



## Marketing Profile Extract

Application Name: PS\_MPI  
Application Description: MPI Data Extract  
Application: 3483

DNAapp ID add98c95-60ab-4c54-972d-ea28b8fbd9d8

**Fiserv Confidential:** Distribution restricted to:

- Clients using or considering purchase of the product described in this document
- Fiserv associates

© 2009-2023 Fiserv, Inc. or its affiliates. All rights reserved. This work is confidential and its use is strictly limited. Use is permitted only in accordance with the terms of the agreement under which it was furnished. Any other use, duplication, or dissemination without the prior written consent of Fiserv, Inc. or its affiliates is strictly prohibited. The information contained herein is subject to change without notice. Except as specified by the agreement under which the materials are furnished, Fiserv, Inc. and its affiliates do not accept any liabilities with respect to the information contained herein and is not responsible for any direct, indirect, special, consequential or exemplary damages resulting from the use of this information. No warranties, either express or implied, are granted or extended by this document.

<http://www.fiserv.com>

Fiserv is a registered trademark of Fiserv, Inc.

Other brands and their products are trademarks or registered trademarks of their respective holders and should be noted as such.

**Overview:**

This custom application creates an export file of marketing information to be imported into a 3rd party marketing analysis software.

**Key Benefits:**

This application produces specific DNA<sup>®</sup> raw data which then can be uploaded into a Business Intelligence system to be utilized for data mining, online analytical processing, querying and reporting.

Institutions use Business Intelligence data to:

- Improve decision making
- Decrease costs
- Identify new opportunities

**Processing:**

Accounts are selected based on the below runtime parameters.

**Parameters:**

Parameter	Code	Description (how used)	Required	Default
Output File Path	8OUP	The directory path for the export file.  Not required, will default to the "dated queue" directory the application was run in if no value entered.	No	Batch Queue Output Directory
Output File Name	8OUF	The file name for the export file. Example: "MPIOU.TXT"	No	MPIOU.TXT
Effective Date	EFF	Effective date of data exported.  Not required, defaults to effective date of queue.	No	Queue Effective Date
Application Code	APPL	Major Selection. Can be entered as: CK,SAV,MTG  Not required, defaults to all majors.	No	<Blank>
Exclude/Include Account S/All	EISA	Used with the Privacy Election Bank Option value. If Set to "S", will perform further test based on option values:  PRIV Bank option value = E, will select accounts that signed a Privacy Election form PRIV Bank option value = I, will select accounts that did not sign a Privacy Election form.  Not required, set to blank, No privacy test.	No	<Blank>

Parameter	Code	Description (how used)	Required	Default
Account Number	ACCT	This is a test/verification parameter. Use this to select this 'number' of accounts and print a simple report of raw information exactly as it is formatted in the export file. Not required, only for testing. <b>Note: Leave this parameter Blank to enable parallel processing</b>	No	<Blank>
eStatement Cycle Codes	8ECC	E Statement Account cycle codes. All accounts using any these acct cycle values would be assumed to be using e-Statements.  Note: This is only used for Field 1080.	No	<Blank>
Roles to Include	ROLI	This parameter controls the roles used to identify additional owners.  The default is OWN	No	OWN
Blank Output Tax ID FieldsYN	8BOF	When set to " Yes", the program will write blank spaces to the Tax ID fields: (Position 361 - 371) (Position 1034 – 1042) (Position 1043 - 1051) (Position 1943 - 1953)	No	N
Nbr of Parallel Processes	8NOP	Used to limit the number of parallel processes to run. This controls parallel query behavior for a portion of the process and is not dependent on parameter PARA.	No	4
Charge Off Minors	8COM	Comma-delimited list of minor codes designated as Charge Off products (Will be used to determine Y/N indicator for Written off loan YN)	No	<Blank>
Clear Text Credit Card Number	<b>8CLR</b>	When set to Y if the account extracted has an EXT major, and the External Account Number to be extracted in Positions 1 – 16 is encrypted, the account will be decrypted.  When set to N, the first 16 positions of the encrypted account number will be extracted.  Only used if the 8A2E parameter is set to Y	No	Y

Parameter	Code	Description (how used)	Required	Default
Swap AcctNbr With ExtAcctNbr	8A2E	<p>When set to Y if the account extracted has an EXT major, the External Account Number will be extracted in Positions 1 - 16. If External Account Number not found DNA Account Number will be extracted.</p> <p>*Note that the account number is zero filled yet the External Account Number allows alphanumeric data</p> <p>When set to N, if the account extracted has an EXT major the system assigned DNA Account Number will be extracted in Positions 1 - 16.</p>	No	Y
Account Statuses To Include	DRST	A comma-delimited list of account statuses as of the Effective Date (EFF) runtime parameter to include in the selection of accounts	No	All account statuses not equal to Closed (CLS), Approved (APPR) and Originating (ORIG)
Use Local Temp Dir for Output	8LTD	When set to Y, the output file is initially created in the system TEMP Directory, before being moved to the file path set in parameter 8OUP. For very large output files, writing to a local directory vs. a directory on a network share can significantly improve the file creation performance.	No	Y
Parallel Process YN	PARA	To enable parallel processing, set this parameter to Y. This makes use of parallel processing via the Oracle job scheduler. This parameter and parameter 8NOP are independent and setting one does not affect the other.	No	N
Average Balance Calculation	8ABC	<p>When set to 0 – Historical, the average balance will be calculated based on existing balance history</p> <p>When set to 1 – MTD, the average balance will be calculated starting with the 1<sup>st</sup> day of the month to the Effective Date (EFF) runtime parameter value</p>	No	0 - Historical
Credit Score Organization	8CRO	<p>The credit score organization for which the latest credit score needs to be used.</p> <p>If this parameter is set to a blank the application will continue to extract the latest credit score without the org number being used to select the score.</p>	No	Blank

Reports:

When the Account Number (ACCT) is blank:

```

Queue Number      : 106868
Application Number: 3483
Queue Sub Number  : 2
Run Time: 05:35:20
Cash Box:

                SCHEMA
                OSIBANK

                DATABASE NAME
                CS14.WORLD

                RELEASE
                DNA 4.6.2.0

                01-05-2021 04:03:26 PM 598015 G:\OSI\BANK\SQT\4620\BAT_EXE\PS\

                REPORT PARAMETERS

Account Number: 4897300
Account Statuses To Include: ACT
Application Code:
Average Balance Calculation: 0
Blank Output Tax ID FieldsYN: N
Charge Off Minors:
Clear Text Credit Card Number: Y
Credit Score Organization:
Effective Date:
Exclude/Include Account S/All:
Nbr of Parallel Processes: 4
Output File Name:
Output file path:
Parallel Process YN: N
Roles to Include:
Swap AcctNbr With ExtAcctNbr: Y
Use Local Temp Dir for Output: Y
e-Statement Cycle Codes:

```

```

Bank: 0001 Test Institution
Report: PS_MPI
MPI Data Extract
Marketing Profiles Extract File Listing
Application :
Run Date: 01-05-2021
Post Date: 01-05-2021
Page: 1 of 1

MPI Extract File Created Successfully.

```

When the Account Number (ACCT) runtime parameter is utilized for testing:

```

REPORT PARAMETERS

Account Number: 2
Account Statuses To Include: ACT
Application Code:
Average Balance Calculation: 0
Blank Output Tax ID FieldsYN: N
Charge Off Minors:
Clear Text Credit Card Number: Y
Credit Score Organization:
Effective Date:
Exclude/Include Account S/All:
Nbr of Parallel Processes: 4
Output File Name:
Output File Path:
Parallel Process YN: Y
Roles to Include: OWN
Swap AcctNbr With ExtAcctNbr: Y
Use Local Temp Dir for Output: Y
eStatement Cycle Codes:

Bank: 0001 Test Institution
Report: PS_MPI

MPI Data Extract
Marketing Profiles Extract File Listing
Application :

Run Date: 03-30-2022
Post Date: 03-30-2022
Page: 1 of 3

AcctNbr: 0000000013842100 P RTMT
Name1: Rbsvsa A. Coblvu
Name2:
Address1: 1744 O Oo Hz 129 Y
Address3:
CityState: T423, WV
Phone: 765-555-3371
BirthDate: 11161927
MailCd1:
Branch: 0002
SoldBal: 0000000000
Class: A
ItemCount:
PAndI: 000000
RateType:
VRUInd:
MartStatCd:
Retirement:
AcctType: RTMT
MonNSF:
90Days: 00
SicSubCode:
Sex:
OfficerCd:
MinBal: -000000030
LipBal: 0
Ach: N
CkCount:
ForeignTrans:
OnlineTrans:
MTDDeposits:
TimesLate: 000
MasterNbr: 0
AutomaticPmts: N
DateNeg: 06012015
CreditScore1: 000
CreditScore4: 000
OwnerPrivacy2: N
DirectDeposit: N
MTD-NSF-Fees: 0000000000
MTD-OverDraftFees: 0000000000
NegLimit: 0000000000
PhotoDebit: N
YTD-SC: 0000000000
Tax3:
DateDeath:
YTD-POS-Fees: 0000000000
OwnerNbr2: 0
eStatementYN: N
BusIns:
Wealth:

EmailAddress:
Name4:
Address2:
Address4:
ZIPCode: 25204-0000

SocSec: 802-09-5117
Employee:
MailCd2:
MatureDate:
Appraisal:
EscrowPmt:
LTV: 000.00
Product: IRA
SalePrice:
Census:
OpenReason:
Status: ACT
EmpCode: N
30Days: 00
120Days: 00
Rela:
SaluCd:
OrigBal: 0000000000
HighBal: -000000030
Debit:
CCard: Y
DpCount:
DebitTrans:
YTDDeposits:
MTDWithdrawals:
CollateralCd:
GroupNbr: 0
OwnerOcc:
PortName:
CreditScore2: 000
LoanRePricingDate:
OwnerPrivacy3: N
BillPay: N
YTD-NSF-Fees: 0000000000
YTD-OverDraftFees: 0000000000
OnUsCount: 000
HELOC-Debit: N
AdvCd:
DOB2:
DeliveryMethCd: ESTM
Type: P
OwnerNbr3: 0
StmntCycleCd:
HomeIns:
PrivBanking:

Term: 000
DateLastActive: 05312019
PrevMat:
DateOpened: 07302004
AcctBal: -000000030
YTDInterest: 000000
OpenAmt: 0000000000
IntRate:
AcctClass:
Investor: 0.00
Index:
TaxType:
ServNbr:
60Days: 00
SicCode:
OrigEmp:
Age: 094
AvgBal: -000000030
CreditLifeBal: 0000000000
SDBox: N
Online: Y
WdCount:
VruTrans:
YTDWithdrawals:
LoanFees: 0000000000
PurpCd:
RatePointer:
YearBuilt:
PersOrgFlag: R
CreditScore3: 000
OwnerPrivacy1: N
OwnerPrivacy4: N
NSF-Fees: 0000000000
OverDraftFees: 0000000000
MailCd3:
Statements: N
HELOC-Photo: N
Tax2:
DOB3:
MTD-POS-Fees: 0000000000
PersOrgNbr1: 9734
OwnerNbr4: 0
AutoIns:
FIIns:
Member Nbr: 3842100
    
```

```

Bank: 0001 Test Institution          MPI Data Extract          Run Date: 03-30-2022
Report: PS_MPI                      Marketing Profiles Extract File Listing
                                     Application :
                                     Post Date: 03-30-2022
                                     Page: 2 of 3

Person Typ: CUST                    Per Description: Great Customer    Company ID: 9
Company ID Desc: DELPHI              Branch Name: 0002 Main Street      SPNH User Field:
SPNH Field Value:                    GAPC User Field:                   VSAC User Field:
Delivery Type Desc:                  Mail Type:                          Mail Type Desc:
Credit Ins Code:                     Credit Ins Desc:                    Consent Type 1:
Consent Type Desc 1:                 Consent YN 1:                       Consent Type 2:
Consent Type Desc 2:                 Consent YN 2:                       Consent Type 3:
Consent Type Desc 3:                 Consent YN 3:                       Consent Type 4:
Consent Type Desc 4:                 Consent YN 4:                       Consent Type 5:
Consent Type Desc 5:                 Consent YN 5:                       Consent Type 6:
Consent Type Desc 6:                 Consent YN 6:                       Consent Type 7:
Consent Type Desc 7:                 Consent YN 7:                       Consent Type 8:
Consent Type Desc 8:                 Consent YN 8:                       City Name: T423
State: WV                            Credit Limit: 0000000000           Work Phone: 000-000-0000
Country: USA                          Charge-Off Acct YN: N              Acct Balance: -0000000000003001
Full Branch #: 00000000000000000002  Minor as of EffDate: IRA
Tax4:                                  DOB4:

Bank: 0001 Test Institution          MPI Data Extract          Run Date: 03-30-2022
Report: PS_MPI                      Marketing Profiles Extract File Listing
                                     Application :
                                     Post Date: 03-30-2022
                                     Page: 3 of 3

MPI Extract File Created Successfully.
    
```

**File Layout:**

Output File Layout – Fixed Width

Field	Format	Size	Beginning Position	Ending Position	Description
Account Number	09999999	16	1	16	Account Number. Zero Filled.  If input parameter 8A2E is set to Y, and account has an EXT major, external account number assigned to the External ID Type of Third Party (3RDP) stored on the External and/or Credit Card tabs in DNA will be written here.  For any other case or for missing external account number, DNA account number will be written.
Address 1	VARCHAR2	40	17	56	Address 1. Left justified.
Address 2	VARCHAR2	40	57	96	Address 2. Left justified.
Loan Sold Amount	0000000000V	10	97	106	Sold Balance. Zero Filled.

Field	Format	Size	Beginning Position	Ending Position	Description
Appraisal	0999999999	10	107	116	Appraisal Amount. Zero filled if value; else, space filled.
Account Balance	0000000000V	10	117	126	Current Account Balance (Note/Bal). Zero Filled.
Birth Date	MMDDYYYY	8	127	134	Pers.Birthdate
Branch Number	0000	4	135	138	Current Branch Number
City State	VARCHAR2	40	139	178	City State. Left justified.
Class	VARCHAR2	1	179	179	Deposit Acct = 'L', Loan Acct = 'A'
Previous Maturity Date	MMDDYYYY	8	180	187	AcctMiAcctHist.Inactivatedate
Employee Number	000000	5	188	192	Pers.PersNbr, AcctRoleCd = 'OEMP'. Zero filled if value; else, space filled.
Escrow Payment	000000V	6	193	198	Escrow Payment. Zero filled if value; else, space filled.
YTD Interest or Dividends	000000V	6	199	204	YTD Interest or Dividends. Zero Filled.
Month to Date Transactions	099	3	205	207	Number of trans in current month. Zero Filled.
Date Last Active	MMDDYYYY	8	208	215	Last Active Date
Loan to Value	000.00	6	216	221	Loan to Value (LTV) Current Balance / Appraisal Amount. Zero Filled.
Mail Code 1	VARCHAR2	1	222	222	Acct.MailTypCd
Mail Code 2	VARCHAR2	1	223	223	Not filled.
Maturity Date	MMDDYYYY	8	224	231	Maturity date
Name 1	VARCHAR2	40	232	271	Name 1. Left justified.
Name 2	VARCHAR2	40	272	311	Name 2. Left justified.
Date Opened	MMDDYYYY	8	312	319	Acct.ContractDate
Open Amount	0999999999	10	320	329	Original Balance, NOTE/BAL. Zero Filled.
P and I	000000	6	330	335	Current PmtAmt from AcctPmtHist. Zero Filled.
Product Code	VARCHAR2	6	336	341	Major code prefixed by a 2 digit code: CK: '10XXXX ' SAV: '00XXXX ' TD: '02XXXX ' MTG: '50XXXX ' CML: '53XXXX ' CNS: '51XXXX ' Where XXXX is the Minor Code When none of the above, then contains minor code.

Field	Format	Size	Beginning Position	Ending Position	Description
Interest Rate	00.000	6	342	347	AcctRateHist.IntRate. Zero filled if value; else, space filled.
Rate Type	VARCHAR2	3	348	350	AcctIntHist.RateTypCd
Sales Price	0999999999	10	351	360	Purchase Price
Social Security Number	VARCHAR2	11	361	371	Social Security Number
Phone	999-999-9999	12	372	383	Phone Number
Term	000	3	384	386	Term of Loan
Zip Code	99999-9999	10	387	396	Zip Code
Loan Account Class	VARCHAR2	4	397	400	Prop. PropTypCd
VRU Indicator	VARCHAR2	3	401	403	VRU
Census	VARCHAR2	8	404	411	Addr.CensusTrtNbr. Left justified.
Investor Percent Sold	999.99	6	412	417	Investor Percent Sold
Marital Status Code	VARCHAR2	4	418	421	Pers.MartStatCd
Open Reason	VARCHAR2	4	422	425	Acct.OpenFundSourceCd
Index	999	3	426	428	AcctIntHist / MjMiAcctIntHist CalcSchedNbr
Retirement	YN	1	429	429	Acct.RetirementYN
Status	VARCHAR2	4	430	433	AcctAcctStatHist.AcctStatCd
Tax Type	VARCHAR2	4	434	437	Org.TaxIdTypCd
Account Type	VARCHAR2	4	438	441	Acct.MjAcctTypCd
Employee Code	YN	1	442	442	Y/N, Is this person an employee?
Service Number		3	443	445	ATM
Monetary NSF		2	446	447	Total NSFs
30Days		2	448	449	Number of times 30 Days Late
60Days		2	450	451	Number of times 60 Days Late
90Days		2	452	453	Number of times 90 Days Late
120Days		2	454	455	Number of times 120 Days Late
Sic Code	VARCHAR2	4	456	459	OrgSic.SicCd
Sic Sub Code	VARCHAR2	4	460	463	OrgSic.SicSubCd
Address 3	VARCHAR2	40	464	503	Address 3
Address 4	VARCHAR2	40	504	543	Address 4
Relationship	VARCHAR2	12	544	555	'Relationship', UserFieldCd = 'RELA'
Originating Employee	VARCHAR2	10	556	565	Pers.PersNbr, AcctRoleCd = 'OEMP'
Salutation	VARCHAR2	4	566	569	Pers.SaluCd
Gender	VARCHAR2	1	570	570	Pers.Sex
Age (Years)		3	571	573	Calculation from Birth Date

Field	Format	Size	Beginning Position	Ending Position	Description
Email Address	VARCHAR2	40	574	613	Email address of the tax owner person/organization. For persons, the email address with the address use code set in the Home Email Address Use Cd (HEML) variable. For organizations, the email address with the address use code set in the Business Email Address Use Cd (BEML) variable.
Name 4	VARCHAR2	40	614	653	Name 4
Officer Code (Dep / Loan)	VARCHAR2	10	654	663	Pers.PersNbr, AcctRoleCd = 'LOFF', 'DEPO'
Original Balance	0999999999	10	664	673	Opening Balance
Average Balance	0999999999	10	674	683	If Average Daily Balance (8ABC) runtime parameter is set to Historical, average balance will be calculated based on existing balance history  If Average Daily Balance (8ABC) runtime parameter is set to MTD, average balance will be calculated starting with the 1 <sup>st</sup> day of the month to the Effective Date (EFF) runtime parameter value
Minimum Balance	0999999999	10	684	693	Lowest of BalAmt from AcctBalHist
High Balance	0999999999	10	694	703	Highest of BalAmt from AcctBalHist
Credit Life Balance	0000000000V	10	704	713	AcctBalHist, BalCat = 'LIFE' and BalTyp = 'SINS','FIN','MINS'. Left justified, space filled.
Lip Balance	8888888888V	10	714	723	AcctBalHist, BalCat = 'LIP' and BalTyp = 'BAL'
Debit Card	YN	1	724	724	Y/N, Does this person also have a Debit Card
Safe Deposit Box	YN	1	725	725	Y/N, Does this person also have a Safe Deposit Box
Ach (Allot)	YN	1	726	726	Y/N, Does this person also have Ach (Allotment)
Credit Card (External)	YN	1	727	727	Y/N, Does this person also have a Credit Card

Field	Format	Size	Beginning Position	Ending Position	Description
Internet Banking YN	YN	1	728	728	Y/N, Does this person also have a Internet Banking
Checks Per Month	00000	5	729	733	Average Checks per month, Since opening
Deposits Per Month	00000	5	734	738	Average Deposits per month, Since opening
Withdrawals Per Month	00000	5	739	743	Average Withdrawals per month, Since opening
Foreign Item Trans (ATM)	000	3	744	746	Average ATM trans per month, Since opening
Debit Card Trans (DBT)	000	3	747	749	Average Debit Card trans per month, Since opening
VRU Trans (VRU)	000	3	750	752	Average VRU Trans per month, Since opening
Internet Trans (WWW)	000	3	753	755	Average Internet trans per month, Since opening
YTD Deposits	0000000000V	10	756	765	Total year to date deposits. Zero filled.
YTD Withdrawals	0000000000V	10	766	775	Total year to date withdrawals. Zero filled.
MTD Deposits	0000000000V	10	776	785	Total month to date deposits. Zero filled.
MTD Withdrawals	0000000000V	10	786	795	Total month to date withdrawals. Zero filled.
Loan Fees Balances	0000000000V	10	796	805	Total loan fee balances, balance from AcctBalHist where BalTypCd in 'FEE', 'COST', 'FINT'
Times Late	000	3	806	808	Number of time late, sum of 30d, 60d, 90d, 120d from above.
Collateral Loan	YN	1	809	809	Does this account have a collateral loan?
Purpose Code	VARCHAR2	4	810	813	Loan purpose code
Master Nbr	8888888888	10	814	823	Participation Loan – Agreement Number
Group Nbr	8888888888	10	824	833	Participation Loan – Org Number
Rate Pointer	VARCHAR2	6	834	839	Calculation Schedule Number. Left justified, space filled.
Automatic Payments	YN	1	840	840	Y/N, Allotment for this account
Owner Occupied	YN	1	841	841	Y/N, Property owner occupied
Year Built	YYYY	4	842	845	Year property built

Field	Format	Size	Beginning Position	Ending Position	Description
Date last Negative	MMDDYYYY	8	846	853	Date account last was negative
Portfolio Owner	VARCHAR2	40	854	893	Pers.Name, AcctRoleCd = 'LOFF', 'ACTO'
Account Business or Retail Flag (B/R)	VARCHAR2	1	894	894	If the Account has a TaxRptForOrgNbr, value will be 'B'; if the Account has a TaxRptForPersNbr, value will be 'R'
Credit Score 1	000	3	895	897	Credit Score for Name 1 (From PersCreditScoreHist if Name 1 is a person; From OrgCreditScoreHist if Name 1 is an org.). Zero filled.
Credit Score 2	000	3	898	900	Credit Score for Name 2 (From PersCreditScoreHist if Name 2 is a person; From OrgCreditScoreHist if Name 2 is an org.). Zero filled.
Credit Score 3	000	3	901	903	Credit Score for Name 3 (From PersCreditScoreHist if Name 3 is a person; From OrgCreditScoreHist if Name 3 is an org.). Zero filled.
Credit Score 4	000	3	904	906	Credit Score for Name 4 (From PersCreditScoreHist if Name 4 is a person; From OrgCreditScoreHist if Name 4 is an org.). Zero filled.
Loan Repricing Date	MMDDYYYY	8	907	914	Last Rate Change Date
Opt Out for Name 1	VARCHAR2	1	915	915	Value in PrivacyYN on Pers or Org depending on Name 1
Opt Out for Name 2	VARCHAR2	1	916	916	Value in PrivacyYN on Pers or Org depending on Name 2
Opt Out for Name 3	VARCHAR2	1	917	917	Value in PrivacyYN on Pers or Org depending on Name 3
Opt Out for Name 4	VARCHAR2	1	918	918	Value in PrivacyYN on Pers or Org depending on Name 4
Direct Deposit	YN	1	919	919	If an 'XDEP' exists in the transaction history for account for month that application is run, i.e. Application run on 5/31/2007 – If 'XDEP' exists for month of May

Field	Format	Size	Beginning Position	Ending Position	Description
Bill Pay	YN	1	920	920	If a transaction exists for month that application is run, i.e. Application run on 5/31/2007 – If 'XWTH' exists for month of May with an external transaction description.
NSF Fees	0000000000V	10	921	930	Account Level/Product Level/System Level value of the 'NSF' Calculation Variable for 'Flat Fee'. Zero filled.
NSF Fees MTD	0000000000V	10	931	940	Sum of TranAmt.Rtxn for RtxnTypCd = 'NSF' for month that application is run, i.e. Application run on 5/31/2007 – Month to date totals will be for month of May. Zero filled.
NSF Fees YTD	0000000000V	10	941	950	Sum of TranAmt.Rtxn for RtxnTypCd = 'NSF' for year that application is run, i.e. Application run on 5/31/2007 – Year to date totals will be for 2007. Zero filled.
Overdraft Fees	0000000000V	10	951	960	Account Level/Product Level/System Level value of the 'ODSC' should be ODA Calculation Variable for 'Calculation Schedule' and corresponding tier value. Zero filled.
Overdraft Fees MTD	0000000000V	10	961	970	Sum of TranAmt.Rtxn for RtxnTypCd = 'ODSC' should be ODA for month that application is run, i.e. Application run on 5/31/2007 – Month to date totals will be for month of May. Zero filled.
Overdraft Fees YTD	0000000000V	10	971	980	Sum of TranAmt.Rtxn for RtxnTypCd = 'ODSC' should be ODA for year that application is run, i.e. Application run on 5/31/2007 – Year to date totals will be for 2007. Zero filled.
Mail Code 3	VARCHAR2	1	981	981	Acct.MailTypCd for Name 3 HOLD=1,NOAD=2, PICK=3, REG=4, SPEH=5, LCAS=6, EMP=7, FRGN=8, Other=' '

Field	Format	Size	Beginning Position	Ending Position	Description
Mail Code 4	VARCHAR2	1	982	982	Acct.MailTypCd for Name 4 HOLD=1,NOAD=2, PICK=3, REG=4, SPEH=5, LCAS=6, EMP=7, FRGN=8, Other=' '
Equity Amount	0000000000V	10	983	992	OrigBal.AcctSubAcct or CreditLimitAmt.AcctLoanLimi tHist minus BalAmt.AcctBalHist for Note/Bal. Zero filled.
Late Charges – Loans	0000000000V	10	993	1002	Life of Loan Late Charges. Zero filled.
Limit to go Negative	0000000000V	10	1003	1012	Account Level/Product Level/System Level value of Calculation Variable 'O/D Threshold For NSF/UCF'. Zero filled.
Number of On-Us Items	000	3	1013	1015	Count of RtxnTypCd of ( 'CWTH', 'ONUS', 'CCUS', 'CKUS') for month that application is run, i.e. Application run on 5/31/2007 – Month to date totals will be for month of May. Zero filled.
Statements	YN	1	1016	1016	For Statement Cycle, any delivery method of 'Printed Statement', 'Email and Print', 'Electronic Banking and printed form' will produce a 'Y' value
Photo Debit Card	YN	1	1017	1017	'Y' or 'N' based on 'DEBP' Card Agreement Type
HELOC Debit Card	YN	1	1018	1018	'Y' or 'N' based on 'BDB' Card Agreement Type
HELOC Photo Debit Card	YN	1	1019	1019	'Y' or 'N' based on 'BDBP' Card Agreement Type
Service Charges YTD	0000000000V	10	1020	1029	Sum of TranAmt.Rtxn for any RtxnCatCd = 'SC' (except for 'NSF'/'ODSC' should be ODA RtxnTypCds) & corresponding RtxnTypCd for year that application is run, i.e. Application run on 5/31/2007 – Year to date totals will be for 2007. Zero filled.
Advertising Code	VARCHAR2	4	1030	1033	Value from Person User Field 'ADCD'
Tax ID 2	VARCHAR2	11	1034	1044	Tax ID for Name 2. Left justified, space filled.

Field	Format	Size	Beginning Position	Ending Position	Description
Tax ID 3	VARCHAR2	11	1045	1055	Tax ID for Name 3. Left justified, space filled.
DOB 2	MMDDYYYY	8	1056	1063	Date of birth for Name 2
DOB 3	MMDDYYYY	8	1064	1071	Date of birth for Name 3
Date of Death	MMDDYYYY	8	1072	1079	Date for Death (if tax Reported For is a person)
Stmt Delivery Method Code	VARCHAR2	4	1080	1083	The Accounts statement delivery method Code
POS Overdraft Fees MTD	0000000000V	10	1084	1093	Sum of TranAmt.Rtxn for RtxnTypCd = '8POF' for month that application is run, i.e. Application run on 10/31/2010– Month to date totals will be for month of October. Zero filled.
POS Overdraft Fees YTD	0000000000V	10	1094	1103	Sum of TranAmt.Rtxn for RtxnTypCd = '8POF' for year that application is run, i.e. Application run on 10/31/2010 – Year to date totals will be for 2010. Zero filled.
Person / Organization Indicator	VARCHAR2	1	1104	1104	P = Person owned account. O = Organization owned account
Person / Organization Number	888888888888	22	1105	1126	The internal person or organization number of the tax owner of the account.
Person / Organization Number 2	888888888888	22	1127	1148	The internal person or organization number of Name 2
Person / Organization Number 3	888888888888	22	1149	1170	The internal person or organization number of Name 3
Person / Organization Number 4	888888888888	22	1171	1192	The internal person or organization number of Name 4
eStatement YN flag	YN	1	1193	1193	If value of Account Field 'ONST' is 'ACPT' a Y will be extracted; else, N
Statement Cycle Code	VARCHAR2	4	1194	1197	The Statement Production cycle code attached to account, or if account attached to statement account, the cycle code for the statement account

Field	Format	Size	Beginning Position	Ending Position	Description
Auto Insurance Code	MMDDYYYY	8	1198	1205	'IAUT' Person or Organization Field value for Tax Owner
Business Insurance Code	MMDDYYYY	8	1206	1213	'IBUS' Person or Organization Field value for Tax Owner
Home Insurance Code	MMDDYYYY	8	1214	1221	'IHOM' Person or Organization Field value for Tax Owner
FI Insurance Code	MMDDYYYY	8	1222	1229	'IFIS' Person or Organization Field value for Tax Owner
Wealth Management	VARCHAR2	4	1230	1233	'WLTH' Person or Organization Field value for Tax Owner
Private Banking	VARCHAR2	4	1234	1237	'PRBK' Person or Organization Field value for Tax Owner
Member Number	09999999	22	1238	1259	Member Number. Zero Filled.
Person Type Code	CHAR	4	1260	1263	Person Type Code for tax owner if tax owner is a person
Person Type Description	AlphaNumeric	30	1264	1293	Person Type Description of Person Type Code
Company ID (SEG Code)	AlphaNumeric	4	1294	1297	Member Group Code
Company ID Description	AlphaNumeric	40	1298	1337	Member Group Description of Member Group Code
Branch Name	AlphaNumeric	60	1338	1397	Branch organization name of number extracted in position 135 - 138
SPNH Person User Field Code	AlphaNumeric	4	1398	1401	SPNH will be extracted if the user field SPNH exists on the tax owner only if the value equals SO or PS
SPNH Person User Field Value	AlphaNumeric	2	1402	1403	Value of SPNH Person User Field Code if exists for tax owner only if the value equals SO or PS
GAPC Account User Field Code	AlphaNumeric	4	1404	1407	GAPC will be extracted if the user field GAPC exists on the account and has a value
VSAC Account User Field Code	AlphaNumeric	4	1408	1411	VSAC will be extracted if the user field VSAC exists on the account and has a value

Field	Format	Size	Beginning Position	Ending Position	Description
Delivery Type Description	AlphaNumeric	40	1412	1451	Delivery Method description for Delivery Method code extracted in position 1080 through 1083
Mail Type Code	AlphaNumeric	4	1452	1455	Account's Mail Type code
Mail Type Description	AlphaNumeric	30	1456	1485	Mail Type description for Mail Type code extracted in position 1476 - 1479
Credit Insurance Code	AlphaNumeric	4	1486	1489	If the account is a loan, and the Simple Insurance (SINS) Balance Type exists with a Next Earnings Date, the Balance Category Code will be extracted
Credit Insurance Description	AlphaNumeric	30	1490	1519	If the account is a loan, and the Simple Insurance (SINS) Balance Type exists with a Next Earnings Date, the Balance Category Description will be extracted
Consent Type Code 1	AlphaNumeric	4	1520	1523	If the tax owner is a person, and an active consent exists, the consent code will be extracted
Consent Type Description 1	AlphaNumeric	30	1524	1553	If the tax owner is a person, and an active consent exists, the consent code description will be extracted
Consent YN 1	YN	1	1554	1554	If the tax owner is a person, and an active consent exists, the consent YN will be extracted
Consent Type Code 2	AlphaNumeric	4	1555	1558	If the tax owner is a person, and an additional active consent exists, the consent code will be extracted
Consent Type Description 2	AlphaNumeric	30	1559	1588	If the tax owner is a person, and an additional active consent exists, the consent code description will be extracted
Consent YN 2	YN	1	1589	1589	If the tax owner is a person, and an additional active consent exists, the consent YN will be extracted
Consent Type Code 3	AlphaNumeric	4	1590	1593	If the tax owner is a person, and an additional active consent exists, the consent code will be extracted

Field	Format	Size	Beginning Position	Ending Position	Description
Consent Type Description 3	AlphaNumeric	30	1594	1623	If the tax owner is a person, and an additional active consent exists, the consent code description will be extracted
Consent YN 3	YN	1	1624	1624	If the tax owner is a person, and an additional active consent exists, the consent YN will be extracted
Consent Type Code 4	AlphaNumeric	4	1625	1628	If the tax owner is a person, and an additional active consent exists, the consent code will be extracted
Consent Type Description 4	AlphaNumeric	30	1629	1658	If the tax owner is a person, and an additional active consent exists, the consent code description will be extracted
Consent YN 4	YN	1	1659	1659	If the tax owner is a person, and an additional active consent exists, the consent YN will be extracted
Consent Type Code 5	AlphaNumeric	4	1660	1663	If the tax owner is a person, and an additional active consent exists, the consent code will be extracted
Consent Type Description 5	AlphaNumeric	30	1664	1693	If the tax owner is a person, and an additional active consent exists, the consent code description will be extracted
Consent YN 5	YN	1	1694	1694	If the tax owner is a person, and an additional active consent exists, the consent YN will be extracted
Consent Type Code 6	AlphaNumeric	4	1695	1698	If the tax owner is a person, and an additional active consent exists, the consent code will be extracted
Consent Type Description 6	AlphaNumeric	30	1699	1728	If the tax owner is a person, and an additional active consent exists, the consent code description will be extracted
Consent YN 6	YN	1	1729	1729	If the tax owner is a person, and an additional active consent exists, the consent YN will be extracted

Field	Format	Size	Beginning Position	Ending Position	Description
Consent Type Code 7	AlphaNumeric	4	1730	1733	If the tax owner is a person, and an additional active consent exists, the consent code will be extracted
Consent Type Description 7	AlphaNumeric	30	1734	1763	If the tax owner is a person, and an additional active consent exists, the consent code description will be extracted
Consent YN 7	YN	1	1764	1764	If the tax owner is a person, and an additional active consent exists, the consent YN will be extracted
Consent Type Code 8	AlphaNumeric	4	1765	1768	If the tax owner is a person, and an additional active consent exists, the consent code will be extracted
Consent Type Description 8	AlphaNumeric	30	1769	1798	If the tax owner is a person, and an additional active consent exists, the consent code description will be extracted
Consent YN 8	YN	1	1799	1799	If the tax owner is a person, and an additional active consent exists, the consent YN will be extracted
City Name	AlphaNumeric	30	1800	1829	City Name of field extracted in position 139 - 178
State	AlphaNumeric	2	1830	1831	State Code of field extracted in position 139 - 178
Credit Limit	0000000000V	10	1832	1841	Credit Limit as of Effective Date runtime parameter
Work Phone	999-999-9999	12	1842	1853	The Phone Use Code will be determined by the Institution Option 'Business Phone' (BPHE), and if exists for the Tax Owner, the value will be extracted
Country	XXXX	4	1854	1857	Country Code of field extracted in position 139 - 178

Field	Format	Size	Beginning Position	Ending Position	Description
Charge-Off Account YN	YN	1	1858	1858	If the tax owner number extracted in position 1105 – 1126 exists as a tax owner on a loan with a product (minor code) listed in the Charge Off Minors (8COM) runtime parameter OR exists as a tax owner on a loan with a status of Chargeoff (CO), a Y will be extracted, else N will be extracted
Account Balance	0999999V99	18	1859	1876	Current Account Balance. Right Justified. Zero Filled. Amount includes cents and decimal is implied.
Branch Number	09999999	22	1877	1898	Branch Number. Zero Filled.
Product	AlphaNumeric	4	1899	1902	Minor Code as of Effective Date runtime parameter.
Name 3	VARCHAR2	40	1903	1942	Name 3
Tax ID 4	VARCHAR2	11	1943	1953	Tax ID for Name 4. Left justified, space filled.
DOB 4	MMDDYYYY	8	1954	1961	Date of birth for Name 4

Note: Various fields above may be subject to the standard yearly purge process

### Configuration Checklist:

Item	Test Environment	Production Environment
Parameters		

### Installation:

**Note:** If you obtained this application from the AppMarket, please disregard the installation instructions below. If you did not obtain this application from the AppMarket, please complete the installation instructions below.

- Copy PS\_MPI.SQT to the Batch Process to the PS batch application directory; the location specified in the PS Batch Report Directory 'BATP' Institution Option.
- This application includes custom stored procedures that need to be loaded on the database. As with any stored procedure, please do not load it while the system is in ONLINE mode, or while batch is running. To load the stored procedures please use the Oracle Object Manager in the SAF Resource Kit.

To download Resource Kit: On Extranet, go to [Core --> SAF --> SAF Resource Kit Releases](#) --> 'latest release' --> Download File. This will install the resource kit.

To run the utilities: Start --> All Programs --> Open Solutions Resource Kit will open windows explorer showing various utilities. Open OracleObjectManager and launch OSI.SafRk.OracleObjectManager.exe.

The SAF Resource Kit tools use Oracle client and therefore should preferably be run from App Server -- or at least from a machine that has Oracle client installed on it.

It is important that the following steps be performed in the exact order as follows.

The following stored procedures must be loaded first:

- PACK\_PS\_COMMON\_PACK\_WRAP.SQL
  - PACK\_PS\_COMMON\_PBOD\_WRAP.SQL
  - PACK\_PS\_PIIPROTECTOR\_PACK\_WRAP.sql
  - PACK\_PS\_PIIPROTECTOR\_PBOD\_WRAP.sql
- This application requires the running of the script PS\_MPI\_install.SQL (Setup Script), pack\_ps\_common\_view\_install.sql, pack\_PS\_PIIPROTECTOR\_install.sql and PS\_MPI\_DDL.sql.  
Copy this file to any directory accessible to the applicable SQL application (SQL Developer, PL/SQL Developer, etc.) You need to run the setup script to register the application.
  - This application includes custom stored procedures that need to be loaded on the database.
    - PACK\_PS\_MPI\_WRAP.sql
    - PACK\_PS\_MPI\_PBOD\_WRAP.sql
  - This application requires an Authorization Key. After the primary installation instructions have been completed, you must apply the supplied Authorization Key for this application.

To enter the Authorization Key, go to Services >> System >> Institution >> Applications >> Application Manager.

### Revisions:

Date	App Version #	Change
07/2023	1.0.0.4	Modified for Voltage Phase 3.
11/2022	1.0.0.3	Increased size of Taxid column from varchar2(60) to varchar(100)
06/2022	1.0.0.2	Added organization email address; clarified email address description in document.
06/2022	1.0.0.1	Validation findings fixed.
02/2022	1.0.0.1	Modified for Voltage phase 2
12/2020	1.0.0.0	Validation findings fixed.
12/2020	1.0.0.0	EXTN folder created, single setup script used for Batch/App.
11/2020	1.0.0.0	Added DOB 4 and Tax ID 4 to end of extract.

Date	App Version #	Change
11/2020	1.0.0.0	Added Name 3 field to end of extract.
08/2020	1.0.0.0	Changed label to Fiserv Confidential
06/2020	1.0.0.0	Documentation Update – Removed Blank Page.
06/2020	1.0.0.0	Support for migration of delivery method code to account .
01/2020	1.0.0.0	Added parameter Credit Organization Score(8CRO) to parameter list, updated the documentation footer and changed copyright date to 2020.
12/2019	1.0.0.0	Documentation update – Status field from Current Status to Status as of Effective Date
02/2018	1.0.0.0	Documentation update - Added Fiserv Confidential Label
04/2017	1.0.0.0	Corrected Loan Late Charges
08/2016	1.0.0.0	Corrected BillPay
05/2016	1.0.0.0	Fixed AcctCycleCd
01/2015	1.0.0.0	Added 8ABC runtime parameter to optionally change calculation of Average Balance field
09/2014	1.0.0.0	Fixed issue with incorrect value sometimes appearing in Product field
08/2014	1.0.0.0	Added parameters PARA and 8LTD.
08/2014	1.0.0.0	Added parallel processing
07/2013	1.0.0.0	Added 3 new input parameter 8CLR,8A2E and DRST
06/2013	1.0.0.0	Added full Branch number and minor code as of EFF runtime parameter
06/2013	1.0.0.0	Updated Product Code Description
05/2013	1.0.0.0	Updated Documentation
03/2013	1.0.0.0	Added Work Phone, Country, Chargeoff, Balance positions 1842 to 1876
03/2013	1.0.0.0	Added 41 fields from position 1238 to 1831 Added Credit Limit position 1832 to 1841 Changed Branch Name starting position in doc from 1337 to 1338 (typo only)
09/2012	1.0.0.0	Changed 8NOP parameter default from 0 to 4
08/2012	1.0.0.0	Added 8NOP parameter to limit the number of parallel processes to run
06/2012	1.0.0.0	Changed format of Auto Insurance Code, Business Insurance Code, Home Insurance Code, FI Insurance Code values from VARCHAR2 (4) to DATE YYYYMMDD (8)
04/2012	1.0.0.0	Added Auto Insurance, Business Insurance, Home Insurance, FI Insurance, Private Banking and Wealth - Person and Org field values
03/2012	1.0.0.0	Updated logo Added installation instructions Added eStatementYN and StmtCycleCd to end of extract Added formatting of fields