



open eir¹ CSV File Format for Single Billing through Wholesale Line Rental

¹ open eir is a trading name of eircom limited, Registered as a Branch in Ireland Number 907674, Incorporated in Jersey Number 116389, Branch Address : 2022 Bianconi Avenue | City West Business Campus | Dublin 24 | D24 HX03



Version Control

Version	Status	Update	Effective Date
5.4		Rebranded	21st October 2015
V6.0	Final	This document is based on V5.4 Implementation of Standardised Change Control.	12/06/2017

This document follows change control procedure:

Proposed is defined as a document status when the approved document is uploaded to Proposals Section of open eir Website.

Final is defined as a document status when the approved document is uploaded to the relevant section of the open eir Website following the publication period.

For information:

- Historical Document History Table located at end of Document.
- Publish means the action of uploading a document to the website regardless of status or location.
- **If there are changes to the document between ‘Proposed’ and ‘Final’, change control operates.**



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1 File transfer process

1.1 email notification sent to the OLO

As part of the FTP process the OLO Customer is notified by email whenever one of his Major Accounts has caused the generation of a data file for collection. The OLO Single Billing Data Extraction process runs cyclically, triggered by the open eir Major Accounts suite. An OLO Customer who has more than one Master Account will receive more one data file for each Major Account, and one email notification message for each data file.

The Email subject line will contain '*** OLO DATA AVAILABLE ***' The Email message box will contain the following message

* Notification of OLO Data Availability! *

* From: OPEN EIR OLO ADMINISTRATOR *

* To : OLO LTD *

* Date: 21.MAR.03 *

* *

* File OLOLTD.50508043.G0001.DATA *

* is now available for collection. *

* *

1.2 File naming conventions

File name : OLOLTD.50508043.G0001.DATA

3/4 OLOLTD is the OLO name.

3/4 50508043 is the unique open eir Master Account number

3/4 G0001 is the file generation number, prefixed by the letter G. 3/4 DATA this denotes that it 's a data file.

1.3 Data files

The OLO Single Billing Data Extraction process selects data for a particular Master Account from 14 source files. The extracted data is concatenated, in the order listed in the Source Data Files section, into a single output file. The content of each component file is bracketed within delimiter records that indicate the start of the component file, and the end of that file. The 'start' delimiter names the file type i.e. BLOPABP, BLOPCALL etc. Following the 'start' delimiter record is a 'header' record that names the fields within the component comma-separated file. Note that, even if a component file is empty, the delimiter and 'header' records will still appear.

Two sets of sample files are set out below.



OLOLTD.50508020.G0002.DATA.TXT



OLOLTD.50508043.G0002.DATA .txt

The file is completely text-based, in EBCDIC format on the mainframe, ASCII format on the OLO NT server.

The actual collection of the data file by the OLO Customer is controlled by the open eir Data Communications team. This team will set up directories for specified OLO Customers. They will control access and permissions on these directories for both the customer and the FTP account. Specifically those used for transmitting files from the mainframe to the OLO server. The OLO Data Extraction and Distribution application, will deposit correctly named and formatted files into the appropriate directories.

1.4 open eir source data files

The sequence of the concatenated file is

TIS.BLOPABP.DAT.&CYC	TIS.BLOPCALL.DAT.&CYC	TIS.BLOPEXP.DAT.&CYC
TIS.BLOPHEAD.DAT.&CYC	TIS.BLOPMAJ.DAT.&CYC	TIS.BLOPOCD.DAT.&CYC
TIS.BLOPOCH.DAT.&CYC	TIS.BLOPORD.DAT.&CYC	TIS.BLOPORI.DAT.&CYC
TIS.BLOPPTD.DAT.&CYC	TIS.BLOPRENT.DAT.&CYC	TIS.BLOPSAV.DAT.&CYC
TIS.BLOPSUMA.DAT.&CYC	TIS.BLOPVAT.DAT.&CYC	

2 CSV Files

The following sections provide details of the file, their contents, and the key fields. This can be used to construct a data model and act as a specification for a data load. All of the fields described below are included / represented in the files that will be exchanged and are in the sample files that have been provided. In this way, all fields may be considered mandatory. However, depending on the type of services to which a specific record refers, the appropriate mandatory value for that field may be blank. The character set used for each of the files is the standard single byte ASCII character set.

It is also worth mentioning that all of the individual charge items, and the summary and total values contained within these files are VAT exempt. However, there are two exception to this for the VAT files (where the values show the VAT calculated) and the BLOPHEAD file (where the values in TOTAL DUE and TOT PAID show the VAT inclusive amounts).

2.1 TIS.BLOPORD.DAT.CYC (Orders)

This file gives the detail of the Order for the Minor ^{.....}Account within the Major Account. The 4 key fields are:

- Master Account number, (FMACNO)
- Account number, (FACCNO)
- Bill sequence (FBILSEQ)



- Order number (FORDNO)

Field Name	Field Attributes	Description of Field
FRUNDTE	Char (6)	Billing Cycle Number
FMACNO	Char (8)	8 digit code to identify a Master Account Number
FACCNO	Char (8)	8 digit code to identify a Single Account Number
FDISTCOD	Char (3)	District Identifier
FBILSEQ	Char (3)	The Sequence Number of a Customers Bill at Account or Group Level.
FORDNO	Char (9)	Order Number is the number used to Identify an Order
FCMPLDTE	Char (8) Format is: YYYYMMDD	Completion Date is the date of completion of a Service Order



FRECPTNO	Char (11)	Receipt Number is the Identifier of a Receipt.
FTOTORD	Fixed Dec (9,2) Max Value: 9999999.99	Total of the Order
FRNTDES	Char(21)	Rental Credit Allowed
FRNTAMT	Fixed Dec (7,2) Max Value: 99999.99	Total Broken Period Rental Credit due on an Order
FORDDES	Char (50)	Description of an Order
FORDAMT	Fixed Dec (7,2) Max Value: 99999.99	Total Charge for Cost of Work
FTRNDES	Char (12)	Description of a Transfer
FTRNAMT	Fixed Dec (7,2) Max Value: 99999.99	Amount Owed by a Customer for Connection related to one Order



FDEPDES	Char (07)	Description of a Deposit
FDEPAMT	Fixed Dec (7,2) Max Value:	Deposit Amount asked of a Customer for an Order

	999999.99	
FRRCDES	Char (09)	Description of a Rental Charge
FRRCAMT	Fixed Dec (7,2) Max Value: 999999.99	Total Rental Charge as a result of an Order
FFRRCDES	Char(25)	Bill Printing Description Literal.
FFRRCCHG	Fixed Dec (9,2) Max Value: 99999999.99	Total Charge for Changes to "Friends and Family" or "Route Code" Plans.



FBPSDES	Char (22)	Bill Printing Description Literal.
FBPSTOT	Fixed Dec (11,2) Max Value: 999999999.99	Total Broken Period Subscription
CUR	Char (3)	Indicator

2.2 TIS.BLOPORI.DAT.CYC (Order Items)

This file contains the Detail of the Order items for an order for a minor account number within a Master Account number. The 4 key fields are:

- Master Account number, (FMACNO)
- Account number, (FACCNO)
- Bill sequence (FBILSEQ)
- Order number (FORDNO)

Field Name	Field	Description of Field
(Header)		
FRUNDTE	Char (06)	Billing Cycle Number
FMACNO	Char (08)	8 digit code to identify a Master Account Number
FACCNO	Char (08)	8 digit code to identify a Single Account Number
FDISTCOD	Char (03)	District Identifier



FBISEQ	Char (03)	The Sequence Number of a Customers Bill at Account or Group Level.
FORDNO	Char (09)	Order Number is the number used to Identify an Order
FSTD	Char (04)	Std Code
FTELNO	Char (07)	Telephone Number is the Identifier of the Customers Telephone Line.
FBLITDES	Char (50)	Billing Description of a Service Order Code (SOC) Item
FOSOCQTY	Fixed Dec (3) Max Value: 999	The Quantity Ordered of each Service Order Code (SOC) on an Order.
FREF	Char(03)	Reference variable (or action sequence number) that identifies the charges within BLOPOCH that



FACTDES	Char (15)	<p>This text describes the 'action' that has resulted in charges being raised against an account. The action will be one of the following:</p> <p>Provide (Displayed Pro):</p> <p>Restore(Res):</p> <p>Change(Cha):</p> <p>Remove(Rem):</p> <p>Move(Mov):</p> <p>Suspend(Sus):</p> <p>Cease & Reprov Same Ord:</p> <p>Recover Safe Custody(Rsc):</p> <p>Transfer:</p> <p>Change Rent Credit:</p> <p>Cease(Cea):</p> <p>To.</p>
CUR	Char (3)	Currency Indicator.



2.3 TIS.BLOPOCD.DAT.CYC (Miscellaneous Charges and Credits)

This file contains the Detail of the Miscellaneous charges¹ & Credits for a minor account number within a Master Account number. This file is not linked / associated with BLOPORD, BLOPORI, or BLOPOCH. Instead, this file should be considered as associated with BLOPSUM (i.e at the same level as BLOPORD). The 3 key fields are:

- Master Account number, (FMACNO)
- Account number, (FACCNO)
- Bill sequence (FBILSEQ)

Field Name (Header)	Field Attributes	Description of Field
FRUNDTE	Char (06)	Billing Cycle Number
FMACNO	Char (08)	8 digit code to identify a Master Account Number
FACCNO	Char (08)	8 digit code to identify a Single Account Number
FDISTCOD	Char (03)	District Identifier



FBILSEQ	Char (03)	The Sequence Number of a Customers Bill at Account or Group Level.
FOOCTYP	Char (02)	Type of Other Charges & Credits (OCC) on Account e.g. Reconnection, Deposit, Rent Rebate, Dr Xfer, Query
FOOCDES	Char (50)	The Description in English of the OOC Type as printed on the Bill
FOOCAMT	Fixed Dec (9,2) Max Value: 9999999.99	Other Charges & Credits Amount is the Individual Charge of another OCC on an Account
FSTD	Char (04)	Std Code
FTELNO	Char (07)	Telephone Number is the Identifier of the Customers Telephone Line.
FNORECON	Fixed Dec (3) Max Value: 999	No Line Reconnection is the number of lines to be charged for Reconnection
FXFRACCN	Char (08)	Account Number from which this Debit Transfer came



FLANGIND	Char (01)	Language to be used on Bills Issued. E English.
CUR	Char (3)	Currency Indicator.

1 Please note that the internet package is applied at account level and not CLI level.

2.4 TIS.BLOPOCH.DAT.CYC (Changed Rental and Connection Charges)

This file contains the Detail of the changed rental & connection charges for an order for a minor account number within a Master Account number. Connection charges are associated with the cost of setting up a service. The rental charges are associated with the broken period² charge until the next bill. For example, a person on a monthly billing cycle that receives a new residential PSTN line, in the middle of a month, will be billed for the connection and also for the number of days until his next bill (from when it will appear in the recurring rental charges section - BLOPRENT). The 4 key fields are:

- Master Account number, (FMACNO)
- Account number, (FACCNO)
- Bill sequence (FBILSEQ)
- Order number (FORDNO)

Field Name	Field Attributes	Description of Field
(Header)		



FRUNDTE	Char (06)	Billing Cycle Number
FMACNO	Char (08)	8 digit code to identify a Master Account Number
FACCNO	Char (08)	8 digit code to identify a Single Account Number
FDISTCOD	Char (03)	District Identifier
FBILSEQ	Char (03)	The Sequence Number of a Customers Bill at Account or Group Level.
FORDNO	Char (09)	Order Number is the number used to identify an Order
FREF	Char(03)	Reference variable (or action sequence number) that identifies the action within BLOPORI to which the charge in the following fields relate.
FCHGDES	Char (50)	Description of a Charge to a Bill



FCHGAMT	Fixed Dec (7,2) Max Value: 99999.99	Total Value of a Charge to a Bill
CUR	Char (3)	Currency Indicator.
FORENFRM	Char (08) Format: YYYYMMDD	The Rental from Date
FORENTO	Char (08) Format: YYYYMMDD	The Rental To date

2 Broken Period Rental formula

The daily rental amount is the monthly rental amount divided by 30 days rounded down to 2 digits after the decimal place and multiplied by the number of broken period days.

2.5 1.5 TIS.BLOPVAT.DAT.CYC (Vat)

This file contains the Details of the VAT for a minor account number within a Master Account number. This file contains a record for each VAT rate that is applicable to the minor account (therefore a minor account may have more than one record within the file).

Where a charge is exempt from VAT, the rate that is shown in VAT CHARGE is '-999.99'. This value was used to differentiate from instances where the VAT rate that had to be applied is 0% as there is / was a legal requirement to report these separately. The value of -999.99 was



selected as one 'well outside' any logical rate that the government could introduce, thereby making reporting easier.

The 3 key fields are:

- Master Account number, (FMACNO)
- Account number, (FACCNO)
- Bill sequence (FBILSEQ)

Field Name	Field Attributes	Description of Field
CYCLE NO	Char(100) Var	Billing Cycle Number
MAJOR ACCNT NO	Char (08)	8 digit code to identify a Master Account Number
ACCOUNT NO	Char (08)	8 digit code to identify a Single Account Number
FDISTCOD	Char (03)	District Identifier
FBILSEQ	Char (03)	The Sequence Number of a Customers Bill at Account or Group Level



TOTAL	Fixed Dec(9,2) Max Value: 9999999.99	Total Amount due excluding VAT
VAT CHARGE	Fixed Dec (5,2) Max Value: 999.99	Percentage Rate at which Vat is charged
TOTAL VAT	Fixed Dec (9,2) Max Value: 9999999.99	Total VAT charged ³
CUR	Char (3)	Currency Indicator.

3 The "Total VAT" value is the total amount of VAT applicable to the invoice with one minor exception. This exception is where an arrears amount is generated due to a delay in linking the end-user minor account with the service provider major account. The value due to this delay is inclusive of VAT.

2.6 TIS.BLOPEXP.DAT.CYC (Vat Exempt Accounts)

This file contains the Details of the VAT Exempt for a minor account number within a Master Account number. The 3 key fields are:

- Master Account number, (FMACNO)
- Account number, (FACCNO)
- Bill sequence (FBILSEQ)



Field (Header)	Name	Field Attributes	Description of Field
CYCLE NO		Char(100) Var	Billing Cycle Number
MASTER ACCOUNT NO		Char (08)	8 digit code to identify a Master Account Number
ACCOUNT NO		Char (08)	8 digit code to identify a Single Account Number
DISTRICT CODE		Char (03)	District Identifier
BILL SEQUENCE		Char (03)	The Sequence Number of a Customers Bill at Account or Group Level
AMOUNT EXEMPT		Fixed Dec (9,2) Max Value: 9999999.99	Amount Exempt from Vat
VAT RATE		Fixed Dec (5,2) Max Value: 999.99	Percentage Rate at which Vat is charged



VAT EXEMPT REF NO.	Char (13)	Reference Number for Vat Exempt Accounts
CUR	Char (3)	Currency Indicator.

2.7 TIS.BLOPABP.DAT.CYC (Plans)

This file gives the Details of the PLANS for a minor account number within a Master Account number. As there are no plans associated with WLR products / accounts, there will not be any data in this file associated with WLR accounts. The 4 key fields are:

- Master Account number, (FMACNO)
- Account number, (FACCNO)
- Bill sequence (FBILSEQ)
- Plan ID

Field (Header)	Name	Field	Description of Field
		Attributes	
CYCLE		Char(100) Var	Billing Cycle Number



DISTRICT	Char (03)	District Identifier
MAJOR ACC NO	Char (08)	8 digit code to identify a Master Account Number
ACC NO	Char (08)	8 digit code to identify a Single Account Number
BILL SEQ	Char (03)	The Sequence Number of a Customers Bill at Account or Group Level
BILL ISSUE DATE	Char(08) Format: YYYYMMDD	The Date a Bill is issued
LANG IND	Char (01)	Lang-Ind indicates the Language to be used on Bills issued. E English.
PLAN ID	Char (08)	Plan Id - Code to identify a Flexible Tariff Plan.



PLAN DESC	Char (30)	Flexible Tariffing Plan Long Description
SUBSCRIPTION	Fixed Dec (15,4) Max Value: 99999999999.999 9	The Total Subscription Charges, for the Plan, for either the Group, Account or Line for this Bill.
SUB LEVEL	Char (01)	Subscription Level for a Flexible Tariffing Plan: "A" = Group, "B" = Account, "L" = Line
DISCOUNT	Fixed Dec (15,4) Max Value: 99999999999.999 9	Total Discount, Allowance & Discount Value on Account Bill Plan
ACCUM LEVEL	Char (01)	Accumulation Level for a Flexible Tariffing Plan: "A" = Group, "B" = Account, "L" = Line
PENALTY	Fixed Dec (15,4) Max Value: 99999999999.999 9	The Total Penalty Charges for the Plan, at either Group, Account or Line Level, for this Bill.
TOTAL	Fixed Dec (15,4) Max Value: 99999999999.999 9	Total A/C Bill Plan includes Subscription, Allowance & Discount Value and Penalties



CUR	Char (3)	Currency Indicator.
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2.8 TIS.BLOPPTD.DAT.CYC (Plans to Date)

This file contains the Details of the PLANS To Date for a minor account number within a Master Account number. As there are no plans associated with WLR products / accounts, there will not be any data in this file associated with WLR accounts. The 4 key fields are:

- Master Account number, (FMACNO)
- Account number, (FACCNO)
- Bill sequence (FBILSEQ)
- Plan ID

Field Name	Field Attributes	Description of Field
CYCLE	Char(100) Var	Billing Cycle Number
DIST	Char (03)	District Identifier
MAJOR ACC NO	Char (08)	8 digit code to identify a Master Account Number
ACC NO	Char (08)	8 digit code to identify a Single Account Number



BILL SEQ	Char (03)	The Sequence Number of a Customers Bill at Account or Group Level
BILL ISSUE DATE	Char(08) 8 Digit Format: YYYYMMDD	The Date A Bill Is Issued
GROUP ACC NO	Char (08)	Unique Identifier for an Account Group for Flexible Tarriffing.
GROUP BILL SEQ	Char (03)	This is the Sequence Number for the Group and increments each time Billing is run for the Accounts in the Group.
STD	Char (04)	Std Code
TELNO	Char (07)	Telephone Number is the identifier of the Customers Telephone Line.
ACCUM LEVEL	Char (01)	Accumulation Level for a Flexible Tariffing Plan: "A" = Group, "B" = Account, "L" = Line
LANG IND	Char (01)	Lang-Ind indicates the Language to be used on Bills issued. E English.



PLAN ID	Char (08)	Plan Id - Code to identify a Flexible Tariff Plan.
PLAN DESC	Char (30)	Flexible Tariffing Plan Long Description
PTD DISCNT	Fixed Dec (15,4) Max Value: 99999999999.999 9	Discnt-Val is the value of a Discount allowed.
PTD USAGE	Fixed Dec (15,4) Max Value: 99999999999.999 9	The accumulated call value from the start of a particular Plan
CONTR USAGE	Fixed Dec (15,4) Max Value: 99999999999.999 9	The Contract Usage agreed with a Customer for a Contract-Type Plan.
START DATE	Char (08) Var Format : YYYYMMDD	This is the date that the Line got the Plan



SCH END DATE	Char (08) Var Format YYYYMMDD	This is the date that a Tariff Plan is Scheduled to Cease.
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CUR	Char (3)	Currency Indicator.
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2.9 TIS.BLOPSAV.DAT.CYC (Tariff Saving)

This file contains the Details of the Savings (Gross and Nett) To Date for a minor account number within a Master Account number. As there are no plans associated with WLR products / accounts, there will not be any data in this file associated with WLR accounts. The 3 key fields are:

- Master Account number, (FMACNO)
- Account number, (FACCNO)
- Bill sequence (FBILSEQ)

Field (Header)	Name	Field	Description of Field
		Attributes	
CYCLE NO		Char(100) Var	Billing Cycle Number



MASTER ACCOUNT NO	Char (08)	Master Account Number. It is a 8 digit code to identify a Major Account.
ACCOUNT NO	Char (08)	Minor Account Number. It is a 8 digit code to identify a Single Account
DISTRICT CODE	Char (03)	District Code
BILL SEQUENCE	Char (03)	Bill Sequence
STD TELNO	Char (04) + Char (07)	Std Code and Telephone Number. It is the identifier of the Customers Telephone Line.
BILLING LITERAL1	Char (50)	Billing Literal. First Line Key for the Translation File.
BILLING LITERAL2	Char (50)	Billing Literal. Second Line Key for the Translation File.
GROSS SAVINGS	Fixed Dec (13,4) Max Value: 999999999.999 9	The Gross Amount saved on a Re-Rate of a Call on a Tariff Plan



NETT SAVINGS	Fixed Dec (13,4) Max Value: 999999999.999 9	The Net Amount saved on a Re-Rate of a Call on a Tariff Plan
GROSS USAGE	Fixed Dec (11,4) Max Value: 9999999.9999	The Gross Cost of Call Usage before Re-Rate of Calls through Tariff Plan
NETT USAGE	Fixed Dec (11,4) Max Value: 9999999.9999	The Net Cost of Call Usage after Re-Rate of Calls through Tariff Plan
PERCENTAGE SAVING	Fixed Dec (5,2) Max Value: 999.99	The Percentage Amount saved by Re-Rating Calls through a Tariff Plan
CUR	Char (3)	Currency Indicator.

2.10 TIS.BLOPSUMA.DAT.CYC (Minor Account Summary Values)

This file contains the Details of the Summary Values for a minor account number within a Master Account number. The 3 key fields are:

- Master Account number, (FMACNO)
- Account number, (FACCNO)
- Bill sequence (FBILSEQ)



Field (Header)	Name	Field Attributes	Description of Field
CYCLE NO		Char(100) Var	Billing Cycle Number
MAJOR A/C		Char (08)	8 digit code to identify a Master Account Number
ACCOUNT NO		Char (08)	8 digit code to identify a Single Account Number
FDISTCOD		Char (03)	District Identifier
FBILSEQ		Char (03)	The Sequence Number of a Customers Bill at Account or Group Level
NO OF LINES		Fixed Dec (5) Max Value: 99999	A Count of Active Lines at an Installation



ISSUE DATE	Char(08) Format: YYYYMMDD	The date that the (minor) bill was issued (except in the case of the Master Account where this will be over written with the date on which the Master Account cycle was run).
RENTAL FROM	Char (08) Format: YYYYMMDD	Date from which the Customer was (or will be) Charged Rental
RENTAL TO	Char(08) Format: YYYYMMDD	The Date To which Rental is charged on a Bill
CALLS FROM	Char(08) Format: YYYYMMDD	The Date From which Calls are charged on a Bill
CALLS TO	Char(08) Format: YYYYMMDD	Last Date of Calls Period
RECURR RENT	Fixed Dec (9,2) Max Value: 9999999.99	The monetary amount of Rental to be charged for Lines
RECURR EQUIP	Fixed Dec (9,2) Max Value: 9999999.99	The monetary amount of Rental to be charged for Equipment



FDIRRENT	Fixed Dec (9,2) Max Value: 99999999.99	The monetary amount of Rental to be charged for Directory Entries
PLAN CR/DR	Fixed Dec (13,2) Max Value: 999999999999.99	Account Bill total Charges & Credits for Plans Subscription, Discount, Allowance & Penalties
TOTAL CALLS	Fixed Dec (9,2) Max Value: 99999999.99	Total Call Value for an Account which is part of Major Billing
OTHER CR/DR	Fixed Dec (9,2) Max Value: 99999999.99	Total Value of all other OCC Details
ARREARS	Fixed Dec (9,2)	Bill Arrears is the balance carried forward for



	Max Value: 99999999.99	Accounts belonging to Major Accounts.
TOTAL	Fixed Dec (9,2) Max Value: 99999999.99	Account Bill charges excluding Vat charges
CUR	Char (3)	Currency Indicator.
FTRENTCR	Fixed Dec (7,2) Max Value : 99999.99	The amount of Rental Allowed to an OAP, or other Special Customer
FFUNTVL	Fixed Dec (5,2) Max Value : 999.99	The value of free units allowed
ALLOW	1 CHARACTER	will contain A, T or will be empty. A= AWARD, T=TERMINATION
TYPE	1 CHARACTER	will contain O, G, V or will be empty. O=OAP, G=GARDA, V=VETERAN. Oap and Garda are from DSFA and Veteran is from the Dept of Defence



DATE	Char(08) Format YYYYMMDD	Var will contain date in YYMMDD format or will be empty. Contains the effective date of the Award or Termination.
REF	9 CHARACTERS	will contain the DSFA customer reference number or will be empty.

2.11 TIS.BLOPHEAD.DAT.CYC (Master Account Bill Header File)

This file contains the Details of the Bill Totals for that Master Account number. Given that this information does not relate to minor accounts, the information from this file does not need to be printed on minor account bills (unless it is contained within a minor account file).

The 2 key fields are:

- Master Account number, (FMACNO)
- Summary Sequence Number,(FMSUMSEQ)

Field Name	Field Attributes	Description of Field
CYCLE NO	Char (100) Var	Billing Cycle Number and run date



MAJOR ACCNT NO	Character 8	8 digit code to identify a Master Account Number
SUM SEQ NO	Character 3	SUMMARY SEQUENCE NUMBER USED BY MAJOR ACCOUNTS.
FLANGIND	Character 1	LANG IND INDICATES THE LANGUAGE TO BE USED ON BILLS ISSUED.
CUST NAME	Character 35	Customer Name
LAST BIL AMT	Fixed Dec (9,2) Max Value: 99999999.99	LAST BILL AMOUNT IS THE AMOUNT OF THE LAST BILL INCLUDING ARREARS. IT SHOULD EQUAL FBALOS AT BILLING
BAL OS	Fixed Dec (9,2) Max Value: 99999999.99	BAL OS IS THE VALUE OF THE AMOUNT OUTSTANDING ON AN ACCOUNT
QAMT TOT	Fixed Dec (7,2) Max Value: 999999.99	THE TOTAL AMOUNT UNDER QUERY ON AN ACCOUNT



ISSUE DATE	Character 8 Digit Format: YYYYMMDD	THE DATE A BILL IS ISSUED
DUE DATE	Character 8 Digit Format: YYYYMMDD	THE DATE A BILL IS DUE FOR PAYMENT
FDISTCOD	Character 3	DISTRICT IDENTIFIER
TOTAL DUE	Fixed Dec (9,2) Max Value: 9999999.99	THE TOTAL AMOUNT DUE FOR PAYMENT ON A BILL
TOT PAID	Fixed Dec (9,2) Max Value: 9999999.99	THE TOTAL PAYMENT VALUE RECEIVED SINCE LAST BILL
MESSAGE1	Character 60	THE FIRST MESSAGE PRINTED ON A BILL
MESSAGE2	Character 60	THE SECOND MESSAGE PRINTED ON A BILL



PRINT ADDR1-5	Character 26	THE BILL PRINTING ADDRESS (5 lines)
FSETCNT	Fixed Dec (7) Max Value: 99999999	THE SET NUMBER OF A COLLECTION OF DETAILED STATEMENTS FOR PRINTING AND DESPATCH PURPOSES

FPGCNTTS	Fixed Dec (7) Max Value: 99999999	NUMBER OF TELEPHONE SUMMARY PAGES PRINTED FOR A MAJOR ACCOUNT.
FPGCNTPS	Fixed Dec (7) Max Value: 99999999	NO. OF TARIFF PLAN SUMMARY PAGES MAJOR ACCOUNT BILLING
FPGCNTCL	Fixed Dec (7) Max Value: 99999999	NO. OF LINE NON-FREEFONE CALL USAGE SUMMARY PAGES MASTER ACCOUNT BILLING
FPGCNTFL	Fixed Dec (7) Max Value: 99999999	NO. OF LINE FREEFONE CALL USAGE SUMMARY PAGES MASTER ACCOUNT BILLING



FPGCNTCA	Fixed Dec (7) Max Value: 99999999	NO. OF A/C NON-FREEFONE CALL USAGE SUMMARY PAGES MASTER ACCOUNT BILLING
FPGCNTFA	Fixed Dec (7) Max Value: 99999999	NO. OF A/C FREEFONE CALL USAGE SUMMARY PAGES MASTER ACCOUNT BILLING
FPGCNTOS	Fixed Dec (7) Max Value: 99999999	NUMBER OF OTHER CHARGES AND CREDIT PAGES PRINTED FOR A MAJOR ACCOUNT.
FPGCNTVS	Fixed Dec (7) Max Value: 99999999	NUMBER OF VAT PAGES PRINTED FOR A MAJOR ACCOUNT.
FPGCNTVE	Fixed Dec (7) Max Value: 99999999	NO. OF VAT EXEMPTION SUMMARY PAGES MASTER ACCOUNT BILLNG.
FPGCNTCC	Fixed Dec (7) Max Value: 99999999	NO. OF LINE CALL USAGE BY COST CENTRE SUMMARY PAGES MASTER ACCOUNT BILLING
AVAT AMT	Fixed Dec (9,2) Max Value: 99999999.99	TOTAL AMOUNT OF VAT CHARGED AT CATEGORY A RATE (currently zero rated) ON A BILL.



BVAT AMT	Fixed (9,2) Value: 99999999.99	Dec Max	TOTAL AMOUNT OF VAT CHARGED AT CATEGORY B RATE (currently 13.5%) ON A BILL.
CVAT AMT	Fixed (9,2) Value: 99999999.99	Dec Max	TOTAL AMOUNT OF VAT CHARGED AT CATEGORY C RATE (currently 21%) ON A BILL.
DVAT AMT	Fixed (9,2) Value: 99999999.99	Dec Max	TOTAL AMOUNT OF VAT CHARGED AT CATEGORY D RATE (currently 21%) ON A BILL.
CUR	Character (3)		Currency Indicator.

2.12 TIS.BLOPCALL.DAT.CYC (CPS Call Usage Details)

This file contains the Details of all calls for a minor account number within a Master Account number.

The source of data for Operator Assisted Calls (OAC) is different to that of the other call types. As a result, there are some differences between the information contained in this file for OAC and other call types. In relation to the durations shown for OAC calls, it should be noted that the duration of individual calls is shown as zero, although the charges are shown correctly. Also, the total duration shown for OAC calls is the sum of the individual call durations, rounded up to the nearest minute (i.e. 12min's and 50sec's is rounded to 13min's, but shown as 00:13:00).

The 3 key fields are:



- Master Account number, (FMACNO)
- Account number, (FACCNO)
- Bill sequence (FBILSEQ)

Field (Header)	Name	Field Attributes	Description of Field
SORT-NO		Char 6	6 Digit Sort Order Number to facilitate correct sorting of records.
MASTER ACCOUNT NUMBER		Char 8	8 Digit Code to identify a Master Account number.
ACCOUNT NUMBER		Char 8	8 Digit Code to identify an individual Account number.
BILL SEQ		Char 3	The Sequence Number of a Customers Bill at Account or Group
STD		Char 4	4 Digit code for Std
TELEPHONE		Char 7 Variable	7 Digit Code for Telephone number.
CALL TYPE		Char 3	3 Digit code to identify a particular type of Call.
CALL DESCRIPTION	TYPE	Char 60	Description of Call Type.
RATE		Char 30	Period of time a Call was made at - Daytime, Evening or Weekend.
DATE		Char 8	Date the call was made - Format : YYYYMMDD
TIME		Char 6	Time the Call was made - Format : HHMMSS
TERMINATING NUMBER OF CALLS		Char 25	Terminating Number - Telephone number that was called by
		Char 06	Number of Calls for a particular Call Type.
DESTINATION		Char 15	International Country called by customer.
BAND		Char 60	Geographical location of International Country Called - (Mid



DURATION- Seconds	Char 05	Duration of Call/s – Held in Seconds
CLASS OF SERVICE	Char 2	2 digit code to Identify Service Class of Call made. The class of service identifies call origination services applied, and the most common (non-standard) classes relate to payphone, ISDN, and calling number presentation.
C-O-S DESCRIPTION	Char 30	<p>Description of Service Class. The following service classes (codes and descriptions) exist:</p> <ul style="list-style-type: none"> 0 Ordinary call 2 Payphone(Public) 3 Payphone (Public) E10 Exchange

		<ul style="list-style-type: none"> 4 A/B Coinbox 5 Calls maximum 7 seconds on Freefone (Service Providers) 6 Second leg of a forwarded call 8 ISDN 9 ISDN 64k A Caller Return B Open eir Carrier Preselect
CALL TRACKING	Char 03	3 Digit reference number of indicate Call Tracking has been



CALL-TRACK DESCRIPTION	Char 60	Description of Subscriber for whom Call Tracking has been initiated.
TOTALS DESCRIPTION	Char 30	Call Total/Line Total/Account Total Descriptions
TOTAL	Char 15 Max values 9999999999. 9999 or 9999999999 99.99	Holds relevant description of records being processed . Individual Call Type Price - 4 Decimal Precision Total of Call Type Prices - 4 Decimal Precision Total Call Prices per Telephone number - 4 Decimal Precision Overall Total Charges per Account - 2 Decimal Precision

2.13 TIS.BLOPRENT.DAT.CYC (CPS Recurring Rental)

This file contains the Details of the Recurring Rental for a minor account number within a Master Account number. As described in a later section, only full period rental charges are contained in this section. The 3 key fields are:

- Master Account number, (FMACNO)
- Account number, (FACCNO)
- Bill sequence (FBILSEQ)

Field Name (Header)	Field Attributes	Description of Field
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SORT-NO	Char 4	4 Digit Sort Order Number to facilitate correct sorting of records.
MASTER ACCOUNT NUMBER	Char 8	8 Digit Code to identify a Master Account number.
ACCOUNT NUMBER	Char 8	8 Digit Code to identify an individual Account number.
BILL SEQ	Char 3	The Sequence Number of a Customers Bill at Account or Group Level.
STD	Char 4	4 Digit code for Std
TELEPHONE	Char 7	7 Digit Code for Telephone number.
TYPE	Char 7	Recurring Rental descriptive heading – “Rentals”
SOC CODE	Char 8	8 Digit Service Order Code to identify a Recurring Rental product.
SOC CODE DESCRIPTION	Char 50	Description of Recurring Rental Product.
FORENFRM	Char (08) Format: YYYYMMDD	The Rental from Date
FORENTO	Char (08) Format: YYYYMMDD	The Rental To date



QUANTITY	Char 04	Quantity of the rental product
PRICE	Char 08 - Variable	Price charged for Rental Product - held in 2 Decimal Precision.
TOTAL	Char 15 Max value 99999999999 99.99	Total Price charged for Rental Product - held in 2 Decimal Precision.

2.14 TIS.BLOPMAJ.DAT.CYC (Telephone Number List)

This file contains the Details of the STD and Telephone Numbers for a minor account number within a Master Account number. Given that this information does not relate to minor accounts, the information from this file does not need to be printed on minor account bills (unless it is contained within a minor account file). The 2 key fields are:

- Master Account number, (FMACNO)
- Account number, (FACCNO)

Field (Header)	Name	Field Attributes	Description of Field
MAJOR ACC NO		Char 8	8 Digit Code to identify a Master Account Number.
MINOR ACC NO		Char 8	8 Digit Code to identify an individual Account Number.
STD CODE		Char 4	4 Digit Code to identify a Standard Telephone Dialling Code

TEL NO	Char 7	7 Digit Code to identify a Telephone Number
DIST CODE	Char 3	3 Digit Code to identify District Identifier

3 Call and Rental Totals

The call (BLOPCALL) and rental (BLOPRENT) detail files are structured as the information is presented on the open eir bill. Therefore the sequence / sorting for the information contained within the files are listed in the following sections.

3.1 Totals Within BLOPCALL

The calls file contains a summary for the minor account, a summary for each line associated with the minor account, and the individual call details for these calls. To reflect this, a sequence number (SORT NUMBER) has been added (as the first field) to the row. In order to sequence the file so that it can be easily understood, an index based on the (minor) ACCOUNT NUMBER, the STD TELEPHONE, and the SORT-NO (in that order) can be created. Considering BLOPCALL in 50499304.G0111, this will give a sequence that shows:

- For minor account 50387497

- Totals for each call type for TOTAL(ALL LINES), with Day / Evening / Weekend analysis



- Totals for each call type for each phone number (074 6790578), with Day / Evening / Weekend analysis
- Details for each individual call
 - For minor account 50499304 (which happens to be the major account, but this is not important to the understanding of the totaling)
- Totals for each call type for TOTAL(ALL LINES), with Day / Evening / Weekend analysis
- Totals for each call type for each phone number (074 9720327), with Day / Evening / Weekend analysis
- Details for each individual call

If there were other minor accounts for this major account, then this sequence would be repeated for each minor. The SORT-NO's associated with the total for each call type for TOTAL(ALL LINES) are all in the one thousand range. The SORT-NO's associated with the total for each call type for each telephone number are all in the two thousand range. The SORT-NO's associated with the details for each call are all in the three thousand range. If a minor account has more than one phone number, then the SORT-NO sequence for each phone number will restart at 2001 and run for the two thousand sequence again.

Within each range, a summary for each call type is also provided. These summary rows can be identified by the fact that the TOTALS DESCRIPTION field is populated.

By way of example, if a CPSO wanted to get a list of all of the call detail records and exclude all summary and total values, this file should be filtered for values greater than (or equal to) 300000, with a null value in the TOTALS DESCRIPTION field.

3.2 Totals Within BLOPRENT

A similar break down using the SORT-NO is used for the rental file (BLOPRENT). However, because this file only needs to be totalled by minor account number, only the three thousand range is needed. Hence the index should be based on the (minor) ACCOUNT NUMBER, the STD TELEPHONE (for consistency only), and the SORT-NO. The sequence restarts (at 3001) for each minor account with the final line / row containing the total for that minor account. These summary rows can also be identified by the fact that the SOC CODE field is blank.

4 File Associations

Each of the files in this set should be considered as independent entities. There are some natural associations, given that they are based on information for a single customer's account (a minor account).

The one exception to this is the service order files (BLOPORD, BLOPORI, BLOPOCH). BLOPORD can be considered the service order header or summary file, with the service order number contained in FORDNO. BLOPORI is known within open eir as the order item file, but is more easily understood as a summary action list and contains, not only the FORDNO, but also a reference number (FREF). The individual chargeable items associated with each of these actions are contained in BLOPOCH, which also has the FORDNO and the associated FREF.

However, even if you consider the order files, even these can be considered in isolation. For example, consider BLOPOCH, the list of chargeable items, contains all of the information necessary to apply this charge to a CPSO's billing system. This file contains the minor account number (FACCNO), the bill sequence number (FBILSEQ), the service order number (FORDNO), and the action reference number (FREF). In terms of understanding this list of charges, there is no need to reference other files. The specific relationship between these files is considered in more detail in a subsequent section.

I have tried to reflect these associations in the diagram attached (link below). However, please be aware that this only reflects the primary (direct) relationships as the files were originally created (as part of the original Master Account billing process) to stand independently. Hence the association reflected in the fact that BLOPOCH and BLOPSUM contain the FACCNO (and FACCNO) is not shown – it is not necessary to understand the files.



ERD.mdb



5 The Service Order Files

This section describes in more detail the relationship between the main service order files (BLOPORD, BLOPORI, and BLOPOCH).

BLOPORI contains one line for each action on an order (BLOPORD). An action can have a number of chargeable items associated with it. Each of these chargeable items will be listed in BLOPOCH. For example, if an order is to provide a block of ten DDI numbers on an existing ISDN line;

- there will be ten actions associated with the order (a provide for each line in the block).
- each of these actions may have a number of chargeable items, but in the case of providing a block of numbers on a DDI line, there will only be a connection and broken period rental for the first line (it attracts all of the cost).

Below is a manually created extract from an actual bill. In the order activity section are the chargeable items associated with three orders (327CH, 708CH, and 103CH). For each chargeable item there are two lines (a 'title' line, and a charge line). Considering order 327CH, and looking at the fields listed across each line – and using the first two lines as an example – you have:

- FACTDES – the action description (Provide)
- FBLITDES – the short description / literal associated with the line that the SOC has been applied to (ISDN ddi)
- FSTD and FTELNO - the phone number associated with the line that the SOC has been applied to (2011)
- A printed literal {'Our reference no'}
- FORDNO – the order number (327CH) And on the second line:
- FCHGDES – from BLOPOCH, which is the charge description (Charge)
- FCMLDTE – from BLOPORD



and RENTAL TO – from BLOPSUMA, which is the completion / start (or end) of broken period rental date, which is formatted by the bill formatter to give the literal shown (completed on 6 Mar 03)

- total of FCHGAMT – from BLOPOCH, for that account, order, reference number (25.39) This is then repeated for each chargeable item associated with that order (327CH), and is then repeated for each other order that was completed in the billing period.

Below are representations as to how this information would be presented to a CSR from the IT systems. I have linked the content below with the bill extract shown above for the sake of clarify.

The order detail information is repeated (with the appropriate information) for each order on the account. If these details were represented in the Master Account billing files for CPS Single Billing, each value shown on the detail screen would be represented in BLOPOCH. The 'Connection' and 'B.P. Rent' are values in the FCHGDES field. Although not show on the systems (or represented above), the FREF field in BLOPOCH would link back to the FREF field in BLOPORI, such that the 'Connection' and 'B.P. Rent' values would be linked to the action to provide ISDN DDI 2011.

Likewise, BLOPORI would show four lines for the order 327CH (a provide action for each of the lines 2011, 9940, 9941, and 9942). 'ISDN DDI' and 'BRA DDI' are values in the FBLITDES field, while 'Provide' is a value that would be held in FACTDES.

BLOPORD would have the total information shown on the 'ORDERS' screen (32.14 for order 327CH).

PLEASE NOTE: the negative ('-') sign shown in these screen shots is actually a Euro symbol, that I had problems with, when doing the character mapping.



Recurring & Activity Charges					
Rentals are the regular charges due each billing period. Order activity shows charges or credits from provisioning / cessation date for items provided or ceased.					
Type	Service	Period	quantity @ price		
Rentals	Hi-Speed for 2003	3 Apr 03 to 2 May 03	1@	30.99	30.99
	Hi-Speed for 2840	3 Apr 03 to 2 May 03	1@	30.99	30.99
	Hi-Speed main number for 2011	3 Apr 03 to 2 May 03	1 @		30.99
	Hi-Speed for 2006	3 Apr 03 to 2 May 03	1@	30.99	30.99
	Hi-Speed for 2005	3 Apr 03 to 2 May 03	1@	30.99	30.99
	Telephone lines	3 Apr 03 to 2 May 03	9@	17.48	157.32
	Telephone Isdn lines	3 Apr 03 to 2 May 03	25@	0.00	0.00
	Caller display	3 Apr 03 to 2 May 03	1@	0.00	0.00
	Hunting facility	3 Apr 03 to 2 May 03	1@	0.00	0.00
	Master socket	3 Apr 03 to 2 May 03	1@	0.00	0.00
	Isdn ddi	3 Apr 03 to 2 May 03	3@	7.63	22.86
total of rentals					335.13
Order Activity	Provide Isdn ddi 2011 Our reference no 327CH				
	Charge completed on 6 Mar 03				25.39
	Provide Isdn ddi 2011 Our reference no 327CH				
	Part period rental 6 Mar 03 to 2 Apr 03				6.75
	Cease Isdn ddi 2011 Our reference no 708CH				
	Part period rental 24 Mar 03 to 2 Apr 03				-2.50
	Provide Isdn ddi 2011 Our reference no 708CH				
	Part period rental 24 Mar 03 to 2 Apr 03				4.50
	Provide Isdn ddi 2011 Our reference no 103CH				
	Part period rental 24 Mar 03 to 2 Apr 03				4.50
Cease Isdn ddi 2011 Our reference no 103CH					
Part period rental 24 Mar 03 to 2 Apr 03				-2.50	
total of order activity					36.14
total recurring & activity charges					371.27



List of Orders for Account 6801

ORDERS			
ACCOUNT NUMBER: xxxx6801		BILL ISSUE DATE: 03/04/03	
ORDER NO.	xxxx327CH	xxxx103CH	xxxx708CH
COMP. DATE	06/03/03	24/03/03	24/03/03
CHARGE	-25.39	- .00	- .00
B.P.RENTAL	-6.75	-2.00	-2.00
DEPOSIT	- .00	- .00	- .00
COST WORK	- .00	- .00	- .00
RENTAL	- .00	- .00	- .00
B.P.SUB.	- .00	- .00	- .00
PLAN CHRG	- .00	- .00	- .00
TOTAL:	-32.14	-2.00	-2.00
VAT - A	- .00	- .00	- .00
VAT - B	- .00	- .00	- .00
VAT - C	-32.14	-2.00	-2.00
VAT - D	- .00	- .00	- .00
V.A.T. RATE 'A' EXEMPT , 'B' 13.50 % , 'C' 21.00 % , 'D' 21.00 %			

List of Chargeable Items Related to Order 327CH

ORDER DETAIL				
ACCOUNT NUMBER: xxxx6801		ORDER NUMBER: xxxx327CH		
BILL ISSUE DATE: 03/04/03		COMPLETION DATE: 06/03/03		
STD/TELNO	01 xxx2011	01 xxx9940	01 xxx9941	01 xxx9942
STATUS	PROVIDE	PROVIDE	PROVIDE	PROVIDE
DESC.	ISDN DDI	BRA DDI	BRA DDI	BRA DDI
QUANTITY	1	1	1	1
CONNECTION	-25.39	- .00	- .00	- .00
B.P. RENT	-6.75	- .00	- .00	- .00
RENT	- .00	- .00	- .00	- .00
COST WORK	- .00	- .00	- .00	- .00
VAT RATE	21.00 %	21.00 %	21.00 %	21.00 %

5.1 Recurring Rental Versus Order Activity

Under normal billing circumstances, the rental charges associated with a service will be contained in the 'Recurring Rental' section. However, there are two exceptions to this: where a service is provided or ceased during a billing period.



Where a service is provided during a billing period, naturally there was no rental (in advance) on the last bill. Therefore, the first bill after the service is provisioned must include an adjustment for this. This adjustment will cover the rental charge associated with the period of time, from the completion date, to the day before the start of the next billing period.

Broken period rental charges of this nature are included in the 'Order Activity' section. In this way, for the first bill subsequent to the provision of a service (that has a rental charge) two charges will appear on the bill. The normal 'recurring rental' charge for the period in advance will appear in the 'Recurring Rental' section, and the adjustment charge for the broken period in arrears will appear in the 'Order Activity' section.

The same logic applies where a service is ceased during a billing period and rental in advance has already been billed. The only exception being that the adjustment that appears in the 'Order Activity' section will be a credit for the period between the service being ceased and the day prior to the next bill run.

6 Call & Service Type Codes

The following table lists and describes the call and service type codes.

CALL	SERVICE	DESCRIPTION
4		TRUNK CALL
4	G	ALARM CLOCK
4	H	TRUNK ADVICE DURATION
4	I	TRUNK-IRELAND DIRECT
4	J	TRUNK-REVERSE CHARGE
4	K	TRUNK-CALL CANCELLED
4	Q	TRUNK MINICOM
4	G	ALARM CLOCK
4	H	TRUNK ADVICE DURATION
4	I	TRUNK-IRELAND DIRECT
4	J	TRUNK-REVERSE CHARGE
4	K	TRUNK-CALL CANCELLED
4	Q	TRUNK MINICOM
4	A C	ASSISTED TRUNK
4	A I	TRUNK-IRELAND DIRECT/REDUCED
4	AC	TRUNK-PERSONAL/REDUCED



4	AI	TRUNK-IRELAND DIRECT/REDUCED
4	C	TRUNK-PERSONAL CALL
4	CA	TRUNK-PERSONAL/REDUCED
4	CD	TRUNK-PERSONAL/FEE WAIVED
4	CH	ASSISTED TRUNK
4	CJ	ASSISTED TRUNK
4	D	CALL FEE WAIVED -TRUNK
4	DHE	ASSISTED TRUNK
4	G	ALARM CLOCK
4	H	TRUNK ADVICE DURATION
4	HJ	TRUNK REVERSE ADVICE DURATION
4	I	TRUNK-IRELAND DIRECT
4	I A	TRUNK-IRELAND DIRECT/REDUCED
4	IA	TRUNK-IRELAND DIRECT/REDUCED
4	IJA	ASSISTED TRUNK
4	J	TRUNK-REVERSE CHARGE
4	K	TRUNK-CALL CANCELLED
4	Q	TRUNK MINICOM
4	A	TRUNK REDUCED RATE
4	A C	TRUNK-PERSONAL/REDUCED
4	A D	TRUNK-FEE WAIVED/REDUCED
4	A E	TRUNK-REDUCED/FIXED TIME
4	A H	TRUNK-REDUCED/ADV.DURATION
4	A J	TRUNK-REDUCED/REVERSE

4	A Q	TRUNK-REDUCED/MINICOM
4	AC	TRUNK-PERSONAL/REDUCED
4	ACH	TRUNK-PERSONAL/RED./ADV. DUR.
4	ACI	TRUNK-PERSONAL/IRL.DIR/REDUCED
4	ACJ	TRUNK/PERSONAL/RED/REVERSE
4	ACQ	TRUNK-PERSONAL/RED/MINICOM
4	AD	TRUNK-FEE WAIVED/REDUCED
4	ADH	TRUNK-FEE WAIVED/RED/ADV DUR
4	ADJ	TRUNK-FEE WAIVED/RED/REVERSE
4	AE	TRUNK-REDUCED/FIXED TIME
4	AEJ	TRUNK-REDUCED/FIX.TIME/REVERSE
4	AH	TRUNK-REDUCED/ADV.DURATION
4	AHJ	TRUNK-REDUCED/ADV.DUR/REVERSE
4	AIC	TRUNK-PERSONAL/IRL.DIR/REDUCED

4	AIJ	TRUNK-IRL.DIR/REDUCED/REV
4	AJ	TRUNK-REDUCED/REVERSE
4	AJC	TRUNK/PERSONAL/RED/REVERSE
4	AJD	TRUNK-FEE WAIVED/RED/REVERSE
4	AJE	TRUNK-REDUCED/FIX.TIME/REVERSE
4	AJH	TRUNK-REDUCED/ADV.DUR/REVERSE
4	AJI	TRUNK-IRL.DIR/REDUCED/REV
4	AO	TRUNK-REDUCED/MINICOM
4	AOC	TRUNK-PERSONAL/RED/MINICOM
4	C	PERSON TO PERSON - TRUNK
4	C A	TRUNK-PERSONAL/REDUCED
4	C E	TRUNK-PERSONAL/FIXED TIME
4	C H	TRUNK-PERSONAL/ADV.DURATION
4	C J	TRUNK-PERSONAL/REVERSE
4	CA	TRUNK-PERSONAL/REDUCED
4	CAI	TRUNK-PERSONAL/IRL.DIR/REDUCED
4	CAJ	TRUNK/PERSONAL/RED/REVERSE
4	CAQ	TRUNK-PERSONAL/RED/MINICOM
4	CD	TRUNK-PERSONAL/FEE WAIVED
4	CDE	TRUNK-P TO P/FEE W/FIXED ME
4	CE	TRUNK-PERSONAL/FIXED TIME
4	CH	TRUNK-PERSONAL/ADV.DURATION
4	CHE	ASSISTED TRUNK
4	CHJ	TRUNK-PERSONAL/ADV.DUR/REVERSE
4	CIA	TRUNK-PERSONAL/IRL.DIR/REDUCED
4	CJ	TRUNK-PERSONAL/REVERSE
4	CJA	TRUNK/PERSONAL/RED/REVERSE
4	CQA	TRUNK-PERSONAL/RED/MINICOM
4	D	TRUNK-FEE WAIVED
4	D A	TRUNK=FEE WAIVED/REDUCED
4	D E	TRUNK-FEE WAIVED/FIXED TIME

4	D J	TRUNK-FEE WAIVED/REVERSE
4	DA	TRUNK-FEE WAIVED/REDUCED
4	DAJ	TRUNK-FEE WAIVED/RED/REVERSE
4	DE	TRUNK-FEE WAIVED/FIXED TIME
4	DEH	TRUNK-FEE WAIVED/FXT/ADV.DUR.
4	DH	CALL FEE WAIVED/ADC
4	DHE	TRUNK-FEE WAIVED/FXT/ADV.DUR.

4	DJ	TRUNK-FEE WAIVED/REVERSE
4	DJA	TRUNK-FEE WAIVED/RED/REVERSE
4	E	TRUNK-FIXED TIME
4	E A	TRUNK-REDUCED/FIXED TIME
4	E C	TRUNK-PERSONAL/FIXED TIME
4	E D	TRUNK-FEE WAIVED/FIXED TIME
4	E H	TRUNK-FIXED TIME/ADV.DURATION
4	E Q	TRUNK-FIXED TIME/MINICOM
4	EA	TRUNK-REDUCED/FIXED TIME
4	EAJ	TRUNK-REDUCED/FIX TIME/REVERSE
4	EC	TRUNK-PERSONAL/FIXED TIME
4	ED	TRUNK-FEE WAIVED/FIXED TIME
4	EDH	TRUNK-FEE WAIVED/FXT/ADV.DUR.
4	EH	TRUNK-FIXED TIME/ADV.DURATION
4	EHD	TRUNK-FEE WAIVED/FXT/ADV.DUR.
4	EJA	TRUNK-REDUCED/FIX TIME/REVERSE
4	EQ	TRUNK-FIXED TIME/MINICOM
4	G	ALARM CLOCK
4	H	TRUNK ADVICE DURATION
4	H A	TRUNK-REDUCED/ADV.DURATION
4	H C	TRUNK-PERSONAL/ADV.DURATION
4	H E	TRUNK-FIXED TIME/ADV.DURATION
4	HA	TRUNK-REDUCED/ADV.DURATION
4	HAJ	TRUNK-REDUCED/ADV.DUR/REVERSE
4	HC	TRUNK-PERSONAL/ADV.DURATION
4	HDE	TRUNK-FEE WAIVED/FXT/ADV.DUR.
4	HE	TRUNK-FIXED TIME/ADV.DURATION
4	HED	TRUNK-FEE WAIVED/FXT/ADV.DUR.
4	HJ	TRUNK REVERSE ADVICE DURATION
4	HJA	TRUNK-REDUCED/ADV.DUR/REVERSE
4	I	TRUNK-IRELAND DIRECT
4	I J	TRUNK-IRELAND DIRECT/REVERSE
4	I P	TRUNK IRELAND DIRECT/ECONOMY
4	IA	REDUCED RATE - IRELAND DIRECT
4	IAC	TRUNK-PERSONAL/IRL.DIR/REDUCED
4	IAE	TRUNK-IRL.DIR/REDUCED/FIXED TIME
4	IAJ	TRUNK-IRL.DIR/REDUCED/REV
4	ICA	TRUNK-PERSONAL/IRL.DIR/REDUCED

4	IE	TRUNK-IRL.DIRECT/FIXED TIME
4	IJ	TRUNK-IRELAND DIRECT/REVERSE
4	IJA	TRUNK-IRL.DIR/REDUCED/REV
4	IP	TRUNK IRELAND DIRECT/ECONOMY
4	J	TRUNK-REVERSE CHARGE
4	J A	TRUNK-REDUCED/REVERSE
4	J C	TRUNK-PERSONAL/REVERSE
4	J D	TRUNK-FEE WAIVED/REVERSE
4	J I	TRUNK-IRELAND DIRECT/REVERSE
4	JA	TRUNK-REDUCED/REVERSE
4	JAC	TRUNK/PERSONAL/RED/REVERSE
4	JAD	TRUNK-FEE WAIVED/RED/REVERSE
4	JAE	TRUNK-REDUCED/FIX TIME/REVERSE
4	JAH	TRUNK-REDUCED/ADV.DUR/REVERSE
4	JAI	TRUNK-IRL.DIR/REDUCED/REV
4	JC	TRUNK-PERSONAL/REVERSE
4	JCA	TRUNK/PERSONAL/RED/REVERSE
4	JD	TRUNK-FEE WAIVED/REVERSE
4	JDA	TRUNK-FEE WAIVED/RED/REVERSE
4	JEA	TRUNK-REDUCED/FIX TIME/REVERSE
4	JHA	TRUNK-REDUCED/ADV.DUR/REVERSE
4	JI	TRUNK-IRELAND DIRECT/REVERSE
4	JIA	TRUNK-IRL.DIR/REDUCED/REV
4	K	TRUNK-CALL CANCELLED
4	KE	TRUNK-FIXED TIME/CANCEL
4	KH	TRUNK-CALL CANCEL/ADVICE DUR
4	P I	TRUNK IRELAND DIRECT/ECONOMY
4	PI	TRUNK IRELAND DIRECT/ECONOMY
4	Q	TRUNK MINICOM
4	Q A	TRUNK-REDUCED/MINICOM
4	Q E	TRUNK-FIXED TIME/MINICOM
4	QA	TRUNK-REDUCED/MINICOM
4	QAC	TRUNK-PERSONAL/RED/MINICOM
4	QAE	TRUNK-FIXED TIME/RED/MINICOM
4	QCA	TRUNK-PERSONAL/RED/MINICOM
4	QE	TRUNK-FIXED TIME/MINICOM
4	QJA	TRUNK-REVERSE/RED/MINICOM
5		CREDIT
5	A C	CREDIT
5	C	CREDIT
5	CH	CREDIT
5	CJ	CREDIT
5	D	CREDIT
5	DHE	CREDIT



5	DJ	CREDIT
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5	IJA	CREDIT
5	A	CREDIT
5	A C	CREDIT
5	A D	CREDIT
5	ACJ	CREDIT
5	ADJ	CREDIT
5	C	CREDIT
5	CH	CREDIT
5	CHE	CREDIT
5	CJ	CREDIT
5	D	CREDIT
5	DE	CREDIT
5	DHE	CREDIT
5	E	CREDIT
5	G	CREDIT
5	H	CREDIT
5	I	CREDIT
5	IJ	CREDIT
5	IJA	CREDIT
5	J	CREDIT
5	K	CREDIT
5	O	CREDIT
5	QA	CREDIT
5	QE	CREDIT
5	5	CREDIT
6		TRUNK CALL
6	G	ALARM CLOCK
6	H	LOCAL ADVICE DURATION
6	I	LOCAL-IRELAND DIRECT
6	J	LOCAL-REVERSE CHARGE
6	K	LOCAL-CALL CANCELLED
6	Q	LOCAL MINICOM
6	G	LOCAL CLOCK
6	H	LOCAL ADVICE DURATION
6	I	LOCAL-IRELAND DIRECT
6	J	LOCAL-REVERSE CHARGE
6	K	LOCAL-CALL CANCELLED

6	Q	LOCAL MINICOM
6	A C	LOCAL-PERSONAL/REDUCED
6	A I	LOCAL-IRELAND DIRECT/REDUCED
6	AC	LOCAL-PERSONAL/REDUCED
6	AI	LOCAL-IRELAND DIRECT/REDUCED
6	C	LOCAL-PERSONAL
6	CA	LOCAL-PERSONAL/REDUCED
6	CD	LOCAL-PERSONAL/FEE WAIVED

6	CH	LOCAL-PERSONAL/ADV.DURATION
6	CJ	LOCAL-PERSONAL/REVERSE
6	D	LOCAL-FEE WAIVED
6	DHE	LOCAL-FEE WAIVED/FXT/ADV.DUR
6	G	ALARM CLOCK
6	H	LOCAL ADVICE DURATION
6	HJ	LOCAL REVERSE ADVICE DURATION
6	I	LOCAL-IRELAND DIRECT
6	I A	LOCAL-IRELAND DIRECT/REDUCED
6	IA	LOCAL-IRELAND DIRECT/REDUCED
6	IJA	LOCAL-IRL.DIRECT/REDUCED/REV
6	J	LOCAL-REVERSE CHARGE
6	K	LOCAL-CALL CANCELLED
6	Q	LOCAL-MINICOM
6	A	LOCAL REDUCED RATE
6	A C	LOCAL-PERSONAL/REDUCED
6	A CD	LOCAL-PERSONAL/RED/FEE WAIVED
6	A D	LOCAL-FEE WAIVED/REDUCED
6	A E	LOCAL-REDUCED/FIXED TIME
6	A H	LOCAL-REDUCED/ADV.DURATION
6	A J	LOCAL-REDUCED/REVERSE
6	A Q	LOCAL-REDUCED/MINICOM
6	AC	LOCAL-PERSONAL/REDUCED
6	ACH	LOCAL-PERSONAL/REDUCED/ADV.DUR
6	ACI	LOCAL-PERSONAL/IRL.DIR/REDUCED
6	ACJ	LOCAL-PERSONAL/RED/REVERSE
6	ACQ	LOCAL-PERSONAL/RED/MINICOM
6	AD	LOCAL-FEE WAIVED/REDUCED
6	ADH	LOCAL-RED/FEE WAIVED/ADV DUR
6	ADJ	LOCAL-FEE WAIVED/RED/REVERSE



6	ADM	LOCAL-FEE WAIVED/REDUCED
6	AE	LOCAL-REDUCED/FIXED TIME
6	AEJ	LOCAL-REDUCED/FIX.TIME/REVERSE
6	AH	LOCAL-REDUCED/ADV.DURATION
6	AHJ	LOCAL-REDUCED/ADV.DUR/REVERSE
6	AIC	LOCAL-PERSONAL/IRL.DIR/REDUCED
6	AIJ	LOCAL-IRL.DIR/REDUCED/REV
6	AJ	LOCAL-REDUCED/REVERSE
6	AJC	LOCAL-PERSONAL/RED/REVERSE
6	AJD	LOCAL-FEE WAIVED/RED/REVERSE
6	AJE	LOCAL-REDUCED/FIX.TIME/REVERSE
6	AJH	LOCAL-REDUCED/ADV.DUR/REVERSE
6	AJI	LOCAL-IRL.DIR/REDUCED/REV
6	AQ	LOCAL-REDUCED/MINICOM
6	AQC	LOCAL-PERSONAL/RED/MINICOM

6	C	LOCAL-PERSONAL CALL
6	C A	LOCAL-PERSONAL/REDUCED
6	C E	LOCAL-PERSONAL/FIXED TIME
6	C H	LOCAL-PERSONAL/ADV.DURATION
6	C J	LOCAL-PERSONAL/REVERSE
6	CA	LOCAL-PERSONAL/REDUCED
6	CAI	LOCAL-PERSONAL/IRL.DIR/REDUCED
6	CAJ	LOCAL-PERSONAL/RED/REVERSE
6	CAQ	LOCAL-PERSONAL/RED/MINICOM
6	CDJ	LOCAL-PERSONAL/FEE W./REV
6	CE	LOCAL-PERSONAL/FIXED TIME
6	CH	LOCAL-PERSONAL/ADV.DURATION
6	CHE	LOCAL-PERSONAL/ADV.DURATION/FXT
6	CIA	LOCAL-PERSONAL/IRL.DIR/REDUCED
6	CJ	LOCAL-PERSONAL/REVERSE
6	CJA	LOCAL-PERSONAL/RED/REVERSE
6	CQA	LOCAL-PERSONAL/RED/MINICOM
6	D	LOCAL-FEE WAIVED
6	D A	LOCAL-FEE WAIVED/REDUCED
6	D E	LOCAL-FEE WAIVED/FIXED TIME
6	D J	LOCAL-FEE WAIVED/REVERSE
6	DA	LOCAL-FEE WAIVED/REDUCED
6	DAJ	LOCAL-FEE WAIVED/RED/REVERSE

6	DE	LOCAL-FEE WAIVED/FIXED TIME
6	DEH	LOCAL-FEE WAIVED/FXT/ADV.DUR.
6	DHE	LOCAL-FEE WAIVED/FXT/ADV.DUR.
6	DJ	LOCAL-FEE WAIVED/REVERSE
6	DJA	LOCAL-FEE WAIVED/RED/REVERSE
6	E	LOCAL-FIXED TIME
6	E A	LOCAL-REDUCED/FIXED TIME
6	E C	LOCAL-PERSONAL/FIXED TIME
6	E D	LOCAL-FEE WAIVED/FIXED TIME
6	E H	LOCAL-FIXED TIME/ADV.DURATION
6	E Q	LOCAL-FIXED TIME/MINICOM
6	EA	LOCAL-REDUCED/FIXED TIME
6	EAJ	LOCAL-REDUCED/FIX TIME/REVERSE
6	EC	LOCAL-PERSONAL/FIXED TIME
6	ED	LOCAL-FEE WAIVED/FIXED TIME
6	EDH	LOCAL-FEE WAIVED/FXT/ADV.DUR.
6	EH	LOCAL-FIXED TIME/ADV.DURATION
6	EHD	LOCAL-FEE WAIVED/FXT/ADV.DUR.
6	EJA	LOCAL-REDUCED/FIX TIME/REVERSE
6	EQ	LOCAL-FIXED TIME/MINICOM
6	G	LOCAL CLOCK
6	H	LOCAL ADVICE DURATION

6	H A	LOCAL-REDUCED/ADV.DURATION
6	H C	LOCAL-PERSONAL/ADV.DURATION
6	H E	LOCAL-FIXED TIME/ADV.DURATION
6	HA	LOCAL-REDUCED/ADV.DURATION
6	H AJ	LOCAL-REDUCED/ADV.DUR/REVERSE
6	HC	LOCAL-PERSONAL/ADV.DURATION
6	HDE	LOCAL-FEE WAIVED/FXT/ADV.DUR.
6	HE	LOCAL-FIXED TIME/ADV.DURATION
6	HED	LOCAL-FEE WAIVED/FXT/ADV.DUR.
6	HJ	LOCAL-REDUCED/REVERSE
6	HJA	LOCAL-REDUCED/ADV.DUR/REVERSE
6	I	LOCAL-IRELAND DIRECT
6	I J	LOCAL-IRELAND DIRECT/REVERSE
6	I P	LOCAL IRELAND DIRECT/ECONOMY
6	IA	LOCAL-IRELAND DIRECT/REDUCED
6	IAC	LOCAL-PERSONAL/IRL.DIR/REDUCED

6	IAJ	LOCAL-IRL.DIR/REDUCED/REV
6	ICA	LOCAL-PERSONAL/IRL.DIR/REDUCED
6	IJ	LOCAL-IRELAND DIRECT/REVERSE
6	IJA	LOCAL-IRL.DIR/REDUCED/REV
6	IP	LOCAL IRELAND DIRECT/ECONOMY
6	J	LOCAL-REVERSE CHARGE
6	J A	LOCAL-REDUCED/REVERSE
6	J C	LOCAL-PERSONAL/REVERSE
6	J D	LOCAL-FEE WAIVED/REVERSE
6	J I	LOCAL-IRELAND DIRECT/REVERSE
6	JA	LOCAL-REDUCED/REVERSE
6	JAC	LOCAL-PERSONAL/RED/REVERSE
6	JAD	LOCAL-FEE WAIVED/RED/REVERSE
6	JAE	LOCAL-REDUCED/FIX TIME/REVERSE
6	JAH	LOCAL-REDUCED/ADV.DUR/REVERSE
6	JAI	LOCAL-IRL.DIR/REDUCED/REV
6	JC	LOCAL-PERSONAL/REVERSE
6	JCA	LOCAL-PERSONAL/RED/REVERSE
6	JD	LOCAL-FEE WAIVED/REVERSE
6	JDA	LOCAL-FEE WAIVED/RED/REVERSE
6	JEA	LOCAL-REDUCED/FIX TIME/REVERSE
6	JHA	LOCAL-REDUCED/ADV.DUR/REVERSE
6	JI	LOCAL-IRELAND DIRECT/REVERSE
6	JIA	LOCAL-IRL.DIR/REDUCED/REV
6	K	LOCAL-CALL CANCELLED
6	P I	LOCAL-IRELAND DIRECT/ECONOMY
6	PI	LOCAL-IRELAND DIRECT/ECONOMY
6	Q	LOCAL-MINICOM
6	Q A	LOCAL-REDUCED/MINICOM

6	Q E	LOCAL-FIXED TIME/MINICOM
6	QA	LOCAL-REDUCED/MINICOM
6	OAC	LOCAL-PERSONAL/RED/MINICOM
6	QCA	LOCAL-PERSONAL/RED/MINICOM
6	QE	LOCAL-FIXED TIME/MINICOM
7		CREDIT
7	A C	CREDIT
7	CH	CREDIT
7	CHE	CREDIT



7	CJ	CREDIT
7	DHE	CREDIT
7	IJA	CREDIT
7	A	CREDIT
7	A C	CREDIT
7	ACJ	CREDIT
7	ADJ	CREDIT
7	C	CREDIT
7	CH	CREDIT
7	CJ	CREDIT
7	D	CREDIT
7	DE	CREDIT
7	DHE	CREDIT
7	DJ	CREDIT
7	E	CREDIT
7	G	CREDIT
7	H	CREDIT
7	I	CREDIT
7	IJA	CREDIT
7	J	CREDIT
7		
7	K	CREDIT
7	O	CREDIT
7	QA	CREDIT
7	QE	CREDIT
8		CREDIT
8	QE	CREDIT

Version Control History

Version	Status	Update	Effective Date
1.0		First published draft	
2.0		<p>In paragraph 1.0 CSV files, the correct names are given for files (1.10, 1.11,1.12).</p> <p>In paragraph 1.10 TIS.BLOPSUM.DAT.CYC, two new fields are included at the end of the file FTRENTCR, FFUNTVAL.</p> <p>In paragraph 1.11 TIS.BLOPHEAD.DAT.CYC, two new fields are included (Cycle No. at the start and FPGCNTVE follows FPGCNTVS).</p> <p>In paragraph 1.12 TIS.BLOPCALL.DAT.CYC, VAR-BILLSEQ now follows VARFACCNO.</p> <p>In paragraph 1.13 TIS.BLOPRENT.DAT.CYC, VAR-BILLSEQ now follows VARFACCNO.</p> <p>Addition of a new reference file, listing the STD and telephone number for each minor account associated with a major account.</p>	
3.0		<p>In section 1.11 (TIS.BLOPHEAD.DAT.CYC), the field Name (Header) were changed to match the field names output on the header record on the file. In section 1.12 (TIS.BLOPCALL.DAT.CYC), the layout was changed so that it is in the same format as the others. The field Name (Header) were changed to match the field names output on the header record on the file. 'STD TELEPHONE' field has changed from Char 11 to Char 12 (4 digit for STD + Blank + 7 digit for Telephone number).</p> <p>In section 1.13 (TIS.BLOPRENT.DAT.CYC), the layout was changed so that it is in the same format as the others. The</p>	



		<p>field Name (Header) were changed to match the field names output on the header record on the file .</p> <p>In section 1.14 (TIS.BLOPMAJ.DAT.CYC), the layout was changed so that it is in the same format as the others. The field Name (Header) were changed to match the field names output on the header record on the file. 'STD TELEPHONE' field has changed from Char 11 to Char 12 (4 digit for STD + Blank + 7 digit for Telephone number).</p> <p>Addition of generic comment in section 1.0, covering the mandatory / optional nature of fields and the character set used.</p>	
4.0		<p>A new section had been added, that details the File transfer protocol (FTP) and how it works. Instead of 14 separate files, only one file (per account number) will be sent to the OLO server. The 14 files will now be concatenated into one file. Examples of the files and email notifications are included. Also the naming conventions of the files sent to the OLO server have been amended.</p>	
4.1		<p>Following an initial review by the CPSO's engaged with this process, a number of changes and clarifications have been made. The CUR field has been corrected on the necessary files. Clarification on the files related to the Master Account (and so not needed for minor account information) is provided. Clarification of the use of FREF in BLOPORI, and correction of the description of FACTDES in BLOPORI is included. An understanding of the ISSUE DATE within BLOPSUMA; and the inclusion of rules for identifying total / summary rows within BLOPCALL and BLOPRENT is provided.</p>	
4.2		<p>Updated to reflect the discussion at recent industry forms. The main updates are to include the information contained in the answers to a number of questions within this document.</p>	
4.3		<p>Reference added to BLOPABP, BLOPPTD, and BLOPSAV to reflect the fact that there will be no entries in these files for WLR records.</p>	
4.4		<p>Include documentation in relation to BLOPORD, BLOPORI, and BLOPOCH. Include text to explain the use of '999.99' as a VAT rate in BLOPVAT</p>	



5.0		Approved by Industry Billing Forum	
5.1		Inclusion of the call and service type codes within the document.	
5.2		Addition of 4 four fields (Allow, Type, Date, Ref) to BLOPSUMA to facilitate communication of DSFA information	
5.3		<p>Inclusion/Revision of the Following fields:</p> <p>BLOPCALL :</p> <p>SORT-NO - Increased to 6 digits from 4 digits</p> <p>STD & TELEPHONE NUMBER : STD and telephone Number is split into two different fields.</p> <p>DATE & TIME : Date and Time is split into two different fields and date changed into YYYYMMDD and time changed into HHMMSS format.</p> <p>Call Duration : This is changed from HH:MM:SS to seconds of 5 digits.</p> <p>BLOPOCH :</p> <p>FCHGDES - The description is increased to Char 50.</p> <p>Addition of two new fields: FORENFRM & FORENTO to specify the rental periods in the format YYYYMMDD</p> <p>BLOPORD :</p> <p>FCMPLDTE - Change of format from YYDDMM to YYYYMMDD. FORDDES - The description is increased to Char 50.</p> <p>BLOPORI :</p>	

		<p>FBLITDES - The description is increased to Char 50.</p> <p>BLOPRENT :</p> <p>STD & TELEPHONE NUMBER : STD and telephone Number is split into two different fields.</p> <p>Addition of two new fields: FORENFRM & FORENTO to specify the rental periods in the format YYYYMMDD</p> <p>QUANTITY & PRICE : The quantity and price fields are split into two different fields.</p> <p>BLOPHEAD:</p>	
5.4		FRUNDTE - Removed description of format YYMMDD - Text Change to - Billing Cycle Number	
5.4		Rebranded	21st October 2015
V6.0	Final	This document is based on V5.4 Implementation of Standardised Change Control.	12/06/2017