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AS400 Export Manual

For:

IAC

Submitted By: Mark Nelson

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Contract Export

The contract export utility sends new and updated contract information to IAC's AS/400 system for claims and financial reporting. Each night at 11:00 PM the contract export (newbus.upload) is executed from an entry on iacweb1 in the oracle user's crontab. The execution script sets the required environment variables for the dependencies and compiles and runs the ContractExport program. The program creates fixed-length files of the contract data (newbus and susalt). The files are sent to the AS/400 via scp. The AS/400 processes the contract data file and generates a fixed-length confirmation file (XCONFRMP.TXT). Each morning at 7 AM the confirmation file is retrieved by the XCONFRMP.download script on iacweb1 as scheduled in the oracle user's crontab. The confirmation file is then uploaded into the Production database (iacprod) and applied to the contracts to confirm new contracts as Approved or in Review.

Contract File Generation

The newbus and susalt contract files are generated by the ContractExport program. The ContractExport program takes a couple of command-line arguments. The first argument is for the database connection, while the other 2 arguments are optional. Adding the "append" argument specifies whether the contract files should be appended to versus overwritten. The "append" argument is used on Saturdays and Sundays when the AS/400 has not processed the previous day's business. (The AS/400 does not process the contract data transfer file during the weekend.) Adding the "test" argument specifies that no inserts or updates are written to the database.

The ContractExport program then instantiates a ContractExport object for generating the contract files and writing to the AS400. For generating the contract files, the ContractExport creates a ExportContracts object and logs into the database to retrieve the contract information. Then, the newbus file is opened for writing, and the new contracts are queried from the database.

The closed-ended new contracts are exported first. New contracts are determined by having either a Contract.Status or Contract_Package.Status of Pending. The list of new contract is looped through and fed back into the ExportContracts object to create the fixed-length string that is written to the newbus file. The open-ended new contracts are processed similarly without any Contract_Package associations. During this process, the statuses are updated from Pending to Submitted to indicate that they have been submitted to the AS/400 for approval.

The closed-ended updated contracts are determined using the Contract.Updated_Date and Contract_Borrower.Updated_Date. If either of these values are in the current date (updated the previous day) and the status is Approved or post-Approval, the contract will be exported in the same way as the new contracts. The open-ended updated contracts are processed similarly using the OeContract.Updated_Date and OeContract_Borrower.Updated_Date.

Once the newbus file is generated, the susalt file is created. The susalt file contains the credit card numbers of any open-ended contracts that are being transmitted. This is a security measure to separate the credit card number from the rest of the borrower's information but occurs only when the credit card number is used as the loan number in IAC's database. (Sometimes the bank chooses to use an alternate loan number rather than the credit card number, even though the loan is a credit card account.) The

newbus and susalt information is tied together using OeContract.Id, which is substituted for the loan number into the newbus file.

AS/400 Direct Writing

During the contract file generation process, the ExportContracts program also writes the exported contract information to the AS400_CONTRACT_EXPORT table in IAC's production Oracle database. This data is then to be written to the AS/400 system using a jdbc connection. However, this part of the project has been put on hold and is awaiting approval for continued development. Completion of this project would increase data security and eliminate many potential points of failure.

File Transmission

The contract data files are sent via scp to IAC's FTP internal server accessed by their AS/400 system with special authentication pathways set up to not require the passwords during the scp process. The confirmation file (XCONFRM.TXT) is retrieved similarly by scp from IAC's FTP server at 7 AM each morning after the AS/400 has presumed to have processed the contract data files.

Confirmation File Processing

The XCONFRMP.download script executes sets the appropriate environment variables, downloads the confirmation file (XCONFRM.TXT), loads the confirmation files into the database, and executes the sql script that sets in contracts as either Approved or in Review. SQLLDR is used as the tool to load the confirmation file into the database in the AS400_CONFIRMATION table using the as400confirmation.ctl control file.

The sql script ApproveSubmittedContracts.sql is run to set Submitted contracts to either Approved (indicating that they have been accepted by the AS/400) or Review (meaning they were rejected by AS/400 edit checks). The sql script loops through the records in that were uploaded into the AS400_CONFIRMATION table and searches for the contracts in Submitted status using the Loan Number and AS400 Number which identify the contract to the AS/400 system. The CONTRACT table is searched first. If a record is not found in the CONTRACT table, the OE_CONTRACT is searched for the same information. The AS400 number is generally the same for CEDP and OEDP, such that the correct contract could be in either CONTRACT or OE_CONTRACT table.

Billing/Payment Export

The BillingExport program generates the billing/payment export file (billingExport) to send contract payment information to the AS/400 system. This program is also executed by the newbus.upload scripts. The program takes the same first argument as the database connection identifier and the append argument in the same way to append the new day's data to the export file rather than overwrite the file.

The payment information exported each day is the records for the CLOSED_MONTH table that have a CLOSED_DATE equal to the current day's date. The billing export program gets these records, then the associated ACCOUNT_PRODUCT_CLASS records (for the AS/400 number), and then gets the individual payment records from the ExportPayments objects. The ExportPayments object looks up the

individual payment information, formats the information into line to be written to the AS/400 transfer file, and write a record to the AS400_BILLING_EXPORT table for direct wiring to the AS/400 system.

The billing/payment file sent the same as the contract file via scp. The AS/400 direct writing also remains unfinished for the same reasons as the contract file.

LDAP Export

The LDAPExport program exports the LDAP group, user, and account information into IAC's production Oracle database. The LDAP information is then used for reporting purposes, tying loan officers to the loans they sold.

The program operates in 2 modes: normal and update. Both modes are executed on the iacweb1 server using crontab entries for the oracle user.

The normal mode is the process that is setup to run each night at 1 AM from the LDAP.export script. Each night the LDAPExport program completely clears the data from the LDAP export tables in the database (LDAP_GROUP_USER, LDAP_USER, LDAP_GROUP_USER, and LDAP_USER_ACCOUNT) and re-populates the table from the LDAP directory.

The update mode is setup to run during the workday and is scheduled for 8 AM, 10 AM, 12 PM, 2 PM, 4 PM, and 6 PM. The update mode queries and compares the LDAP directory and database tables. Inserts are made to the various LDAP database tables as needed, but any deletions are reserved for the overnight processing.

Testing

When testing the AS400Export application, it has generally been deployed to the iacweb1 server in the directory /home/oracle/projects/IACExportTest/AS400Export/. The deployment_plan.txt file in the root of the application provides the deployment steps. There have been two primary methods for testing the AS/400 data export applications using either IAC's Testing or Production databases.

The first testing method uses data from IAC's Testing (preprod) database. Testing with IAC's preprod database allows one to freely insert and update data without impacting the Production data. However, the preprod database hasn't always had data that adequately matched data in the Production database for testing. To test using the preprod database, the database indicator argument must be preprod. For example: `java com.ebsportals.iac.export.ContractExport preprod`

The second testing method uses data from IAC's Production (iacprod) database but does not alter the Production data. This method of testing is more helpful for debugging to determine the exact cause of an error, since the data used for testing is guaranteed to be identical to the data causing the problem in the production application.

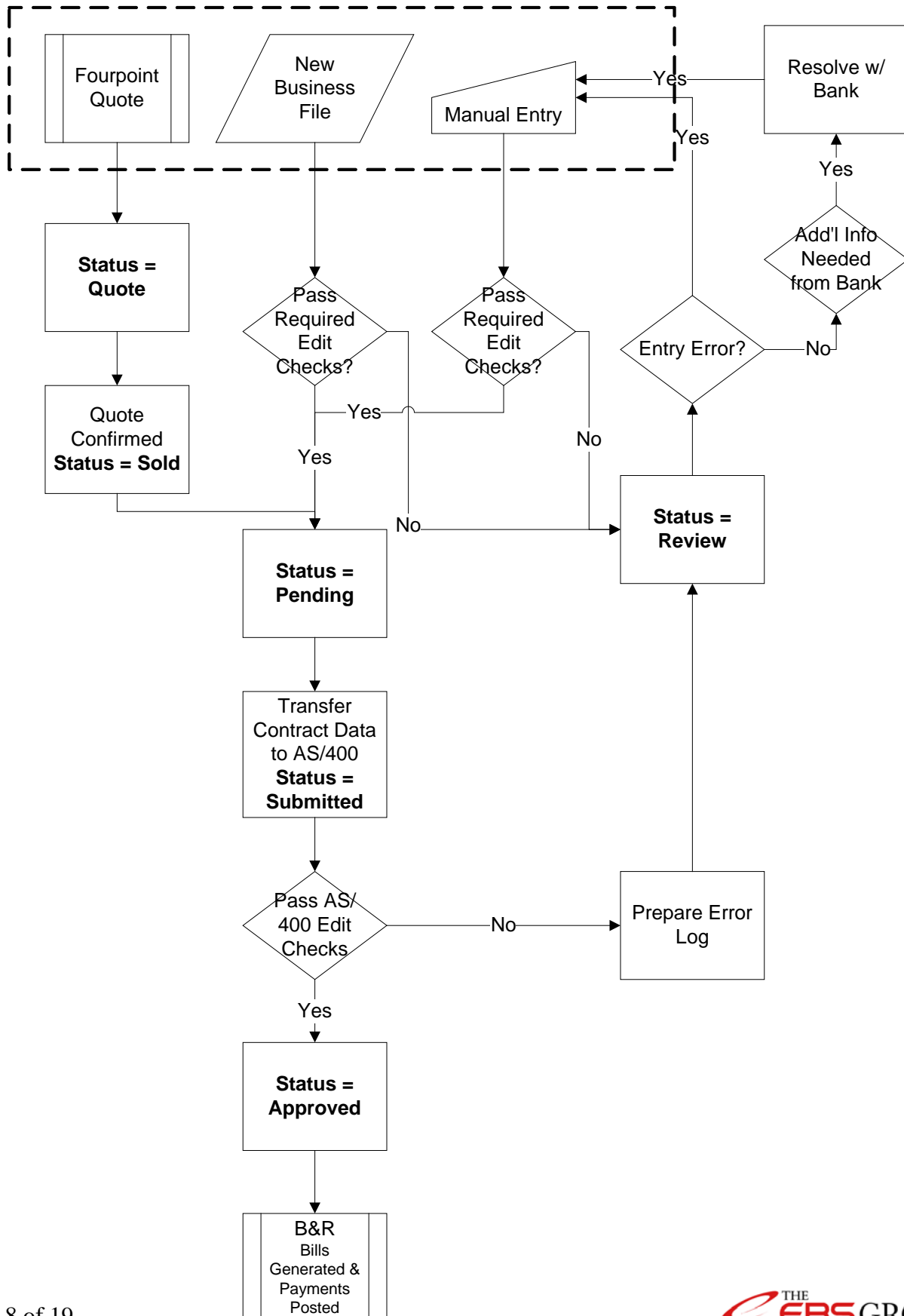
Debugging

There are many potential points of failure for the AS400 Export application. As such, there are many places to check that the application is running correctly. One must review the transfer files for the correct data transmission and several logging locations.

The log4j.log files in the AS400Export directory logs much of the application output since the scripts direct most of the output to these files. On the file generation and transmission side, one should check the oracle user server mail for any java errors that are logged from executing either the ContractExport or BillingExport programs. On the retrieval and confirmation side, the /home/oracle/newbus directory holds the log and data files. These log files include the as400confirmation.log, output.log, and XCONFRMP.bad log files.

The newbus, susalt, and billingExport files in the /home/oracle/projects/IACExport/AS400Export directory are the data transmission files that need to be reviewed. These files should be checked for proper fixed-length data structure and the presence of particular data if there is question about a particular contract. The XCONFRM.TXT confirmation file can be reviewed on both the iacweb1 server in the /home/oracle/newbus directory and on IAC's FTP server. Key properties to check on the XCONFRM.TXT file are the timestamp and reviewing the data for any rejections or presence of particular contract data.

Appendix A: Contract Status Flow



Appendix B: AS/400 Export Data Flow

Data Files Generated and Transmitted to AS/400 (11 PM)

- /home/oracle/projects/IACExport/AS400Export/newbus.upload or /home/oracle/projects/IACExport/AS400Export/newbus.append is called by crontab entry for oracle user on iacweb1 server.
- ContractExport program generates the newbus and susalt contract data files in the /home/oracle/projects/IACExport/AS400Export directory.
- newbus and susalt files are sent via scp to iacops@www2.iac-group.com
- BillingExport program generates the billingExport payment data file in the /home/oracle/projects/IACExport/AS400Export directory.
- billingExport file is sent via scp to iacops@www2.iac-group.com

AS/400 System Processing

- AS/400 retrieves the transmission files from www2.iac-group.com
- AS/400 processes transmission files and generates the XCONFRM.TXT confirmation file.

Confirmation File Retrieved and Processed (7 PM)

- The XCONFRM.TXT confirmation file is copied from www2.iac-group.com via scp to iacweb1:/home/oracle/newbus
- The confirmation file is loaded into the oracle Production database using SQLLDR.
- The ApproveSubmittedContracts.sql sql script is run to set the Submitted contracts to Approved or Review.

Appendix C: newbus file layout

Field Name	Start Position	Field Length	Decimal Positions	Field Description
SMAGNT	1	10		Agent Number ID
SMREGN	11	10		Region ID
SMTERR	21	10		Territory ID
SMBRCH	31	10		Agent Branch ID
SMOFFC	41	10		Officer ID
SMCERT	51	20		Certificate Number
SMBEN1	71	10		First Beneficiary ID
SMBEN2	81	25		Second Beneficiary ID
SMEFFT	106	8	0	Effective Date
SMDAYS	114	3	0	Extra Days Of Coverage
SMFPAY	117	8	0	First Payment Due Date
SMTERM	125	3	0	Term Of Loan
SMEXPR	128	8	0	Loan Expiration Date
SMFREQ	136	3	0	Payment Frequency
SMAMNT	139	11	2	Loan Amount
SMBALL	150	11	2	Balloon Payment Amount
SMINTR	161	7	5	Loan Interest Rate
SMSCHD	168	11	2	Scheduled Payment
SMLAMT	179	11	7	Life Premium Rate
SMDAMT	190	11	7	Disability Premium Rate
SMLCHG	201	11	2	Est. Life Annual Chg
SMDCHG	212	11	2	Est. Disability Annual Chg
SMLBEN	223	11	2	Initial Life Amount
SMDBEN	234	11	2	Monthly Disability Ben
SMFORM	245	15		Written on Form
SMTYPE	260	15		Product Type
SMCALC	275	15		Calculation Method
SMLEND	290	15		Lending Type
SMFPRM	305	8	0	First Payment Due Date
SMEFFL	313	8	0	Life Effective Date
SMTRML	321	3	0	Coverage Term Life
SMEXPL	324	8	0	Life Expiration Date
SMEFFD	332	8	0	A&H Effective Date
SMTRMD	340	3	0	Coverage Term Disability
SMEXPD	343	8	0	A&H Expiration Date
SMEFFP	351	8	0	Protection Effect Date

SMTRMP	359	3	0	DP Coverage Term
SMEXPP	362	8	0	Protection Expire Date
SMLIF	370	10		Level Coverage Code
SMDIS	380	10		Disability Coverage Code
SMDEBT	390	10		Debt Protection Code
SMFUT1	400	10		Future Use Code
SMFUT2	410	10		Future Use Code
SMIDN1	420	9	0	Customer ID Number
SMLNAM1	429	25		Patron Last Name
SMFNAM1	454	25		Patron First Name
SMMNAM1	479	25		Patron Middle Name
SMSUFX1	504	3		Patron Name Suffix
SMADD11	507	25		Address Line #1
SMADD21	532	25		Address Line #2
SMCITY1	557	25		Residence City
SMSTE1	582	2		Residence State
SMZIP1	584	10		Residence Zip Code
SMPHONE1	594	10	0	Residence Phone
SMDOB1	604	8	0	Date Of Birth
SMSEX1	612	1		Patron Gender
SMHQ01A	613	1		Health Question 01
SMHQ02A	614	1		Health Question 02
SMHQ03A	615	1		Health Question 03
SMHQ04A	616	1		Health Question 04
SMHQ05A	617	1		Health Question 05
SMHQ06A	618	1		Health Question 06
SMHQ07A	619	1		Health Question 07
SMHQ08A	620	1		Health Question 08
SMHQ09A	621	1		Health Question 09
SMHQ10A	622	1		Health Question 10
SMHQ11A	623	1		Health Question 11
SMHQ12A	624	1		Health Question 12
SMHQ13A	625	1		Health Question 13
SMHQ14A	626	1		Health Question 14
SMHQ15A	627	1		Health Question 15
SMHQ16A	628	1		Health Question 16
SMHQ17A	629	1		Health Question 17
SMHQ18A	630	1		Health Question 18
SMHQ19A	631	1		Health Question 19
SMHQ20A	632	1		Health Question 20

SMSIG1	633	1		Customer Signature
SMIDN2	634	9	0	Customer ID Number
SMLNAM2	643	25		Patron Last Name
SMFNAM2	668	25		Patron First Name
SMMNAM2	693	25		Patron Middle Name
SMSUFFIX2	718	3		Patron Name Suffix
SMADD12	721	25		Address Line #1
SMADD22	746	25		Address Line #2
SMCITY2	771	25		Residence City
SMSTE2	796	2		Residence State
SMZIP2	798	10		Residence Zip Code
SMPHNE2	808	10	0	Residence Phone
SMDOB2	818	8	0	Date Of Birth
SMSEX2	826	1		Patron Gender
SMHQ01B	827	1		Health Question 01
SMHQ02B	828	1		Health Question 02
SMHQ03B	829	1		Health Question 03
SMHQ04B	830	1		Health Question 04
SMHQ05B	831	1		Health Question 05
SMHQ06B	832	1		Health Question 06
SMHQ07B	833	1		Health Question 07
SMHQ08B	834	1		Health Question 08
SMHQ09B	835	1		Health Question 09
SMHQ10B	836	1		Health Question 10
SMHQ11B	837	1		Health Question 11
SMHQ12B	838	1		Health Question 12
SMHQ13B	839	1		Health Question 13
SMHQ14B	840	1		Health Question 14
SMHQ15B	841	1		Health Question 15
SMHQ16B	842	1		Health Question 16
SMHQ17B	843	1		Health Question 17
SMHQ18B	844	1		Health Question 18
SMHQ19B	845	1		Health Question 19
SMHQ20B	846	1		Health Question 20
SMSIG2	847	1		Customer Signature
SMEXCD	848	2		Exception Code
SMEXCP	850	8	0	Exception Date
SMDATA	858	14	0	Date Record Added
SMUSRA	872	10		User Added Record
SMDATU	882	14	0	Date Record Updated

SMUSRU	896	10		User Created Record
SMFLAG	906	1		New or Update
SMCNL	907	8	0	Loan Cancellation Date
SMCNLL	915	8	0	Life Cancellation Date
SMCNLD	923	8	0	A&H Cancellation Date
SMSOVS	931	10		Sovereign Status Code
SMSOVD	941	8	0	Status Date
SMPANI	949	11	2	Principal And Interest
SMLINE	960	11	2	Line Amount
SMCERT2	971	20		New Cert Number
SMDEAL	991	10		Dealer ID Number
SMVIN	1001	40		GAP: VIN Number
SMYEAR	1041	4	0	GAP: Auto Year
SMMAKE	1045	40		GAP: Auto Make
SMMODEL	1085	40		GAP: Auto Model
SMFEE	1125	11	2	GAP: Fee Amount
SMCOMR	1136	7	5	GAP: Commission Rate
SMGEFFT	1143	8	0	GAP: Effective Date
SMGEXPR	1151	8	0	GAP: Expiration Date
SMGSTAT	1159	10		GAP: Current Status
SMGDATE	1169	8	0	GAP: Status Date
	1177	11	2	Recurring Fee Amount

Appendix D: susalt file layout

Field Name	Start Position	Field Length	Decimal Positions	Field Description
SAAGNT	1	10		Agent Number ID
SACERT	11	20		Certificate/Loan Number
SACCRD	31	20		Secure Data

Appendix E: billingExport file layout

Field Name	Start Position	Length	Decimal Positions	Field Description	Required
BFAGNT	1	10		Agent Number ID (AS400 Number)	Required
BFBRCH	11	10		Agent Branch ID	Optional
BFCERT	21	20		Certificate/Loan Number	Required
BFNAME	41	25		Patrons Name	Optional
BCOVC	66	30		Coverage Code	Required
BFEFFT	96	8	0	Effective Date	Optional
BFFROM	104	8	0	From Date	Required
BFTHRU	112	8	0	Thru Date	Required
BFPEXPR	120	8	0	Expiration Date	Optional
BFPAID	128	8	0	Date Payment Made	Required
BFNEXT	136	8	0	Next Payment Date	Required
BFBAMT	144	11	2	Net Billed Amount	Optional
BFCOMM	155	11	2	Commission Amount Billed	Optional
BFBGRS	166	11	2	Gross Billed Amount	Optional
BFAMT	177	11	2	Net Collected Amount	Required
BFCOMP	188	11	2	Collected Commission	Required
BFGRS	199	11	2	Gross Collected Amount	Required
BFMOB	210	11	2	Current MOB	Required
BFINTR	221	7	5	Current Interest Rate	Required
BFINT	228	11	2	Current Interest	Optional
BFPRIN	239	11	2	Current Principal	Optional
BFSCHD	250	11	2	Scheduled Payment	Optional
BFMSGC	261	2		Message Code	Optional
BFMSGD	263	25		Message Description	Optional
BFCODE	288	2		Return Reason Code	Optional
BFDESC	290	25		Reason Description	Optional
BFCAND	315	8	0	Cancelled Date	Optional

- For banks that can only supply one lump sum of premium collected will need to put that premium in the Gross Collected Amount Field – the AS400 Export can then populate the Net and Commission Amount Fields
- All numeric data is to be right justified and without punctuation (No commas, periods, or dollar signs).
- All date fields are to be in CCYYMMDD format and without any punctuation
- All alpha-numeric data is to be left justified.
- All fields where the expected data can be pre-determined will be in uppercase letters.

Appendix F: AS/400 Error Code examples

Error Code	Error Code Description
A&H-PREM	Disability premium error - Disability premium calculation less than zero
AGTDTL-DIS	Agent not authorized to sell this disability coverage type.
AGTDTL-LIF	Agent not authorized to sell this life coverage type.
AGTMSTL1	Account is not on file or not active at time of policy
AH-RATDTLP	Rate detail record for disability coverage code is not on file or not active
AH-RATMSTP	Rate Master file for disability coverage is not on file or not active
AH-TERM	INVALID - Disability term exceed loan term
AH-TERM-MN	INVALID - Disability coverage term is not a valid term
AH-TERM-MX	Disability coverage term exceeds maximum allowed by IAC limits
AHAMNT	INVALID - Monthly disability amount exceeds monthly payment amount
AHAMNT-MAX	Monthly disability benefit amount exceed maximum allowed by IAC limits
AHAMNT=0	INVALID - Disability coverage amount is not a valid amount
ANNUAL-DIS	INVALID - Estimated annual charge for Disability coverage is not valid
ANNUAL-LIF	INVALID - Estimated annual charge for life coverage is not valid
BRANCH	Branch information field is REQUIRED - but no branch information found
DISCOVERAG	Disability coverage code is not on file or not active on policy effective date
DISDAILY	Disability daily calculated rate is not within IAC tolerances
FRMMSTL1	Form Number not on file or not valid for account on effective date of policy
INTCHARGE	INVALID - Interest charge calculation is not valid
INTRATE	INVALID - Interest rate on policy is not valid
LF-RATDTLP	Rate Detail file for life coverage is not on file or not active
LF-RATMSTP	Rate Master file for life coverage code is not on file or not active
LF-TERM	INVALID - Life coverage term exceed loan term
LF-TERM-MN	INVALID - Life coverage term is not a valid term
LF-TERM-MX	Life coverage term exceed maximum allowed by IAC limits
LFAMNT	INVALID - Life benefit amount exceed the loan amount
LFAMNT-MAX	Life benefit amount exceeds the maximum amount allowed by IAC limits
LFAMNT=0	INVALID - Life benefit amount is not a valid amount
LIFE-PREM	Life premium Error - Life premium calculation less than zero
LIFECOVAGE	Life coverage code is not on file or not active at policy effective date
LIFEDAILY	Life daily calculated rate is not within IAC tolerances
LOANAMTAH	Loan amount exceed maximum allowed for disability coverage code limits
LOANAMTLF	Amount of Loan exceed maximum allowed for life coverage limits
LOANAMTMN	Loan Amount of policy is not a valid amount

TRUNC-AH	Truncated Disability Coverage Term
TRUNC-LIFE	Truncated Life Coverage Term
LOANTERMMN	INVALID - term of loan is not a valid number
LONMSTL1	Account / Policy already exist on the IAC System - Please Check
OFFICER	Officer information REQUIRED - but no officer information found
PAYMNTFREQ	INVALID - Payment frequency not valid
REGION	Region information REQUIRED - but no region information found
SCHDPMT	INVALID - Scheduled payment in not a valid amount
SCHDPMTMN	Scheduled Monthly payment is below the IAC acceptable tolerance
SCHDPMTMX	Scheduled Monthly Payment is above the IAC acceptable tolerance
SECONDREQ	Joint Coverage requested but no second insured information found
SECONDREQ2	Single Coverage requested but second insured information found
SMDAYS	Extra Days does not equal time between Effective Date and First Payment Date
SMDAYS90	More than 90 extra days on this policy
SMDOB1	INVALID - First insured's date of birth is not a valid date
SMDOB2	INVALID - Second insured's date of birth is not a valid date
SMEFFT	INVALID - Contract effective date is not a valid date
SMEXPR	INVALID - Contract expiration date is not a valid date
SMEXPR2	Loan Expiration date does not equal first payment date plus months of term
SMFPAY	INVALID - First premium date is not a valid date
SMFPAY2	First payment date has already passed -
SMFPRM	INVALID - First premium date is not a valid date
SMFPRM2	First premium date has already passed
SMTRMD	INVALID - Disability coverage term is longer than term of loan
SMTRML	INVALID - Life coverage term is longer than term of loan
TERRITORY	Territory information REQUIRED - but no territory information found
1ST-FNAME	First insured's first name is blank or starts with a blank
1ST-GENDER	INVALID - First insured's gender must be "M" / "F" or " "
1ST-HQ#1	INVALID - First insured's answer to health question #1 is not valid
1ST-HQ#2	INVALID - First insured's answer to health question #2 is not valid
1ST-HQ#3	INVALID - First insured's answer to health question #3 is not valid
1ST-HQ#4	INVALID - First insured's answer to health question #4 is not valid
1ST-LNAME	First insured's last name is blank or starts with a blank
1ST-SIGNED	Certificate Processed - First Signature Not Valid
2ND-FNAME	Second insured's first name is blank or starts with a blank
2ND-GENDER	INVALID - Second insured's gender must be "M" / "F" or " "
2ND-HQ#1	INVALID - Second insured's answer to health question #1 is not valid

2ND-HQ#2	INVALID - Second insured's answer to health question #2 is not valid
2ND-HQ#3	INVALID - Second insured's answer to health question #3 is not valid
2ND-HQ#4	INVALID - Second insured's answer to health question #4 is not valid
2ND-LNAME	Second insured's last name is blank or starts with a blank
2ND-SIGNED	Certificate Processed - Second Signature Not Valid
A&H ONLY	Certificate Processed - Policy Contains A&H Coverage Only
TRUNC-DP	Truncated Coverage - Term Exceeds Agents Max. Term
DPCOVERAGE	Invalid Debt Protection Coverage selected - Please Check (MOB209 ?)
LF-RATDTL2	Rate Detail file for life coverage is not on file or not active
AGTDTL-DP	Agent not authorized to sell this disability coverage type.
DP-RATDTLP	Rate detail record for disability coverage is not on file or not active
DP-RATMSTP	Rate Master file for disability coverage is not on file or not active
DP-TERM	INVALID – Debt Protection term exceeds loan term
DP-TERM-MN	INVALID – Debt Protection coverage term is not a valid term
DP-TERM-MX	Debt Protection coverage term exceeds maximum allowed by IAC limits

Appendix G: XCONFIRM.TXT file layout

Field Name	Start Position	Field Length	Decimal Positions	Field Description
CFAGNT	1	10		Agent Number ID
CFCERT	11	20		Certificate Number
CFFLAG	31	1		Accepted / Rejected
CFERR	32	10		Error Code
CFPROC	42	14	0	Processing DateStamp

- CFFLAG is a "A" if Accepted and a "R" if rejected
- CFERR should be blank if the CFFLAG is "A"
- CFERR should be populated if the CFFLAG is a "R"
- CFERR - these error message code are provided in the file CEMOB/ERRMSGP

(You only need to concern yourself with the error codes for program MOB206 - that is where this file is created.)