilograms 66.14
- Per carton dimensions 66.14
- Items per carton 66.15
- Items per shipment 66.15
- Cartons 66.15
- Total gross Cbm 66.16
- FOB Currency name 66.16
- FOB Currency item cost 66.16
- FOB Total currency cost 66.16
- Rates of Exchange 66.16
- FOB Home currency shipment value 66.17
- Ocean freight 66.17
- Air freight 66.19
- Conversion of currency to home 66.20
- Landside charges 66.20
- Value for Insurance 66.21
- Insurance percentage rate 66.21
- Insurance charge 66.21
- Value for duty 66.21
- Duty 66.21
- Total home currency value 66.22
- Warehouse delivered cost per item 66.22
- Warehouse delivered cost no GSP 66.22
- Prepared by identification 66.22
- WNCP printing 66.23
- Issue questionnaire number 66.23
- Storing records 66.23
- Facsimile transmissions 66.23
- Re-starting 66.24
- Show function 66.24
- Delete function 66.24
- Part numbers updating 66.25

Appendix A - WNCP Questionnaire design 66.27
Appendix A1 - Sample completed WNCP Questionnaire 66.29
Appendix B - IWNCPBOOK function screen design 66.31
Appendix B1 - IWNCPBOK detail screen design 66.33
Appendix B2 - IWNCPBOK completed screen design sample 66.35
Appendix B3 - IWNCPBOK FROM function detail screen design 66.37
Appendix C - WNCP DASD record fields 66.39
Appendix D - Buyer record fields 66.41
Chapter circulation list and history 66.

Chapter 67 - Virtual Machine support (more than 1 operating system running) 67. 1
Introduction 67. 2

Chapter 68 - Asset register processing 68. 1
Introduction 68. 2
Suite summary 68. 2
This chapter, intention 68. 2
Text convention 68. 3
Boffin variations 68. 3
Booking volumes 68. 4
Data conversion 68. 4
Computer installation 68. 4
Computer hardware and operating system 68. 4
Currently supported computer environments 68. 5
OSF - X-Windows support 68. 5
Continuous operation 68. 5
Computer installation numbering 68. 6
Some details about Client-PCs 68. 6
Some details about Oracle 9i and Thin-Client-PC support 68. 7
Screen languages 68. 8
Logon sequence and creating a user-environment 68. 8
Continuous operation 68. 9
Printing reports 68.10
Duplex printing support 68.11
Boffin reports for importing into Excel (and other) spreadsheets 68.11
Automatic electronic print archiving 68.12
Human operators, changing their own password 68.13
Authorised users - Private spreadsheets, Word processing etc. 68.14
Multiple human logons 68.15
Boffin menus 68.15
Menu interrupt 68.16
Application suite access security 68.16
Multi user-company system 68.17
Changing user-company 68.17
Hot-key 68.18
Training database 68.18
User-group 68.19
User-companies 68.19
Marketing companies 68.20
Use of the Asset Register software suite within a Marketing company 68.20
Training company 68.21
Ability to charge depreciation to a Project 68.21
Operational divisions 68.22
Operational branches 68.22
Operational sections 68.23
Route control record 68.24

Exchange rate directory 68.24
Exchange rate archiving option 68.25
General ledger cost centres 68.25
General ledger accounts 68.25
Personal account numbers 68.26
Accounting months 68.27
Operational months 68.27
Asset location 68.28
Asset depreciation regularity 68.28
Re-valuation of individual, nominated asset(s) 68.28
Asset families 68.28
Asset depreciation methods 68.28
Asset aster record 68.28
Open-item depreciation journals 68.29
Open-item asset re-valuation journals 68.30
Consistency of current book value 68.31
Appendix A - Pre-requisites of the Boffin Asset Register sub-system 68.33
Appendix B - Installation process for the Asset register module 68.35
Appendix C - Asset master record maintenance screen images 68.41
Appendix D - Procedure for creating the initial Asset Master directory 68.43
Appendix E - Asset Register table formats and descriptions 68.47
Appendix E1 - Asset master file format 68.49
Appendix E2 - Asset Register Depreciation Methods table format 68.71
Appendix E3 - Asset Register Locations directory format 68.75
Appendix E4 - Asset Register Families directory record format 68.79
Appendix E5 - Asset Register Departments directory 68.81
Appendix E6 - Asset Register Tracking record format 68.83
Appendix F - Asset booking process described 68.85
Appendix G - Frequently asked questions - Asset Register 68.93
Appendix Z - Remaining software issues 68.95
Chapter circulation list and history 68.

Chapter 69 - Kenya Revenue Authority Boffin/Unix system development 69. 1
Confidentiality statement 69. 2
Notices 69. 3
Circulation list & Location of Word Processing master document 69. 4
Introduction 69. 5
Legacy hardware systems 69. 5
Boffin/VS application software 69. 5
Change of hardware system(s) 69. 5
Selection of the Unix operating system - Sco-Unixware 69. 5
Terminal emulation and printer services - JSB Multiview 69. 5
Convert the Boffin/VS application or re-write in pure Oracle Forms/reports 69. 6
Bishopstrade conversion of the Boffin/VS application to Acu-COBOL 69. 6
Pilot Boffin/Unix project 69. 6
KRA new server for Boffin/Unix 69. 6

Bishopstrade new server for Boffin/Unix 69. 6
Complexity of setting up a multi-layered system 69. 7
Initial release of the Boffin/Unix with WTO application(s) 69. 7
KRA Unix team difficulties in using the March-2001 Release 69. 7
Impasse 69. 8
Bishopstrade offer 69. 8
The latest set of Boffin/Unix documentation 69. 8
Preparation of a database list of application tables 69. 8
Preparation of Database table formats as an appendix to this manual 69. 9
Demonstration to John Reid and David Naber of the Boffin/Unix system 69. 9
Bishopstrade building another demonstration Boffin/Unix server 69. 9
Checking exercise to confirm the KRA database tables have latest format 69. 9
Appendix A - Boffin/Unix Acu-COBOL programs 69.13
Appendix B - Boffin/Unix Oracle table creation programs 69.23
Appendix C - COBOL program views of logical record formats 69.27
Chapter circulation list and history 69.

Chapter 70 - Automatic e-mail interface 70. 1
Introduction 70. 2
International standards for type of file transmitted by e-mail 70. 2
Compatibility with sending e-mail products 70. 2
Structure of automatically produced out-going emails 70. 2
Boffin/Open auto-facsimile master switch 70. 3
Boffin/Open auto-email master switch 70. 3
Third party software computer language 70. 3
Location of additional third party software 70. 3
Third party software parameters 70. 3
Host computer installation setup 70. 4
Configuration 1 70. 4
Configuration 2 70. 4
Computer device addressing standards 70. 4
Compatibility of out-going and PCL5e compliant print files 70. 4
Additional print line information embedded within print files 70. 5
New Boffin/Open out-going e-mail directory 70. 5
New Boffin/Open out-going facsimile directory 70. 5
Reason for separate email and facsimile transmission directories 70. 6
Boffin/Open new logical printers for email and facsimiles 70. 6
Required updates to the Boffin/Open application to support auto e-mailing 70. 6
Supporting the two master switches as global variables 70. 6
Surface exports - Route control record format update 70.6
Update the COMPANYS table record format to include 2 new logical printers 70. 7
Update the WSDEFLTS table logical record format to include 2 new printers 70. 7
Surface export linked manifest (ESURMFSU) automatic e-mail transmission 70. 8
Call from Boffin/Open to the automatic outgoing e-mail transmitter 70. 9
Call from the Boffin/Open to the automatic outgoing facsimile transmitter 70.10
Appendix A - Installation instructions 70.11

Creation of required directory 70.11
Optional mapping of 'bmsemail' 70.11
Create the LISemail sub-directories 70.11
Contents of the email sub-system CD-ROM 70.11
Installing the LISMAIL runtime 70.12
Initial setup of the LISemail runtime parameters 70.12
Setting up the automatic e-mail body text 70.13
Setting up the out-going e-mail Subject Line 70.13
Exit the Setup option 70.13
Adding the startup to the Desktop Start Menu 70.14
Continuous running 70.14
Automatic closedown of the automatic email subsystem, on Close 70.14
Appendix Z - Outstanding software issues 70.15

Chapter 71 - Surface exports - automated Proof-of-Delivery processing 71. 1
Introduction 71. 3

Chapter 72 - Development of the electronic operations control file 72. 1
Introduction 72. 2

Chapter 73 - Processing incoming EDIFACT manifest information 73. 1
Introduction 73. 3
Proposal 73. 3
Expected benefits 73. 3
Starting point of the project 73. 3
Continuous running system 73. 4
Data standards 73. 4
Proposed Customs & Excise EDIFACT server 73. 4
Scope of the project 73. 5
Shipping companies 73. 5
Airline companies 73. 5
Transport companies 73. 5
Railway companies 73. 6
Appendix A - Installation instructions for Windows PC 73.
Chapter circulation list and history 73. 7

Chapter 74 -Direct Trader Input (DTI) Expansion for Kenya Customs & Excise 74. 1
Introduction 74. 3
Proposal 74. 3
Expected benefits 74. 4
Starting point of the project 74. 4
Continuous running system 74. 5
Data standards 74. 5
Proposed Customs & Excise EDIFACT server 74. 5
Setup of a test system 74. 6
Joining the Scheme 74. 6

Technical information pack for approved users 74. 7
Availability of a demonstration user system in Nairobi 74. 7
Customs Entry Electronic Transmission standards 74. 7
EDIFACT technical information 74. 7
EDIFACT 'CUSDEC' coding and decoding software 74. 7
Multiple Customs Entries per inbound transmission 74. 8
Customs Entry - Unique Commercial Reference 74. 8
Permitted mix of Customs Entries per inbound transmission 74. 8
Kenya DTI Badge Families 74. 8
Kenya DTI Badges 74. 8
Use of Kenya DTI Badges indifferent Longroom locations 74. 9
Automatic download of Kenya Customs & Excise exchange rates to users 74. 9
Exchange rates applicable to any given Customs Entry 74. 9
Automatic download of Kenya Customs Tariff details 74. 9
Automatic download of Kenya Customs Tariff index details 74. 9
Tracking & Tracing of events involved per Entry 74. 9
Confirming Receipt of an Entry 74.10
Moving a Declaration in te Queue of incomplete Declarations 74.10
Acceptance of a Declaration 74.10
User retrieving a printed Declaration 74.10
Failed Declaration processing 74.10
Further processing of successful Declarations 74.11
Chapter circulation list and history 74.13

Chapter 75 - Bishopstrade own website development 75. 1
Introduction 75. 3
Proposal 75. 3
Website hosting 75. 3
Initial costs 75. 3
Hypertext markup language HTML or HTM 75. 4
Location of development Bishopstrade initial website software 75. 4
Bishopstrade website directory and sub-directories 75. 4
Netscape HTML Editor 75. 4
Selected website font 75. 5
Supported Web browsers 75. 5
Style of text pages 75. 5
Registration of domain name 75. 5
Moving the domain name to South Africa 75. 5
Loading the development website pages to the web hosting system 75. 6
Search engine keywords 75. 6
Appendix A - WebsiteBTLUK - HTML pages directory 75. 7
Chapter circulation list and history 75. 9

Chapter 76 - Bishopstrade mini-specification, Mocambique Revenue Service 76. 1
Introduction 76. 3
Size and language for this mini-specification 76. 3

Scope of the interim project 76. 3
Existing systems within the Mocambique Revenue Authority 76. 3
Regional tax office system 76. 4
Availability of email and a website 76. 4
Project data volumes 76. 4
Oracle database installation 76. 4
Local Area Network (LAN) and Oracle server in each office 76. 4
Client/Server architecture 76. 4
Availability of Boffin/open application software 76. 5
Latest release of Boffin/Open 76. 6
Boffin/Open runtime program library on all systems 76. 6
Mocambique Tax Collection application software 76. 6
Bishopstrade's technical offer 76. 6
Tax Collection - Client company details 76. 9
Initial population of the Tax Collection master file 76.10
Tax Collection - Financial transaction keying 76.11
Accounting months 76.11
Multiple financial years 76.11
Mini Financial System at each location 76.12
Master financial system at the Headquarters site 76.12
Truly realtime accounting system 76.13
Correction(s) to financial data 76.13
Open-item general ledger 76.13
Printing reports 76.14
Customer master file, data archiving 76.14
Financial data, data archiving 76.14
Restoring previously archived financial transactions 76.15
Indication of price 76.15
Bishopstrade Software support & maintenance 76.15
Appendix A - 76.17
Appendix B - 76.19
Appendix Z - 76.21
Formal circulation list for this chapter 76.23

Chapter 77 - Bishopsgate application software Internet-based control suite 77. 1
Introduction 77. 3
Proposal 77. 3

Chapter 78 - Customs & Excise Container tracking sub-system 78. 1
Introduction 78. 3

Chapter 79 - Customs & Excise system description 79. 1
Introduction 79.3

Chapter 80 - South African Customs & Excise - CCA1 using EDIFACT 80. 1
Introduction 80. 3

Chapter 81 - Boffin/Open Java development project 81. 1
Introduction 81. 2
Java versions explained 81. 2
Query to a contemporary software house 81. 2
Query to another start-up software house using JAVA 81. 2
Size of existing Boffin/Open application 81. 2
Development hardware and Operating System 81. 2
Creating a development directory 81. 3
Backup of SUSE Linux development directory 81. 3
Boffin/Open JAVA EAA322 development project 81. 3
Boffin/Open JAVA EAA322 development programs 81. 4
Technical contents of the development JAVA application software 81. 4
Learning to work with Oracle JDeveloper 81. 4
Creating a Boffin/Open test and development and test environment 81. 4
Creation of the initial four database table maintenance JAVA programs 81. 5
Introduction of a small menu system 81. 5
Application printing from with JAVA programs 81. 6
Creation of JAVA JAR files 81. 6
Possibility of running the SUSE JAVA JAR file under Red-Hat Linux 81. 6
Possibility of running the JAVA application under Microsoft Windows 81. 6
Possibility of running the JAVA application from within a web browser 81. 7
Running the JAVA application under Microsoft Internet Explorer 6 81. 7
Running the JAVA application under Netscape Version 7.1 81. 8
Proposition-1 Increasing the program content of the JAR file 81. 8
JAVA Runtime environment, new users require 81. 8
Conversion of PL/SQL Forms and Reports to JAVA via Oracle JDeveloper 81. 8
Conversion of PL/SQL Forms and Reports to JAVA via Third Party program 81. 9
Appendix A - Checklist of steps required to setup a new authorised user 81.11
Appendix B - Checklist for building a JAR file - 17-OCT-2003 81.13
Formal circulation list for this chapter 81.15

Chapter 82 - Commissioning Oracle 9i A/S for Microsoft Windows 2000 server 82. 1
Introduction 82. 2

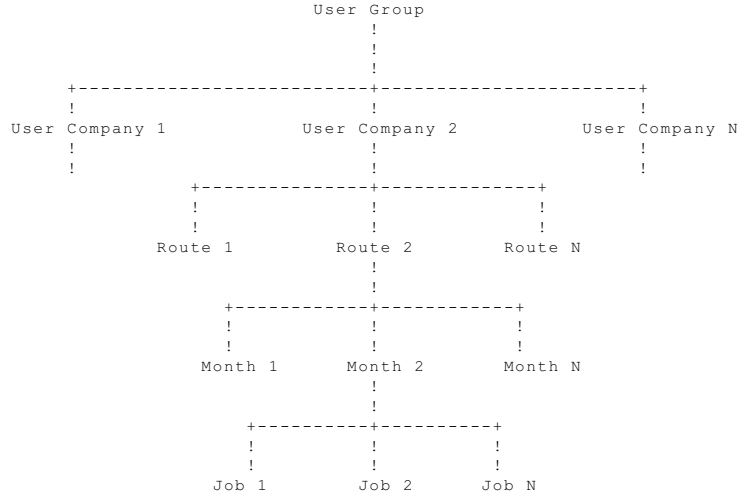
Chapter 83 - Boffin/Open 10i & Oracle 9iA/S Wireless application, cellphones 83 .1
Introduction 83. 2

Bibliography 97.
Introduction 97.
TCP/IP Network Administration 97.
Client/Server Computing with Oracle7 97.
Oracle performance tuning for Oracle7 97.

Glossary 98.
Introduction 98.

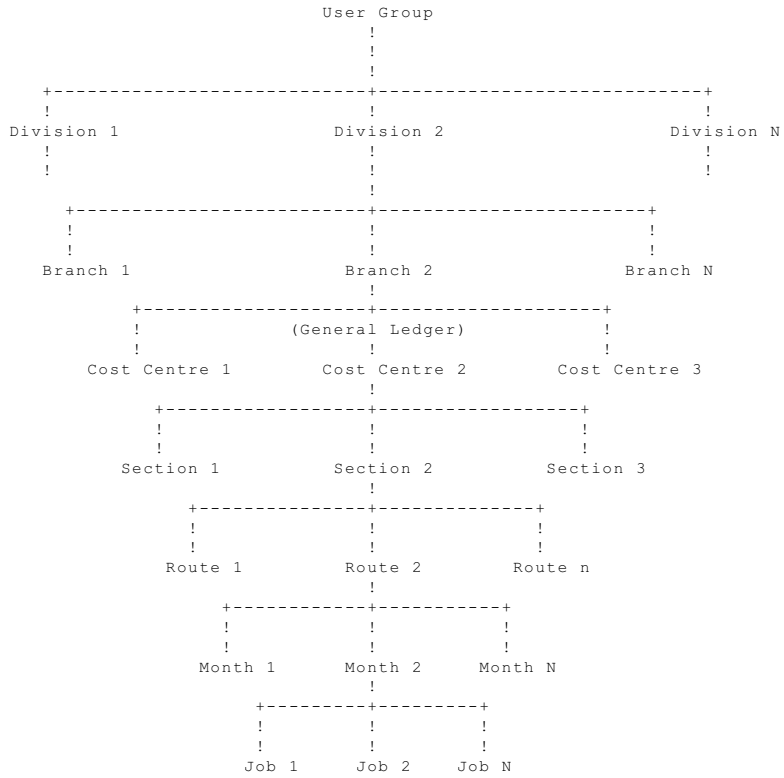
Index by Topic 99.
Introduction 99.
Accruals - trading 99.
Credit control 99.
Sales invoicing 99.
Sales invoicing in bulk-invoice format 99.

System Schematic Groups, Companies, Routes, Months, Groupages, Jobs



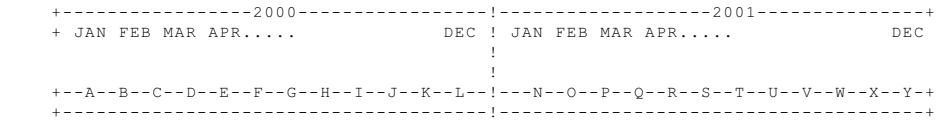
NB - 'Month' here is Operational Month
   - 'Route' is synonymous with 'Service'

System Schematic Groups, Divisions, Branches, Sections, Routes, Months, Jobs



NB - 'Month' here is Operational Month
- 'Route' is synonymous with 'Service'

System schematic - Concept of Operational and Accounting months



Introduction

Boffin is a family of computer systems designed to provide Freight Forwarding companies with integrated systems to cover the operational, accounting, management and marketing aspects of their business.

The system is modular in design, allowing new users to select all or only those aspects for which they have an immediate use, leaving other aspects until there is a requirement. All modules are 100% compatible with one another.

The designers select computer hardware and operating system environments which also fulfil this modular approach to integrated, normalised systems. Supported computer platforms provide a development and growth path from systems supporting just a few terminals to those supporting many hundreds. For very large users, or those who have an extensive branch structure, the various sizes of computer may be networked together, to provide resilient powerful distributed systems. Data stored on one computer in the network may be accessed by any of the terminals in the network. Operational, accounting and marketing data can be sent automatically from system to system, as required.

The freight forwarder's working life is ruled by the four imperatives of speed, service, competition, and control. Industry today needs its goods moved fast. Quick, efficient deliveries produce happy customers and faster cash turn round. Service - the parties involved in the international movement of freight require accurate, timely documentation and knowledgeable help from the freight forwarder; service keeps customers. Competition? The freight forwarding business is one of the most competitive in the world; a penny in the kilo rate can gain or lose a consignment, a mis-routing can lose a customer. A telephone call saved per consignment can really make a difference. Every consignment, whether ten or ten thousand kilograms, creates an inescapable need for large amounts of documentation, communications and control.

The Boffin design encourages the forwarding clerks to book their consignments as early as possible to allow the system to maintain positive control of the cargo. Many common-sense and some more subtle checks and controls have been included in the product to highlight potential problems before they become costly. Credit checks on customers and searches for special rates and special instructions relating to the customer's cargo are effected quickly and automatically. Details of previous cargo for the customer are immediately available to the booking-clerk.

The greatest overhead cost in the industry is the cost of labour, followed closely by communications. To reduce the amount of wasted manual labour, the designers have ensured that the maximum amount of repetitive or standing information has been catalogued inside the system. Access to this repetitive data is either automatic or very easily invoked; it is all at the finger tips of the intelligent, interested operator.

Whilst nominating the cost of labour to be the greatest overhead expense, good staff are difficult to find, expensive to train and should not be employed on menial repetitive tasks. Making all of the company's operational, marketing and accounting data immediately accessible will increase throughput, reduce errors and make the forwarders job more interesting. In turn, fewer mistakes

means fewer corrections; less mistakes means less correspondence and more control.

Efficient, easy to use communications are terribly important in the movement of cargo. The timely provision of operational, credit status and credit control information is of great importance to the user. Access to this information by the various staff members involved in the cargo movement must not be difficult. The various modes of communications should be fully integrated and either completely automatic or very simple in operation.

The cost of inter-office communications between the user branches utilises leased lines or third party commercial networks to reduce the cost of telex and telephone calls. Larger customers should have immediate access to cargo status and to data relating to their shipments. Access should be provided to the other agencies involved in cargo movement, the Ports, Shipping Lines, Airlines, Customs and Excise. In summary, the integrated system should be as open as possible to the community, bearing in mind prudent data and commercial security.

There is a requirement for good Word Processing and Electronic Mail. Quotations, Reports, Mailing Lists, Minutes and Customer Correspondence are all typical applications for this facility. These resources should not be confined to head office operations but also the branches; users should attempt to share-out the resources and the workload; involving all of the staff.

The accumulation of accurate management information relating to the successful running of the company should be an automated and 'bye-product' procedure not involving the staff in special time consuming exercises; such information should accurately and readily reconcile back to the Boffin financial system. It should be easy for the user to pass this management information between the integrated data processing system and the word processing and/or financial modelling systems. This provides for the easy production of accurate and timely management reports.

Boffin is completely integrated; software, computer hardware operating systems and communications equipment - a complete freight system. A system which is designed to allow the user to grow with computer technology and a rapidly changing freight industry. If you do not want to know what makes your company 'tick', you do not need Boffin!

The designers of Boffin specialise in the provision of systems for the freight industry, a skilled team of computer people are working full time on the support and expansion of the total system. The hardware manufacturers are producing increasingly powerful systems, faster and cheaper than ever, Boffin makes it possible for the users to have access to more power at an affordable cost.

Bishopsgate provide a turnkey system, installing, training and maintaining the Boffin software system. The hardware manufacturer provides extensive engineering support which the user should contract into. It is quite common now, that the hardware manufacturers optionally offer 24 hour, seven days a week engineering cover.

Bishopsgate's Boffin system is a single system which freight companies of any size can use and grow with in a clear, proven upgrade path. Modern, exciting computer families provides a clear, proven growth path that does not require one line of software change between computer processor models.

Standard and Enterprise editions

The Boffin/Open designers are expanding the system facilities on an ongoing basis; not all expanded facilities will be of interest to all users. The more complex and/or esoteric additional facilities are 100% compatible with the then-current standard edition and can be ordered for delivery with a new complete release of the product. Very often, expanded facilities will involve operating system and/or application software obtained from third party authors and may involve license fees.

Licenses for Enterprise edition upgrades

All Boffin/Open Enterprise software is licensed to particular Boffin/Open servers for an agreed time-frame, usually annually in advance with the license fee applicable to the number of seats (connected to each Boffin/Open server)that the user wishes to use. Seat bands are used, as follows:-

Less than	1 users to	10 users per Boffin/Open server per year
From	11 users to	50 users per Boffin/Open server per year
From	51 users to	100 users per Boffin/Open server per year
From	101 users to	999 users per Boffin/Open server per year
Price on application for larger systems		

Enterprise edition software, increase in number of licensed seats

Where licensed user wish to increase the number of seats for which they have contracted, this can be effected quite quickly by making contact with Bishopstrade, obtaining a formal quotation for the upgrade and paying the subsequent Bishopstrade invoice. Once Bishopstrade have been paid, they will email a small program to the user, which can be run at any time and irrespective of what the regular system users are doing, to increase the scope of the license; there will no requirement to stop/start either the Boffin/Open application and/or the operating system on either the application server or any client-PCs.

Enterprise edition license fees

Where license fees are payable, these will be subject to simple calculation and will be payable annually in advance.

Enterprise edition software delivery process

Bishopstrade will supply updated, pre-release version of the runtime Forms and/or Reports to suite the agreed upgrade. This pre-release upgrade will run for 120 days allowing the user the usual 90 days for acceptance testing, plus a free allowance of 30 days. Once the user formally accepts that the upgrade is correct, the Bishopstrade invoice will be paid in full and Bishopstrade will supply a production version of the upgrade which will run for the whole of the agreed license period (starting at the end of the initial 90 day period) plus one month; after which the upgrade will not run but will not damage the user's data in any way. Once Bishopstrade have been paid in full for the next license period, running a simple program on the target installation will expand the valid

license period; this license period update program will only work for one upgrade period; accidental re-running of the program will not cause damage but equally will not increase the license period further.

Enterprise software installation fees

Generally speaking, the installation processes associated with Enterprise edition software will be such that individual users can expect top install the software, without the presence of a Boffin/Open software engineer or an approved agent. Where the user feels that he/she would like the installation to be effected by the designers or their approved agent, then this will be chargeable at the contract rates and direct expenses at cost will be billed.

The remainder of this chapter provides a summary of the individual Enterprise Edition software which is immediately available.

Direct Trader Input (DTI) upgrade for Kenya Customs & Excise

The Kenya Revenue Authority - Customs & Excise department (Customs) have been computerised for some years and the application software is now in a stable state. Recently, the system has been upgraded to provide for the automatic processing of incoming shipping company EDIFACT manifests; which will continue to be developed to allow all such manifests to be processed.

Customs wish to further expand these automated processes to the area of accepting Customs Declarations from the trade, automatically and using EDIFACT messaging standards. The purpose of this letter is to inform your company of the broad proposals and to ask whether you will be interested in participating. Customs propose to compile a list of interested parties to whom technical and commercial information regarding the project can be circulated.

The Customs Application server

The existing Customs computer system runs almost on an H24, D365 basis and it is proposed that this can be upgraded to almost continuous running in the near future, by the introduction of new and more modern hardware.

The DTI Scheme will be based on a new server(s) which will be new and powerful and running under **Linux/Unix** and **Oracle 9i** and later. The DTI scheme will run on an **H24, D365** basis and will be permanently connected to the existing Customs Server by at least one dedicated highspeed link. In the event that the existing system is closed down or fails for a period, the DTI scheme will continue to run and will be capable of completing Entries, so that the traffic flow of cargo is not affected. On resumption of the link between the DTI Scheme and existing systems is resumed, the workload backlog will be processed at highspeed and fully to arrive back at 'normal service' levels

All of the existing facilities and data will be retained in this hardware and operating system upgrade and there are no proposed changes in any account numbers, PIN numbers etc that are already in use.

DTI Front-end processors

The existing Customs system will be front-ended with brand new machines equipped with Linux/Unix and Oracle 9i, which will run on an H24, D365 basis the object of which is to provide a fast a reliable front-end communications facility for DTI.

Invitation to participate

In principal, all companies that wish to access the new Kenya DTI Scheme, will be welcome, provided that they are able to demonstrate their technical capabilities and their willingness to enter into an Agreement with Customs as to the legal responsibility for the Customs Entries submitted through the DTI Scheme. Without any formal commitment, those companies who feel that they would like to participate are requested to complete the questionnaire attached to this new-letter and forward the completed for by facsimile or post to...

Technological target(s)

Although Customs have no legal obligation to make access to the proposed system easy of simple enough for all interested parties to participate, the feeling is that the system should be made available to all parties wishing to make use of it; whether they be large and technologically advanced companies or small sole traders. It is envisaged that any company having a minimum of a modern Laptop computer and an Internet link and a Web browser will be able to access and use the system. Where the participating company is more technically capable, facilities will be provided for completely automated means of submitting and processing Entries using EDIFACT conventions. There will be no restriction on any participant using both proposed methods of access.

Participating parties - Badge Families

All participants in the scheme will be provided with an agreed, unique Badge Family Name, by which they will be known within the DTI scheme; this will usually be the main component of the company name; for example, Transami (Pvt) Limited would probably have the Badge Family of "Transami"; which would normally be fixed but would be capable of amendment to any other name that was still available. This amendment facility would provide for participant companies being purchased, thus probably involving a name change. As a *technical note*, the Short Name of the Badge Family would change, but the internal unique, non-transferrable, non-reusable Badge Family Number would not change.

Multiple DTI Access points

The system is to be capable of supporting any pre-agreed number of simultaneous logons from participating parties. Each participating party communicating with the DTI system will be required to submit a Logon, Password and (probably) Longroom location, after which they would be able to use the agreed facilities of the system. Each separate authorised logon would be considered as a Logon Badge and all logon badges would, by definition relate to a Badge Family. There would be no practical limit to the number of Badges that can be issued to any/all Badge Families. There will be a nominal monthly charge per Badge. All Badges would be valid for use with all Kenya Customs Longrooms. It is anticipated tht large users who maintain a branch structure might wish to use separate DTI Badges in each branch office, so as to be invoiced by the DTI Scheme separately for the entries processed for each branch office.

Accessing the DTI Scheme from operational offices located abroad

All participating companies will be required to be Kenya based and each will be required to sign a legally binding agreement covering the responsibility for Customs Entries submitted via the DTI Scheme. Once this responsibility has been accepted by the participants, there is no technical impediment to DTI processing from any suitably qualified operator located anywhere.

Effectively a Pre-entry system

The introduction of the DTI Scheme, in effect, institutes a Pre-Entry system, by which appropriate

Customs Entries will be fully processed before the goods cross the national borders.

Customs Declaration status codes

The DTI Scheme will involve all types of Customs Declarations, with one logical record describing in the database describing one Declaration. Each database record will include a Status Flag, which may have anyone of five values; as follows:-

00	Declaration Registered
10	Declaration Assessed
20	Declaration paid
30	Declaration reconciled
40	Declaration involves refund
50	Refund paid
60	Declaration closed

Unique Entry References

Participating companies will be required to submit each new Entry with a unique brokers reference comprising of up to 12 alpha-numeric ASCII characters, left justified with no embedded blanks or nulls. The 'uniqueness' of this reference is within Badge Family. Where a new Entry is received for any processing and the Unique Brokers Reference is not unique, the entry will immediately be rejected with a self-explanatory error code and description.

Archive period for all Customs Entries

It is envisaged that all entries will be maintained online in the DTI Scheme computer system, in full detail, for a period of five years from the date of acceptance of the Entry. It is further envisaged that participating members of the scheme will be able to retrieve individual and *blocks* of their own Entries from the system archives, on demand without the involvement of the DTI staff. For the purpose of this document the term 'blocks' of Entries will mean the result of a compound search of the DTI archive records for a combination of parameters submitted at runtime; where all of the important parameters associated with Customs Entries may be part of the search criteria.

Training System

The Kenya DTI Scheme will include a Training System from the outset and for the full life of the system. The object of the Training System is that users will be able to effect the full facilities of the DTI Scheme using the Training System, where everything will run as it would in the live system, but the data will be considered as 'Training Only' and will not be cause for any financial implications of charges to the user. The Training System should be considered as being a replica of the live system, but the data will cause any financial implications and the Declarations will be physically dropped after being held online for 30 days from the date of receipt. Users will not be charged for Declarations submitted to the Training System. The Training SYstem will continue indefinitely, so as to provide a testing mechanism for users who change their own computer system or wish to try a different method of working.

Rejected Declarations

Where an authorised user submits a Customs Declaration for Registration or Assessment to the live DTI scheme and the Declaration does not pass all of the validation checks, the details of the declaration will not be stored in the DTI online database, but will be absolutely discarded. The current policy is that Declarations submitted to the live system, which fail any validation checks will be charged for in the same way and at the same rate as Declarations that pass all of the validation tests. The Unique Broker Reference of Declarations with errors will not be deemed to have been used.

Assessed Declarations passing validation

All Declarations submitted to the live system, that pass all validation checks on Registration, will be stored in complete detail in the DTI online database; the Unique Broker Reference will be deemed to have been used, the Declaration will be charged for at the normal rate.

Enterprise I00001 - ASYCUDA++ Interface, South African exports to Botswana

There is an application software product designed for Customs & Excise, known as ASYCUDA++ which is the latest release of the software and is in use in about 80 countries in the world. Bishopstrade in South Africa have developed a realtime freight-broker interface to the ASYCUDA++ system, running in the Botswana Customs & Excise.

Botswana Customs & Excise 'Pre-Entry'

Effectively, the July 2002 introduction of ASYCUDA++ into Botswana introduces the concept of **Customs Pre-Entry**'. It is anticipated that Boffin/Open Release 09.2002.08 will contain the initial release of the ASYCUDA++ interface, which will be available in both the Surface Import and Surface Export traffic types of the Boffin/Open application.

Position existing pre-Boffin/Open interface

Botswana Customs & Excise introduced ASYCUDA++, running live from the 1st July 2002, and Direct Trader Input (DTI) facilities were made available soon afterwards. The ASYCUDA++ server application is supported on a Unix/Oracle8 server located in the Botswana Customs & Excise Headquarters building in Gabarone.

The remote freight-broker Client-PCs that are involved in Botswana DTI scheme are equipped with free ASYCUDA DOS/PARADOX application software which allows for the build-up and submission of Customs Entries. The Botswana Customs & Excise provide free copies of ASYCUDA++ software to 'the trade' (Freight Forwarders etc) and do not charge for the submission of customs entries to the ASYCUDA system. The system runs in realtime on an H24, D365 basis.

Bishopstrade have a Boffin/Open user located in Gabarone, Botswana (The Receiving Agent) who moves both Surface import and export traffic between Johannesburg and Gabarone on an overnight basis with a partner company located in Johannesburg, South Africa (The Sending Agent). The (practical) necessity of pre-clearing cargo through the Botswana Customs & Excise and processing each consignment through the Boffin/Open system, causes the temporary double keying of the cargo details and causes unnecessary delay and workload.

Bye way of background information, the Boffin/Open user located in Johannesburg loads cargo each afternoon which has been collected in the greater Johannesburg area. The Johannesburg company book the individual cargo details into the Boffin/Open system - Surface Exports, from which manifests, sales invoices and South African Export Customs Entries (CCA1) are produced (as well as other functions not directly applicable here).

For each cargo booking, the sending agent sends the commercial invoice(s), his sales invoice and the South African Export CCA1 Entry with the truck. The trunking trucks and cargo leave Johannesburg usually by about 22:00 in the evening and drive through the night to be at the South African/Botswana border by 06:00 next morning. The trucks clear through the South African border post without assistance from the Receiving Agent and arrive at the adjacent Botswana

Border crossing by 08:00 in the morning.

Someone from the Botswana receiving agent meets the truck at the Botswana border post and takes the 'paperwork' back to the Gabarone office, where the cargo bookings are made into the ASYCUDA++ system and fully processed (assessed under DTI), which produces an A4 blank paper Botswana Import Entry from the ASYCUDA++ system located in the Botswana HQ building.

This paper Entry is added to the paperwork that was sent from the sending agent in Johannesburg and submitted to the Botswana Customs at the Border post. The truck is cleared through Botswana Customs and proceeds to the Receiving Agent premises, where it is unloaded and the individual bookings delivered as soon as possible.

Due to the practicalities of the need to meet the truck at the border, retrieve the paperwork and then go back to the receiving depot to make the Import DTI Entries, it is usually the case that the cargo shipments cannot be delivered by 10:00 as would be the ideal. If deliveries to the consignees could be regularly made by 10:00 in the greater Gabarone area, then it is anticipated that the volume of cargo shipped could be radically increased from the initial 30 JNB/GAB exports per day and the 15 GAB/JNB return shipments.

Proposed upgrade of the Boffin/Open Release 09.2002.07 system

Application has been made to the Botswana Customs & Excise department for a free copy of the ASYCUDA++ Remote Client application software, which was obtained, together with a copy of the installation instructions, from Magnum Freight (Pty) Limited, who were already a licensed user of the application. The whole of the ASYCUDA++ computer directory (C:\ASY) from Magnum Freight, including some old processed DTI Import Entries (*.SAD) was copied to Bishopstrade Limited directory:-

Laptop3\D:\Awpdocs\Asycuda++\20021008**ASY**

as an aid to development. The installation guide (Brokers.doc) was printed and stored in the Bishopstrade ASYCUDA++ project file. The Brokers User guide (MODBRK_BW.doc) was printed and the print stored in the Bishopstrade project file. Notice that the ASYCUDA++ application when installed on a Broker's computer is entirely contained with in a single computer directory (ASY) which MUST be located in the C:\root directory.

Computer redundancy in the Sending Agent's offices

Once this Boffin/Open upgrade is in place, it will become vital that it is available at all times, as the way in which the traffic is being handled depends upon it. A single PC computer failure must not cause the unavailability of the overall working system. Based on this and even though the traffic volumes can easily be handled using one Client-PC, Bishopstrade strongly recommend that two ASYCUDA++ equipped Boffin/Open Client-PCs be installed and then in a manner that each provides practical backup for the other.

It is a fact that all of the Boffin/Open data is stored on the Sending Agent's computer server, so cargo bookings made by any Client-PC are accessible from any participating Boffin/Open Client-PC, irrespective of who booked the shipment.

In the case of the ASYCUDA++ project, the Boffin/Open system will be 'building up' ASYCUDA++ compatible files (records), each containing a single cargo booking in the ASYCUDA++ format. These records will be deposited in a new Boffin/Open Oracle table - **DTIBOT** -, located with the other Boffin/Open data tables, located on the Boffin/Open server. The point about this is that should the Sending Agent use only one of his ASYCUDA++ equipped Boffin/Open Client-PCs to book the JNB/GAB Export traffic, either the same or the so-called standby ASYCUDA++ equipped Boffin/Open client-PC can be used to build and send the *.SAD data to the Botswana DTI scheme.

Sending Agent ASYCUDA++ installation

The agent in Johannesburg is already equipped with Boffin/Open Release 09.2002.06 and this will be upgraded when the Botswana ASYCUDA++ interface is ready, with the next release 09.2002.07. The installation operates a Boffin/Open Client/Server system with about 10 named users. It is a fact that the Boffin/Open server and all Fat Client-PCs will be upgraded to Boffin/Open Release 09.2002.07; which is the normal situation.

It is proposed that two (perhaps more later) existing Boffin/Open Fat-Client-PC be upgraded with the full Botswana ASYCUDA++ application and will be known as the Botswana Master PCs.

Sending Agent Single part CCA1 South African Export Entries printer

The Sending Agent Boffin/Open installation will be upgraded, so as to support a new matrix printer (SOS-OPS_CCA1) on which will be permanently mounted, single part CCA1 stationery, to be used to produce South African Export Entries for Botswana destination. This printer and it's pre-printed stationery will be accessible from all of the sending Agent's FAT client-PCs.

Sending Agent Plain A4 Portrait stationery - Botswana Import Entries

All Boffin/Open LAN installations support at least one logical printer that is pre-loaded with A4 Portrait stationery; this logical printer is accessible from all Boffin/Open participating Client-PCs; including the Botswana Master PCs.

Botswana Import Entries can be submitted for approval using the Botswana Customs Direct Trader Input system (DTI) using regular telephone auto-dial modems. Originally the Botswana Customs & Excise objected strongly to the idea that their DTI scheme might be accessed from telephones located in foreign countries; this has now changed and there is no real objections as the Receiving Agent is held responsible for the connection. Paper Entries are still required for cargo importation and these Entries (BW500/BW501) are printed by recalling an Assessed DTI entry back from the Botswana Customs & Excise computer system, on which can be seen all of the data originally submitted plus some new data added by the DTI Scheme. These paper Entries are to be printed in simplex mode on A4 Portrait stationery in ? parts and in ? font. It is necessary to use a reasonably

powerful printer, such as but not limited to an HP1200 PCL5e compliant printer when printing the Paper Entries extracted from the DTI scheme. There seems to be no limit as to the number of times that any given DTI Entry can be recalled and printed or to the location of the physical printing; provided the correct Botswana DTI Logon and Password are used.

Sending Agent DTI Logon and Password

The sending agent will probably not be able to obtain a Botswana Customs & Excise DTI logon and password as he is located outside Botswana and therefore the Botswana Government would have trouble prosecuting, should the need arise. It is therefore anticipated that the Botswana Receiving Agent will have the DTI contract and will be in possession of a DTI Logon and Password; which he will agree to share with the Sending Agent.

There is no technical reason why the Sending Agent should not use his regular telephone line system to dial into the Botswana DTI Scheme. It is anticipated that all of the DTI facilities that the Receiving Agent enjoys, will similarly be available to the Sending Agent.

Cost of Sending Agent DTI telephone calls

The cost of the long distance telephone calls to the Botswana DTI scheme should be on a separate telephone line, so that the cost of the calls can be correctly and accurately included in any AMETA profit share that the Sending and Receiving agent use.

Documentation charges for DTI formalities

In the past, the Botswana Import Customs Entry was probably completed by the Receiving Agent, who no doubt and very reasonably made a charge for the service. In this new method of working the Botswana Import ENtry will be processed completely before the groupage unit departs from the Sending Agent and under these conditions, the Sending Agent would seem to have some claim on the sales charge for the Botswana Import Entry production.

Botswana DTI auto-update facility of Remote Client(s)

The ASYCUDA++ application has a mandatory facility built into it's design, under which all participating, authorised remote client-PCs are updated automatically, when they logon to the service, if their ASYCUDA++ static data files are not current. Bishopstrade anticipate that this data will be allowed to come into the participating client-PC, updating the Client-PC copies of the static datasets. It is also thought that this 'static' data will be imported into the local Boffin/Open server installation to Boffin/Open equivalent tables; on a one-for-one basis. The reloading of the Boffin/Open equivalent tables with the client-PC ASYCUDA++ static data will be automatic and will not require any participation from the human operators.

The Botswana Customs & Excise training department showed the Boffin/Open designers the way in which this static data on the ASYCUDA++ Client-PC can be seen and exported.

Availability of the United Kingdom Harmonised Customs Tariff

The Boffin/Open designers have a license with the United Kingdom 'Her Majesty's Stationery Office' to have and to use a copy of the Harmonised Customs Tariff. Boffin/Open software has been developed (ISADxxxx suite) and used for some years to allow contracting Boffin/Open users to maintain their own copy of this data, including an Alphabetic Index to the Customs Tariff.

Availability of the South African Harmonised Customs Tariff

When the Boffin/Open designers started trading in South Africa, they copied the then-current United Kingdom Customs Tariff to become the initial version of the Boffin/Open South African Customs Tariff. Edited copies of the Boffin/Open Customs Tariff file maintenance programs were made (IRADxxxx suite) to allow contracting parties to maintain their own copy of this Tariff and the associated Tariff Index.

Availability of the Botswana Harmonised Customs Tariff

Bishopstrade intend to make a copy of their South African Customs Tariff and Tariff Index Boffin/Open tables and make the copies become the system's Botswana Tariff and Tariff Index. Bishopstrade will then provide Boffin/Open maintenance software with which the users will be able to maintain the Botswana Customs Tariff and Tariff Index. Bishopstrade will investigate the possibility of using the ASYCUDA++ downloaded Customs Tariff information to automatically update the Boffin/Open Botswana Customs Tariff

Boffin/Open Surface Export United Kingdom SAD application software

The Boffin/Open application was first developed for use in the United Kingdom, which has it's own DTI system, to which Boffin was connected and used commercially. Paper Entries are still required in the United Kingdom DTI system and these take the form of the Single Administrative Document (SAD) document set, which utilises A4 Portrait printing. Boffin/Open has all of the application software (ISADxxxx and ESADxxxx suites) which is required to allow a suitably qualified terminal operator to book a cargo shipment and then to build up the Customs Export Entry information, before printing the appropriate SAD sheets in the applicable numbers of copies. Subsequent printing of copy Entries is supported.

Boffin/Open Surface Export South African CCA1 application software

When the Boffin/Open designers arrived in South Africa, the (ISADxxxx and ESADxxxx) suite of United Kingdom software was used as the basis of software designed to support the preparation of South African Export and Import Entries (IRADxxxx and ERADxxxx suites), of which the CCA1 set has been used live for several years. The South African CCA1 Entry multi-part sets are printed on multi-part, continuous stationery loaded on to a matrix printer attached to the Sending Agent Local Area Network (LAN) and accessible by all authorised operators.

Boffin/Open Surface Export support for RSA/Botswana Customs Entries and DTI

Since the introduction of the Boffin/Open (South African) IRADxxxx and ERADxxxx suites, some development has been effected to make the software more friendly, accurate and practical. It is proposed that the ERADxxxx and IRADxxxx suites be copied and the copies renamed (IBADxxxx and EBADxxxx) to form the basis for use with Botswana.

It is appreciated that the Boffin/Open ERADxxxx (Surface Exports from South Africa) will be updated to make it possible for it to produce not only the South African Export CCA1 single part export entry but also (optionally) the Botswana (*.SAD) ASYCUDA++ Direct Trader Input (DTI) File, which can be sent and processed by Botswana DTI from a Johannesburg located telephone/modem. The preparation of the Boffin/Open (*.SAD) ASYCUDA DTI file from the Boffin/Open DTIBOT records from within the Oracle database will require that this optional 'extra' uses the Botswana DTI static data.

Technical Note

Notice how, under Boffin/Open, the Botswana DTI *.SAD record data is not initially placed into a *.SAD file on the ASYCUDA++ equipped Boffin/Open Client-PC, but is written as a single logical record to a new Boffin/Open Oracle database table DTIBOT. By placing the *.SAD data within the Boffin/Open database, the data will be backed up as part of the regular and automatic Boffin/Open backup regime, without further action and the C: drive of the ASYCUDA++ equipped Client-PCs will not become full of old Botswana DTI Entries which would then require managing. Furthermore, the ENTRIES can be recalled by the same or other Client-PCs for submission to Botswana DTI.

Botswana DTI requirement for a Unique Broker's Reference

The Botswana DTI Scheme will retain DTI Entries online for a period of five years. Participating Brokers are required to annotate each Entry with a Unique Reference (maximum of 10 bytes alpha-numeric) which will remain unique for at least the five years of online storage.

The Receiving Agent has already indicated that he would vote for some how using the Boffin/Open Detail Job number for import traffic, as this number is already printed as part of the details on the groupage manifest. The short list of Boffin/Open numbering systems that could be used for this Unique Reference usage are the Sending Agent Job Number or the Sending Agent Sales invoice number.

Suggested method of 'Entry Unique Referencing'

The Receiving Agent has indicated that his organisation would like to see the Boffin/Open Detail Job Number used, but all parties accept that there is the potential for duplication that has to be considered and covered.

Boffin/Open Job Numbers take the form 'JEB12345D6'; which is ten bytes in its maximum extent. In the example detail job number shown above, the Traffic is described by the JE (Johannesburg

Exports by Road). The maximum length of the DTI Broker's Unique Reference is eight characters and so Bishopstrade propose that the Boffin/Open detail job number (e.g. JEB12345D6) be the target with the highest order and lowest order characters dropped, so that 'JEB12345D6' would be used as 'EB12345D'; which can be readily restructured by the operational staff as 'JEB12345D?'; which is usable in the Boffin/Open system to access the detail cargo booking. There IS still the possibility of duplication over the years, so the following could be implemented.

The Boffin/Open system will include a new index (or this could be an extension of the existing JOBINDEX table); where the Unique References used with (Botswana) DTI would be indexed. Where the altered Boffin/Open detail Job Number (e.g. EB12345D is about to be used, it will be used to access the new index to see if it has already been used. If it has not then the index will be updated and the number used. If the number has previously been used, then the Boffin/Open detail booking pool number will be used with a Prefix to indicate Boffin/Open suite; where there is absolutely no chance of duplication in our lifetime(s); Pool Numbers are purely numeric and can be nine digits in length. On the basis that we expect it to be VERY Rare that a detail job number would be involved in a duplicate, then this Pool Number back up gives us security in that it totally avoids duplications and will rarely be used.

On the basis that any shipment booking would only ever be offered to one DTI scheme, there is great scope for expanding the existing JOBINDEX table by one field (DTI Unique Reference) to guarantee 'uniqueness'. The DTI Unique Reference will also be written to a new shipment booking field, so that if the Boffin/Open JOBINDEX has to be rebuilt, the new field can be correctly and automatically populated.

Technical Note On all Boffin/Open Surface export route control records, there is a single byte parameter field, which controls the timing of the issuance of detail cargo booking job numbers. The choice is either to have the detail job numbers issued when the cargo is originally booked or to have the job numbers issued as part of the Link/Run operation which is part of the 'truck closure' event. To support the use of the Boffin/Open detail job number as the Botswana DTI Unique Reference, it is imperative that Boffin/Open detail job numbers are issued as cargo is initially booked.

Preparation and submission of the Botswana DTI *.SAD file per booking

Notice that initially, the Botswana *.SAD data is built-up in a Boffin/Open Oracle database table and that when the Sending Agent is ready to submit the Botswana DTI Entries for Assessment, he may use any ASYCUDA++ and Boffin/Open equipped Client-PC to recall the database data and submit it to the DTI Scheme.

The way in which the Botswana DTI Scheme works is that typically, the free ASYCUDA++ PC-based software that was given to the Freight Forwarder by Botswana Customs & Excise is used to build up an Entry using the static data that the Botswana Customs & Excise ASYCUDA++ server had downloaded to the participating PC.

The data that makes up a single Botswana Import Entry is written in an agreed EDIFACT (CUSDEC) format to a PC file which is stored under a unique reference on the participating client-

PC in a subdirectory of the ASY directory. At some convenient time, the ASYCUDA equipped remote PC is used to submit this data from the *.SAD file of the Client-PC to the ASYCUDA++ Server with a request to **Register** it (so that the exchange rates for the day are fixed) and validate it and/or validate and **Assess** it.

After the Entry has been Assessed, some Customs Receipt details are added to the data accepted from the broker and the broker (or anyone else with access to the brokers logon and password) can request that the completed entry data be returned to the broker and printed.

In the new Boffin/Open ASYCUDA++ interface, it is anticipated that the Sending Agent will build the *.SAD file for each shipment and will send these to Botswana Customs and will recall the completed printed Import Entries. These entries will be combined with the Commercial Invoices, the Sending Agent sales invoice, the South African Export Entry (CCA1) before all of this is sent with the Trunking vehicle to arrive at the Botswana border before 06:00 next morning.

Availability of a DTI 'Batch Print' facility

In the Brokers ASYCUDA++ Application software, there is a facility that provides for a Batch Print facility, where the participating Agent is able to make a single request to the DTI Scheme for a print of all Assessed Entries that have a common criteria. This seems not to work at this stage, but would be very useful, if all of the Assessed Entries relating to a single Groupage Unit could be re-called in a single request. The availability of this function should be chased with the ASYCUDA++ programming team.

Receiving agent actions on truck arrival at Border

The Receiving agent will go to the Botswana Border post early in the morning to meet the truck that has travelled overnight from Johannesburg. All of the paperwork required to clear the commercial groupage load through Botswana Customs, WITHOUT the need for the Receiving Agent to return to his office to effect any preparation work. This, in turn, will allow for the shipments to be delivered earlier than would otherwise have been the case, thus improving the overall service and hopefully allowing an increased volume of cargo to be moved.

Duration of Botswana DTI online records

The ASYCUDA team indicated that DTI Entries will be retained online and available to suitably qualified people for a period of five years from the date of the Entry. Brokers will be able to obtain printed copies of Entries previously submitted by their DTI logon.

Botswana DTI static tables - Consignees

The Botswana DTI system includes a list of Consignees living in Botswana, each of which has been allocated a unique Consignee Number. This list is maintained by the DTI staff and downloaded automatically to each authorised Client-PC, as necessary. Bishopstrade envisage allowing this download to happen and then importing the entire list into a Boffin/Open database table included specifically for the task. This table would be accessed by the Boffin/Open system

when processing consignees in Botswana, but due to SuperRates considerations, cannot take the place of the existing Boffin/Open (ENAMES) table.

Botswana DTI static tables - Exchange rates

The Botswana DTI system includes a list of authorised currencies and exchange rates, which are potentially changed on a daily basis. This list is maintained by the DTI staff and downloaded automatically to each authorised Client-PC, as necessary. Bishopstrade envisage allowing this download to happen and then importing the data into a Boffin/Open database table to use when constructing Botswana *.SAD files for transmission to the Botswana DTI Scheme.

Botswana DTI static tables - Two letter country codes

The existing Boffin/Open EXCHANGE table includes a field within which the user is able to maintain the two letter Customs Code for each country in the world; this table is delivered fully coded to each new boffin/Open installation.

A check will need to be made that each of the records in this Boffin/Open table contains the correct two uppercase letter Customs country code.

Processing Warehouse/Warehouse Entries

Details will need to be obtained from the Botswana Customs DTI Training department on how exceptional import shipments are to be processed within the DTI scheme, such as but not limited to warehouse/warehouse entries.

Enterprise P0001 - Traditional bar-code printing on any documents

The Boffin/Open Standard Edition Release 09.2002.07 and earlier contains no bar code printing facilities. Bar code printing is available in two versions, traditional and advanced; Boffin/Open can support writing and reading of both types of bar-code, provided that the installation includes the appropriate software.

The traditional bar code printing is the type seen on the side of groceries purchased in a supermarket. Where the user is printing some/all of his Boffin/Open A4 documents on PCL5e (or better) compliant printers (e.g. HP1100, HP4000 etc), then bar code printing can be added to any supported A4 document, where there is space to print the bar. Bar-codes of this type include an internationally accepted check-digit calculation; used in checking any subsequent reading of the bar-code print. Printing bar-codes does not slow down the printing process. Bar-codes of this type will usually be limited to about 10 alpha-numeric characters in length. There is no limit to the number of user laser printers that can be upgraded for bar-code printing in any given server installation. Bar-coded documents printed under this section can be expected to be machine-readable around the world by third-party machines/scanners equipped for bar-code reading work.

The supply of this upgrade to an existing Boffin/Open installation involves no hardware changes, assuming that HP PCL5e (or later) compliant printers are already envisaged or in use. The user will nominate the A4 Boffin/Open produced documents on which bar-codes are to be included and will agree the position and content of the bar-code. The user will send a copy of the installation PCL5e macro file to Bishopstrade, who will update the macro file to suite the upgrade and then will return this to the user. The user will install the updated PCL5e macro file on all applicable server(s) and Client-PCs completely replacing the previous version.

Enterprise P0002 - Advanced expanded bar-code printing on any documents

The Boffin/Open Standard Edition Release 09.2002.07 and earlier contains no bar code printing facilities. Bar code printing is available in two versions, traditional and advanced; Boffin/Open can support writing and reading of both types of bar-code, provided that the installation includes the appropriate software. There is no restriction to any given Boffin/Open installation supporting BOTH traditional and advanced bar-code printing.

The advanced bar code printing is the type seen on the more advanced applications and can be identified by the fact that the bar-code is larger and tends to be printed as a square image full of seemingly random squiggles. Where the user is printing some/all of his Boffin/Open A4 documents on PCL5e (or better) compliant printers (e.g. HP1100, HP4000 etc), then advanced bar-code printing can be added to any supported A4 document, where there is space to print the bar-image. Bar-codes of this type include an internationally accepted check-digit calculation; used in checking any subsequent reading of the bar-code print. Printing bar-codes does not slow down the printing process. Bar-codes of this type will usually be limited to about 2000 alpha-numeric characters in length. There is no limit to the number of user laser printers that can be upgraded for bar-code printing in any given server installation. Bar-coded documents printed under this section can be expected to be machine-readable around the world by third-party machines/scanners equipped for advanced bar-code reading work. There is no restriction to any given Boffin/Open installation supporting BOTH traditional and advanced bar-code printing.

The supply of this upgrade to an existing Boffin/Open installation involves no hardware changes, assuming that HP PCL5e (or later) compliant printers are already envisaged or in use. The user will nominate the A4 Boffin/Open produced documents on which bar-codes are to be included and will agree the position and content of the bar-code. The user will send a copy of the installation PCL5e macro file to Bishopstrade, who will update the macro file to suite the upgrade and then will return this to the user. The user will install the updated PCL5e macro file on all applicable server(s) and Client-PCs completely replacing the previous version.

Bishopstrade will supply updated, *pre-release version* of the runtime Forms and/or Reports to suite the agreed upgrade. This pre-release upgrade will run for 120 days allowing the user the usual 90 days for acceptance testing, plus an allowance of 30 days. Once the user formally accepts that the upgrade is correct, the Bishopstrade invoice will be paid in full and Bishopstrade will supply a *production version* of the upgrade which will run for the whole of the agreed license period plus one month; after which it will not run but will not damage the user's data in any way. Once Bishopstrade have been paid in full for the next license period, running a simple program on the target installation will expand the valid license period.

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