

APPENDIX E ACCOUNT NUMBER CHECK DIGIT VERIFICATION (CDV)

E.1. The BANKSERV CDV routine has been generated using the following references:

E.1.1 **The BANKSERV Magnetic Tape Service User Manual "CDV Parameter Table"** (Pages E-6 and E-7).

This table gives the following details:

- (i) Branch Code Ranges.
- (ii) Account Type.
 - 1 = Current (cheque) Accounts.
 - 2 = Savings Accounts.
 - 3 = Transmission Accounts.
 - 4 = Bond Accounts.
 - 6 = Subscription Share Accounts.
- (iii) Account Indicator (Acct Indic) refer also Account Indication Table (Page E-5).
- (iv) Modulus.
- (v) Fudge Factor.
- (vi) Weighting Digits 11 through 1.
- (vii) Exception Code.

E.1.2 **Bank Branch Names Listing (CIRTS52) or Bank Branch and CDV Magnetic Tape. (CIM900 – Appendix I)**

From this list or file the following details can be obtained relating to the CDV routine:

- (i) Valid Bank branch codes for the Magnetic Tape Service.
- (ii) Stream code.
 - 00 - 49 = Computerised branches.

E.1.3 **The Account Type Recognition Table (Pages E-8 to E-13).**

This table is based on regarding the least significant digit of the account number as 1.

- (i) The most/least significant digit in an account number is determined in the following manner:

An account number containing 10 digits.

eg 8712394156

As indicated above the digit "8" is regarded as the most significant number and the digit "6" the least significant number.

Therefore regarding the most significant digit of the account number as 1, the 1st digit of the account number is "8" and the 10th digit is "6".

Regarding the least significant digit of the account number as 1, the 1st digit of the account number is "6" and the 10th digit is "8".

- (ii) The length of the account number should always equal the number in the "NO. OF DIGITS" column and preceding zeros must be taken into account.

E.2. Check Digit Verification Routine

Referring to the Bank Branch code and account number before you, the CDV parameter table is used in the following manner:

- (i) Check that the branch is valid by referring to the Bank branch names list (CIRTS52) or Magnetic Tape (CIM900 – Appendix I).
- (ii) Determine whether the branch is computerised or non-computerised by referring to the "stream code" column in the Bank Branch Names List/tape (CIRTS52 or CIM900). Refer E.1.2 (ii).
- (iii) Having located the range, establish the account type in the next column "Account Type".
- (iv) Having established the account type determine the "Acct Indic" by referring to the Acct Indic column. To establish whether the account number is check-digit-verifiable or not, use the "Acct Indic" code and apply to the Account Indication Table on Page E-5. (Remember the computerised status from (ii) above.)

If the Account No. is Check-Digit-Verifiable:

- (v) Multiply each digit of the account number by the corresponding weighting in the "weighting digits" column and total the products. (The A, D, H, J, N, T in the "weighting digits" column indicates the following: A = 10, D = 13, H = 17, J = 19, N = 23, T = 29.)
- (vi) Add the fudge factor given in the "fudge factor" column.
- (vii) Divide by the modulus given in the "modulus" column. The remainder must be zero unless otherwise specified in the "exception code" column.

Where an exception is indicated in the "exception code" column the additional procedures listed are necessary.

Exception Code (b)

Mercantile Bank

The remainder may be 1 if the least significant digit of the account number is 0 or 1.

Exception Code (d)

HBZ Bank

(New 11 digit account Number)

NOTE: For New 11 digit Current and Savings Accounts, The remainder may be 1 if the least significant digit of the account number is 0 or 1

For (Current Accounts)

Regarding the least significant digit as digit no. 1, the value of digit 11 must = 1 and digit 10 must = 1

For (Savings Accounts)

Regarding the least significant digit as digit no. 1, the value of digit 11 must = 1 and digit 10 must = 3

OR

(Old 8 or 10 digit account Number)

Should the account number fail the CDV on page E-7 and the above exception, and the most significant digit of the account number is zero it is then assumed that it is an "OLD" account number and no validation is required.

Exception Code (e)

Nedbank Inc. BoE Bank; Nedbank Ltd. Inc. PEP Bank

Regarding the least significant digit of the account number as digit number 1, the value of digits 1 and 2 must be greater than 00
AND

Regarding the least significant digit of the account number as digit number 1, digit 11 must always be 0. Digit 10 must always be greater than 0.

Exception Code (f)

ABSA Bank, Meeg Bank

In determining the number of characters in an ABSA account number, bear in mind that preceding zeros must not be ignored (eg a 9-digit account number of 000 000 001 would appear to be only 1 character long if the preceding zeros are ignored). When performing exception code (f), run through each validation consecutively until the account number passes on any one of the undermentioned validations, thus indicating that the account number is valid.

If the Account Number is 11 digits long, regarding the least significant digit as digit no. 1, and digits 11 and 10 are "53", then the following CDV Routine applies:

ACCT TYPE	=	2
ACCT INDIC	=	4
WEIGHTING DIGITS 11 THRU 1	=	0000000000
FUDGE FACTOR	=	00
MODULUS	=	00

Note: The above validation routine applies only to account numbers beginning with 53, and have no significance to the remainder of the ABSA validation routine below - All other ABSA account numbers must continue to be validated with the CDV routines as set out below;

WEIGHTING DIGITS 11 THRU 1	=	17329874321
FUDGE FACTOR	=	00
MODULUS	=	10

OR

Where the account fails the above CDV routine, apply the following CDV routine:-

WEIGHTING DIGITS 11 THRU 1	=	14327654321
FUDGE FACTOR	=	00
MODULUS	=	11

OR

Where the account fails the above CDV routine, apply the following CDV routine:-

WEIGHTING DIGITS 11 THRU 1	=	54327654321
FUDGE FACTOR	=	00
MODULUS	=	11

Note: Where the account number is 10 or 11 digits long, the remainder may be 1 if the least significant digit of the account number is 0 or 1.

OR

Where the account number fails the above CDV ROUTINE, apply the following CDV routine:-

WEIGHTING DIGITS 11 THRU 1	=	11327654321
FUDGE FACTOR	=	00
MODULUS	=	11

OR

Where the account number fails the above CDV routine AND the account number is less than 10 digits and the remainder is not equal to 0, add 6 to the least significant digit of the account number, ignoring any carry forward and repeat modulus 11 CDV routine:-

WEIGHTING DIGITS 11 THRU 1 = 11327654321
FUDGE FACTOR = 00
MODULUS = 11

OR

Where the account number fails the above CDV routine, apply the following CDV routine:-

WEIGHTING DIGITS 11 THRU 1 = 14329874321
FUDGE FACTOR = 00
MODULUS = 10

**Exception Code (g) Nedbank (ex Permanent Bank) / (Peoples now Peoples Mortgage Limited),
(13 digit Bond Account Numbers)**

Position fields by ignoring the least significant 5 digits (only when performing CDV calculation); *ie* construct an 8-digit account number.

Apply the following CDV routine:-

WEIGHTING DIGITS 11 THRU 1 = 1 1 1 T N J H D 7 3 1
ie = 1 1 1 29 23 19 17 13 7 3 1
FUDGE FACTOR = 00
MODULUS = 11

If the remainder is not equal to 0 and the two least significant digits of the 8-digit account number (digits 1 & 2) are the same, then apply the following CDV routine:-

WEIGHTING DIGITS 11 THRU 1 = 1 1 1 T N J H D 7 3 0
ie = 1 1 1 29 23 19 17 13 7 3 0
FUDGE FACTOR = 10
MODULUS = 11

Exception Code (h) Nedbank Bond Accounts

EXAMPLE of a Nedbank Bond Account

No. of digits = 13 = 13 12 11 10 9 8 7 6 5 4 3 2 1
Nedbank Bond Account No. = 8 0 0 9 7 1 6 5 0 0 1 0 1
 ↓ ↓
 most least
 significant digit significant digit

Position fields by ignoring the least significant 5 digits (only when performing the CDV calculation); *ie* construct an 8-digit CDV routine:-

Note: Account number should be right justified and zero filled when applying the CDV.

WEIGHTING DIGITS 11 THRU 1 = 1 1 1 T N J H D 7 3 1
ie = 1 1 1 29 23 19 17 13 7 3 1
FUDGE FACTOR = 00
MODULUS = 11

If the remainder is not equal to 0 and the two least significant digits of the 8-digit account number (digits 1 & 2) are the same, then apply the following CDV routine:-

WEIGHTING DIGITS 11 THRU 1 = 1 1 1 T N J H D 7 3 0
ie = 1 1 1 29 23 19 17 13 7 3 0
FUDGE FACTOR = 10
MODULUS = 11

Note: After the CDV has been successfully calculated, only the 11 most significant digits of the account number, *ie* digits 13 THRU 3, must be loaded in Field 7, ignoring digits 2 & 1, (REFER TO EXAMPLE ABOVE). The Account number remains in FIELD 7 OF THE STANDARD TRANSACTION RECORD; Refer [Pages 3-8](#) and [3-9](#), with BRANCH CODE 170-305 (BOND ACCOUNTS).

Exception Code (i) Standard Lesotho Bank Limited and Standard Bank Swaziland (13-Digit Account Number to be modified to 11-Digits)

Utilise the 11 rightmost digits of the 13-digit account numbers. In the constructed 11 digit account number, the most significant digit (digit 11) of the account number must be either a '2' or a '4'. Zero account numbers are not allowed.

EXAMPLE of a 13-digit account number

No. of digits = 13 =		13	12	11	10	9	8	7	6	5	4	3	2	1
Standard Bank Swaziland =		6	1	4		0	9	7	1	6	5	0	0	1
Standard Bank Lesotho														
Lesotho Bank														
				most									least	
				significant digit									significant digit	

Current Accounts

ACCT TYPE	=	1
ACCT INDIC	=	2
WEIGHTING DIGITS 11 THRU 1	=	0000000000
FUDGE FACTOR	=	00
MODULUS	=	00

Savings accounts

ACCT TYPE	=	2
ACCT INDIC	=	2
WEIGHTING DIGITS 11 THRU 1	=	0000000000
FUDGE FACTOR	=	00
MODULUS	=	00

NOTE ON EXCEPTION CODES:-

1. **FOR** Mercantile Bank - Exception Code (b)
an additional check must be performed ONLY after the account number has failed the CDV ROUTINE.
2. **FOR** HBZ Bank Limited - Exception Code (d)
an additional check must be performed irrespective of CDV validation on page E-7 i.e. successful or unsuccessful
3. **FOR** Nedbank Limited Incorp. BoE Bank - Exception Code (e)
Nedbank Limited Incorp. PEP Bank - Exception Code (e)
an additional check must be performed ONLY after the Account number has passed the CDV ROUTINE successfully.
4. **FOR** ABSA (All Divisions) - Exception Code (f)
Perform the first CDV appearing on Pages E-6. If the result is successful, then ignore the EXCEPTION CODE, as this indicates that the account number is valid. The exception code is only performed when the initial CDV check fails.
5. **FOR** Nedbank (ex Permanent Bank) (13 Digit Bond Accounts) - Exception Code (g)
Peoples Bank (Now Peoples Mortgage Limited) (13 Digit Bond Accounts) - Exception Code (g)
Nedbank Bond Accounts - Exception Code (h)
There is no CDV loaded on pages E-6 "CDV PARAMETER TABLE", as the EXCEPTION CODE is the CDV ROUTINE that must be applied.
6. **FOR** Standard Bank Swaziland, Standard Lesotho Bank Limited - Exception Code (i)

13 digit account numbers must be reduced to 11 digits by utilising the 11 right most digits, ensuring that in the 11digit account number, digit 11, the most significant digit is either "2" or "4".

**ACCOUNT INDICATION TABLE
 (ACCT INDIC)**

		ACCT INDIC	0	1	2	3	4
C O M P U T E R I S E D	B R A N C H E S	ACCOUNT NO. REQUIRED	NO	YES	YES	YES	YES
		ZERO ACCOUNT NO. ALLOWED	YES	YES	NO	NO	NO
		CDV	NO	YES	YES	YES	YES

*Should no account Number be available, the field must be zero filled.

Debits to Savings Accounts are allowed by the following banking institutions only:

AMALGAMATED BANKS OF SOUTH AFRICA (ABSA) (No debits are allowed to the following savings accounts:
 including MEEG BANK Call, Money Market, Notice, Target Savings, Special Savings
 ITHALA (ABSA)
 BANK WINDHOEK
 CAPITEC BANK
 NEDBANK NAMIBIA LIMITED
 FIRSTRAND BANK (No debits are allowed to Book-base accounts and Contractual Savings Products).
 HBZ BANK
 MERCANTILE BANK - Debits are now allowed to special savings accounts at branch code range 450-236 to 450-237
 NEDBANK LIMITED
INCLUDING: NEDBANK LESOTHO, NEDBANK SWAZILAND, OLD MUTUAL BANK (ex PERMANENT BANK),
 NEDBANK LIMITED INCORP. BoE BANK, and PEOPLES MORTGAGE LIMITED
 - NEDBANK LIMITED INCORP. FBC
 - NEDBANK LIMITED INCORP. PEP BANK
 - NEDBANK LIMITED INCORP. NBS
 - NEDBANK NAMIBIA LIMITED
 POSTBANK A DIVISION OF SOUTH AFRICAN POST OFFICE LIMITED
 RENNIES BANK
 STANDARD CHARTERED BANK
 TEBA BANK
 THE SOUTH AFRICAN BANK OF ATHENS
 THE STANDARD BANK OF SOUTH AFRICA (Only debits to PlusPlan accounts which are linked to Autobank cards will be accepted.)
 - STANDARD LESOTHO BANK LIMITED
 - STANDARD BANK SWAZILAND

CDV PARAMETER TABLE

BANK	BRANCH CODE RANGE	ACCT TYPE	ACCT INDIC	WEIGHTING DIGITS 11 THRU 1	FUDGE FACTOR	MOD-ULUS	EXCEP CODE	
STANDARD BANK S.A. STANDARD BANK S.A. STANDARD LESOTHO BANK LTD STANDARD BANK SWAZILAND	000-000 - 060-066 063-968 - 099-999 060-067 – 063-967 660-000 - 669-999	1,2,3 1,2,3 1,2 1,2	4 4 2 2	11987654321 11987654321 00000000000 00000000000	00 00 00 00	11 11 00 00	- - i i	
<p>Note: the preferred default branch code to utilise for South Africa = 051-001 Note: the preferred default branch code to utilise for Namibia = 087-373</p>								
NEDBANK LIMITED Included in this range are:	100-000 - 199-999	1 2,3	4 4	11987654321 11987654321	09 18	11 11	- -	
NEDBANK OLD MUTUAL BANK PEOPLES BANK (Now NEDBANK LIMITED NEDBANK NAMIBIA LIMITED	<p>Refer also to the “NEW” Nedbank Namibia Clearing Code Range 461-000 to 461-999 displayed on Page E-7 of this Manual</p>							
EXCEPTIONS FOR NEDBANK BRANCH CODE RANGE								
• NEDBANK BOND ACCOUNTS	170-305 - 170-305	1	4	Refer Page E-3 Exception Code (h)	00	11	h	
• NEDBANK (ex PERMANENT BANK and PEOPLES BANK - Now PEOPLES MORTGAGE LIMITED	760-005 - 760-005	4,6	4	Refer Page E-3 Except. Code (g)	00	11	g	
<p>For 13-digit Bond and Subscription Share Accounts use this code</p>								
NEDBANK SWAZILAND	360-000 - 360-999	1,2	0	00000000000	00	00	-	
NEDBANK LESOTHO	390-000 - 390-999	1,2	0	00000000000	00	00	-	
FIRSTRAND BANK Bond and Personal Loan Accounts Deposit Accounts	200-000 - 299-999 250-006 – 250-006	1,2 1 3	4 4 4	12121212121 DA987654321 12121212121	00 00 00	10 11 10	- - -	
<p>Note: The preferred default branch codes to utilise for FNB are as follows: South Africa = 250-655 Namibia = 282-672 Botswana = 283-767 Swaziland = 287-364 Lesotho = 280-061 Botswana & Swaziland are for FNB to FNB internal payments.</p>								
ABSA BANK - MEEG BANK	300-000 - 349-999 420-000 - 429-999 500-000 - 569-999 630-000 - 659-999 634-nnn - 634-nnn	1,2,3,4,6	4	For CDV Routine, please refer to Exception Code f				
<p>Note: the preferred default branch code to utilise for the ABSA Group = 632-005</p>								
CITIBANK N.A.	350-000 - 350-999	1	0	00000000000	00	00	-	
NEDBANK LTD INCORP. PEP BANK	400-000 - 400-999	1,2,3,4	4	18765432100	02	11	e	
S.A. BANKS OF ATHENS	410-000 – 419-999	1,2	4	11987654321	00	11	-	
TEBA BANK	431-000 – 431-979 431-980 – 431-999	1,2,3 1,2,3	4 4	19876543211 27654321000	00 00	11 11	- -	

NOTE ON WEIGHTINGS: 1=CURRENT ACCOUNTS, 2=SAVINGS ACCOUNTS, 3=TRANSMISSION ACCOUNTS,
 4=BOND ACCOUNTS, 6=SUBSCRIPTION SHARE ACCOUNTS.
 * A = 10 D = 13 H = 17 J = 19 N = 23 T = 29

CDV PARAMETER TABLE (cont.)

	BRANCH CODE RANGE	ACCT TYPE	ACCT INDIC	WEIGHTING DIGITS 11 THRU 1	FUDGE FACTOR	MOD-ULUS	EXCEP CODE
AFRICAN BANK LIMITED	430-000 – 430-999	2	4	12121212121	00	10	-
NEDBANK LTD. INCORP. BoE BANK	440-000 - 449-999	1,2,3,4	4	18765432100	00	11	e
MERCANTILE BANK	450-000 - 450-235	1,2	4	1A987654321	00	11	b
	450-236 - 450-237	2	4	00000000000	00	00	-
	450-238 - 459-999	1,2	4	1A987654321	00	11	b
POST BANK "SAPO"	460-000 - 460-999	2	4	42184218421	00	10	-
NEDBANK NAMIBIA "NEW"	461-000 - 461-999	1,2,4	4	54327654321	00	11	-
RENNIES BANK	462-000 - 462-999	1,2,3	4	27654321000	00	11	-
CAPITEC BANK	470-000 - 470-999	1,2,3,4,6	4	21987654321	00	11	-
BANK WINDHOEK	480-000 - 489-999	1,2,3	4	00000000000	00	00	-
MTN BANKING (STANDARD BANK)	490-000 - 490-999	3	4	13971379131	00	10	-
MTN Banking (Standard Bank) will operate under branch code 490-991. Account Number Length = 11. 11th most significant digit of the account number must always be a Zero.							
HBZ BANK	570-000 - 570-999	1,2	4	00000137131	00	11	d
INVESTEC BANK	580-000 - 580-999	1,2,4	4	000NJHD7531	00	11	-
HABIB OVERSEAS BANK	700-000 - 709-999	1	4	00000000000	00	00	-
NEDBANK LTD. INC. NBS	720-000 - 729-999	2,3,4,6	4	14329874321	00	10	-
STANDARD CHARTERED BANK	730-000 - 730-044	1,2,3,4,6	4	27654321000	00	11	-
	730-046 - 730-999	1,2,3,4,6	4	27654321000	00	11	-
ABN ♦ AMRO BANK	740-000 - 740-999	1	4	00987654321	00	11	-
ITHALA (ABSA)	750-000 - 759-999	2,3,4,6	4	12121212121	00	10	-
NEDBANK (ex PERMANENT BANK) and PEOPLES BANK now PEOPLES MORTGAGE LIMITED	760-000 - 769-999	4	4	Refer page E-3 Exception Code (g)	00	11	g
OLD MUTUAL BANK (ex PERMANENT BANK - CURRENT ACCOUNTS)	147-105 - 147-105 (Nedbank)	1	4	REFER TO NEDBANK - PAGE E-6 11987654321	09	11	-
NEDBANK INCORP. FBC	780-000 - 789-999	2,3,4,6	4	13579135791	00	10	-
UNIBANK #	790-000 - 799-999	2,3,4	4	00000000000	00	00	-
S A RESERVE BANK	900-000 - 999-999	1	4	11187654321	00	11	-
Note: no debits to SARB accounts at all							

NOTE ON BANKS: * MEEG BANK - This bank's branches are embedded randomly within the above ABSA range.
 Alpha search on Branch Name "MEEG" to identify.
 # UNIBANK - ACCT INDIC is 4, however, no CDV is performed but "0" account numbers disallowed

NOTE ON WEIGHTINGS: 1=CURRENT ACCOUNTS, 2=SAVINGS ACCOUNTS, 3=TRANSMISSION ACCOUNTS, 4=BOND ACCOUNTS, 6=SUBSCRIPTION SHARE ACCOUNTS.
 * A = 10 D = 13 H = 17 J = 19 N = 23 T = 29

ACCOUNT TYPE RECOGNITION

The Table is based on regarding the least significant digit of the account number as digit number 1. For reference purposes only.
(The BANKSERV system will not validate the relationship between ACCOUNT NUMBER and ACCOUNT TYPE).
N.B.The ACCOUNT TYPE itself is important and will be validated by the BANKSERV system against specific bank criteria as detailed.

BANK	CURRENT (CHEQUE) ACCOUNT ACCOUNT TYPE 1		SAVINGS ACCOUNT ACCOUNT TYPE 2		TRANSMISSION ACCOUNT ACCOUNT TYPE 3	
	ACCOUNT NUMBER	NO. OF DIGITS	ACCOUNT NUMBER	NO. OF DIGITS	ACCOUNT NUMBER	NO. OF DIGITS
African Bank Ltd	N / A	N / A	No Identification Possible.	11	N / A	N / A
ABN♦Amro Bank	No Identification Possible Reduce to 11 digits by dropping the 12 th digit (leftmost).	11	N/A	N/A	N/A	N/A
ABSA Bank	No Identification Possible	8,9,10 or 11	No Identification Possible	8,9,10 or 11	No Identification Possible	8.9.10 or 11
Bank Windhoek	No Identification Possible	10	No Identification Possible	9 or 10	No Identification Possible	9
Nedbank Ltd. Incorp. BoE Bank	No Identification Possible	10	No Identification Possible.	10	No Identification Possible	10
Capitec Bank	No Identification Possible	10	No Identification Possible. Use for Savings and Loan Accounts	10	No Identification Possible	10
Citibank	No Identification Possible	10	N/A	N/A	N/A	11
Nedbank Incorp.FBC	N/A	N/A	No identification Possible	11	No Identification Possible	11
FirstRand Bank	New Current Accounts For Life No Identification Possible	11	New Savings Account for Life No Identification Possible	11	N/A	N/A
	Bond Accounts 13-Digit Account Number Account Number Range 300000000000-399999999999 Drop Digits 12 & 11 to 11 Digits Eg 30000000000-39999999999	11				
	Personal Loan Accounts 13-Digit Account Number Account Number Range 400000000000-499999999999 Drop Digits 12 & 11 to 11 Digits Eg 40000000000-49999999999					
	Deposit Accounts Branch 250-006 only				No identification possible	10
Habib Overseas Bank	Account Number Range 1111100000 –1188580000	10	N/A	N/A	N/A	N/A

ACCOUNT TYPE RECOGNITION

The Table is based on regarding the least significant digit of the account number as digit number 1. For reference purposes only.
 (The BANKSERV system will not validate the relationship between ACCOUNT NUMBER and ACCOUNT TYPE).
 N.B.The ACCOUNT TYPE itself is important and will be validated by the BANKSERV system against specific bank criteria as detailed.

BOND ACCOUNT ACCOUNT TYPE 4		SUBSCRIPTION SHARE ACCOUNT ACCOUNT TYPE 6			
ACCOUNT NUMBER	NO. OF DIGITS	ACCOUNT NUMBER	NO. OF DIGITS		
N/A	N/A	N/A	N/A		
N/A	11	N/A	11		
No Identification Possible	8,9,10 or 11	No Identification Possible	8,9,10 or 11		
N/A	N/A	N/A	N/A		
No Identification Possible	10	N/A	N/A		
No Identification Possible	10	No Identification Possible	10		
N/A	N/A	N/A	N/A		
No Identification Possible	11	No Identification Possible	8		
Bond Accounts for this Institution operate as Account Type 1 – (Current Accounts)	N/A	N/A	N/A		
N/A	N/A	N/A	N/A		

ACCOUNT TYPE RECOGNITION

The Table is based on regarding the least significant digit of the account number as digit number 1. For reference purposes only.
(The BANKSERV system will not validate the relationship between ACCOUNT NUMBER and ACCOUNT TYPE).
N.B.The ACCOUNT TYPE itself is important and will be validated by the BANKSERV system against specific bank criteria as detailed.

BANK	CURRENT (CHEQUE) ACCOUNT ACCOUNT TYPE 1		SAVINGS ACCOUNT ACCOUNT TYPE 2		TRANSMISSION ACCOUNT ACCOUNT TYPE 3	
	ACCOUNT NUMBER	NO. OF DIGITS	ACCOUNT NUMBER	NO. OF DIGITS	ACCOUNT NUMBER	NO. OF DIGITS
HBZ Bank	(Old Current Accounts) No Identification Possible	8 or 10	(Old Savings Accounts) No Identification Possible	8 or 10	N/A	N/A
	(New Current Accounts) 11 th digit = 1 10 th digit = 1	11	(New Savings Accounts) 11 th digit = 1 10 th digit = 3	11	N/A	N/A
Investec Bank	No Identification Possible	11	No Identification Possible	11	N/A	N/A
Ithala (ABSA)	No Current Accounts	N/A	No Identification Possible	8	No Identification Possible	8
Meeg Bank	No Identification Possible	8,9,10 or 11	No Identification Possible	8,9,10 or 11	No Identification Possible	8,9,10 or 11
Mercantile Bank	10th Digit = 1 through 9 9th Digit = 0 through 9 Bond Accounts	10	10th digit = 1 9th digit = 5	10	N/A	N/A
	10th Digit = 2 9th Digit = 5 or 6	10	No Identification Possible N.B. Only applicable to Branch Code range 450-236 to 450-237	10		
Nedbank Ltd. Incorp. NBS	No Current Accounts	N/A	No Identification Possible	10	No Identification Possible	10
Nedbank Lesotho	No Identification Possible	11	No identification Possible	11	N/A	N/A
Nedbank Namibia	“OLD” 10th Digit = 1	10	“OLD” 10th Digit = 2	10	“OLD” 10th Digit = 2	10
	“NEW” - 11th Digit = 1 10 th Digit = 1	11	“NEW” - 11 th Digit = 1 10 th Digit = 2	11	“NEW” - N/A	N/A
Nedbank Swaziland	No Identification Possible	11	No Identification Possible	11	N/A	N/A
Nedbank	10th Digit = 1	10	10 th Digit = 2	10	10th Digit = 2	10
	Bond Accounts Account number range 8000000000001-8999999999901 Reduce to 11 digits by dropping Digits 1 & 2	11				
Nedbank Ltd Incorp. Peoples Bank	N/A	N/A	10th Digit = 2 Peoples Bank 10-Digit Savings Accounts operate on the Nedbank Branch Code Range and use the Nedbank CDV routine.	10	10th Digit = 2 Peoples Bank 10-Digit Transmission Accounts operate on the Nedbank Branch Code Range and use the Nedbank Bank CDV routine.	10
Nedbank Ltd. Incorp. PEP Bank	No Identification Possible	10	No Identification Possible	10	No Identification Possible	10
Old Mutual Bank (ex Permanent Bank	10th Digit = 1 Old Mutual Bank 10-Digit Current Accounts operate on the Nedbank Branch Code Range and use the Nedbank CDV routine.	10	10th Digit = 2 Old Mutual Bank 10-Digit Savings Accounts operate on the Nedbank Branch Code Range and use the Nedbank CDV routine.	10	10th Digit = 2 Old Mutual Bank 10-Digit Transmission Accounts operate on the Nedbank Branch Code Range and use the Nedbank Bank CDV routine.	10

ACCOUNT TYPE RECOGNITION

The Table is based on regarding the least significant digit of the account number as digit number 1. For reference purposes only.
 (The BANKSERV system will not validate the relationship between ACCOUNT NUMBER and ACCOUNT TYPE).
 N.B.The ACCOUNT TYPE itself is important and will be validated by the BANKSERV system against specific bank criteria as detailed.

BOND ACCOUNT ACCOUNT TYPE 4		SUBSCRIPTION SHARE ACCOUNT ACCOUNT TYPE 6			
ACCOUNT NUMBER	NO. OF DIGITS	ACCOUNT NUMBER	NO. OF DIGITS		
N/A	N/A	N/A	N/A		
No Identification Possible	11	No Subscription Meeg Accounts	N/A		
N/A	N/A	N/A	N/A		
No Identification Possible	8,9,10 or 11	No Identification Possible	8,9,10 or 11		
Bond Accounts for this Institution operate as Account Type 1 - (Current Accounts)	N/A	N/A	N/A		
No Identification Possible	10	No Identification Possible	10		
N/A	N/A	N/A	N/A		
"OLD" – N/A "NEW" – 11 th Digit = 1 10 th Digit = 3	N/A 11	N/A	N/A		
N/A	N/A	N/A	N/A		
Bond Accounts for this Institution operate as Account Type 1 – (Current Accounts)	N/A	N/A	N/A		
No Identification Possible	13	No Identification Possible	13		
No Identification Possible	10	N/A	N/A		
No Identification Possible	13	No Identification Possible	13		

ACCOUNT TYPE RECOGNITION

The Table is based on regarding the least significant digit of the account number as digit number 1. For reference purposes only.
(The BANKSERV system will not validate the relationship between ACCOUNT NUMBER and ACCOUNT TYPE).
N.B.The ACCOUNT TYPE itself is important and will be validated by the BANKSERV system against specific bank criteria as detailed.

BANK	CURRENT (CHEQUE) ACCOUNT ACCOUNT TYPE 1		SAVINGS ACCOUNT ACCOUNT TYPE 2		TRANSMISSION ACCOUNT ACCOUNT TYPE 3	
	ACCOUNT NUMBER	NO. OF DIGITS	ACCOUNT NUMBER	NO. OF DIGITS	ACCOUNT NUMBER	NO. OF DIGITS
Rennies Bank	No Identification Possible	11	No Identification Possible	11	No Identification Possible	11
S A Bank of Athens	OLD Account Number Range 2000000-2120000	7	Account Number Range 2400000-2599999	7	N/A	N/A
	No validation is required on the OLD Account Number range - Manual Check Only					
	NEW Account Number for Life No Identification Possible. Perform CDV on Page E-6	11	NEW Account Number for Life No Identification Possible. Perform CDV on Page E-6	11		
Postbank A Division of S A Post Office	N/A	N/A	No Identification Possible Note: All EFT transactions to SA Post Office; ensure Client/Employee produce authentic SA Post Office document which must display branch code 460-005 with an 11- digit Account Number	11	N/A	N/A
S A Reserve Bank	No Identification Possible	11	N/A	N/A	N/A	N/A
Standard Bank	Account number range 000000000-999999999	9	Account number range 000000000-999999999 (Note: Only debits to Plus Plan accounts which are linked to Autobank cards will be accepted)	9	Account number range 000000000-999999999	9
MTN Banking (Standard Bank)	N/A	N/A	N/A	N/A	No Identification Possible - Account Number range 0000000000-0999999999 Note: 11th digit must always be a zero	11
Standard Lesotho Bank Ltd.	11 th digit = 2 or 4	11	11 th digit = 2 or 4	11	N/A	N/A
Standard Bank Swaziland	11 th digit = 2 or 4	11	11 th digit = 2 or 4	11	N/A	N/A
UniBank	N/A	N/A	No Identification Possible	10	No Identification Possible 16-Digit Accounts; reduce to 11 by dropping the 5 most significant digits; i.e. only the last 11 digits must be utilised reading from right to left.	11
Standard Chartered Bank	No Identification Possible	11	No Identification Possible	11	No Identification Possible	11
Teba Bank	No Identification Possible	11	No Identification Possible	11	No Identification Possible	11

ACCOUNT TYPE RECOGNITION

The Table is based on regarding the least significant digit of the account number as digit number 1. For reference purposes only.
 (The BANKSERV system will not validate the relationship between ACCOUNT NUMBER and ACCOUNT TYPE).
 N.B.The ACCOUNT TYPE itself is important and will be validated by the BANKSERV system against specific bank criteria as detailed.

BOND ACCOUNT ACCOUNT TYPE 4		SUBSCRIPTION SHARE ACCOUNT ACCOUNT TYPE 6			
ACCOUNT NUMBER	NO. OF DIGITS	ACCOUNT NUMBER	NO. OF DIGITS		
N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A		
Bond Accounts for this Institution operate as Account Type 1 – (Current Accounts)	N/A	N/A	N/A		
N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A		
No Identification Possible 15-Digit Loan Accounts - Reduce to 11 digits by dropping the 4 most significant digits; i.e. only the last 11 digits must be utilised reading from right to left.	11	N/A	N/A		
No Identification Possible	11	No Identification Possible	11		
N/A	N/A	N/A	N/A		