

TruOps Telecom Routing Administration (TRA)

TPM™ Data Source

Data Set / File Specifications

iconectiv System Documentation
BD-TRA-TPM-SPECS
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Document Availability:

This document contains data set / file specifications for the TPM™ Data Source as provided via web download, and transmitted via electronic data transfer, as of the TPM product date indicated above. File layouts are those associated with the fixed formatted data files provided in the TPM. For further information, call the TruOps Telecom Routing Administration (TRA) Customer Care Center on 866-NPA-NXXS (i.e. 866-672-6997) or 732-699-6700. This document may also be downloaded at www.trainfo.com (documents).

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TPM – Flat File Information - History

The following identifies previous issues of these specifications in this format and identifies pertinent changes associated with each issuance of this document.

Note that the “issue date” need not be the same as the “effective date”. Since specifications often need to be issued with sufficient lead time to permit review, it is possible that cosmetic changes, error corrections, and/or possible pertinent changes may occur before a “final” version can be solidified. New issues of the document are also posted for formatting, rebranding, etc. with no modifications to the LERG itself, resulting in no change to the effective date.

If you are concerned as to whether you have the latest version of this document, please call TRA on 866-NPA-NXXS (i.e. 866-672-6997) or 732-699-6700 or check www.trainfo.com, where you can also download copies of these specifications.

Issue Date	Effective Date	Changes
	07/01/95	Initial specs in this format
	12/15/95	<ul style="list-style-type: none"> - Inclusion of "activity" and "master" files into a single TPM product - Updates to Glossary (CO TYPE, NXXTYPE) and various clarifications. - Introduction of SCAN as a viewer for diskette data. - Revisions to naming of supporting diskette files (e.g. "read me").
	03/15/96	<ul style="list-style-type: none"> - COUNTREC.EXE added to diskette.
	10/15/97	<p>No structural file changes - supports the incorporation of the VHCD and TPM (previously separate outputs)</p> <ul style="list-style-type: none"> - The VHCD BCR MASTER .NPANXX NDM Dataset becomes BCR.TPM.MASTER - The VHCD NXXMSTR.DAT diskette file becomes TPM.DAT - The VHCD BCR.ACTVTY.NPANXX NDM Dataset becomes BCR.TPM.ACTVTY - The VHCD NXXACTVY.DAT diskette file becomes TPMACT.DAT - Glossary/specs files added to diskette and tape
	04/15/98	<ul style="list-style-type: none"> - OCN file updated to include CO TYPE, Bill to RAO, Send to RAO - TPMEND file added to note the product date and to provide a listing of file record counts for reconciliation purposes
	01/15/99	<ul style="list-style-type: none"> - Inclusion of Portability Indicator on TPM, TPMACT, and MINORVH files - Addition of PLNAME file - Inclusion of files associated with CD ROM version
	07/15/99	<ul style="list-style-type: none"> - Inclusion of RAO file
	07/15/00	<ul style="list-style-type: none"> - Inclusion of Pooling Indicator on TPM, TPMACT, and MINORVH files - Addition of TBP file
	01/15/03	<ul style="list-style-type: none"> - Removal of Special Rating Indicator and “Actual NPA for Non-Mexican "Other Place"” NPA fields from TPM and MINORVH files - Expansion of fields in TBP file to those in TPM.DAT; addition of Rate Center name information and RC file; addition of AOCN data field in TBP file - Removal of diskette media notations to support earlier discontinuance
	10/15/03	<ul style="list-style-type: none"> - Addition of TBPACT.DAT - Addition of TPMAPP02.MDB (CD only)

Issue Date	Effective Date	Changes
	01/15/04	<ul style="list-style-type: none"> - Replacement of TPM.DAT and TPMACT.DAT with TBP.DAT and TBPACT.DAT formats (i.e. TPM.DAT and TPMACT.DAT file 'names' continue, TBP file 'names' do not; former TBP files are now entitled the TPM files) - MINORVH.DAT reformatted to correlate to basic TBP.DAT format - Note: Effective 7/15/04 the magnetic tape version of the TPM was discontinued
	06/01/05*	TPMDATA.MDB updated from Access 97 to Access 2000; TPMAP97.MDB removed; TPMAP03.MDB added. * 03/01/05 re-issue.
	10/15/06	Mexican data provided under a revised format in a newly created INTLMX.DAT file
	07/15/09*	TPMAPP07.ACCDB (Microsoft Access 2007 front-end user interface) added. * 10/16/06 re-issue.
01/01/19	07/15/09	No TPM Data Source file structure or data content changes have been made. Document updated to remove reference to the CD ROM delivery which is no longer offered and to add iconectiv TruOps product branding.

TPM - Dataset and File Record Layouts – 10/15/06

Product Description

The TruOps Telecom Routing Administration (TRA) on 866-NPA-NXX (i.e. 866-672-6997) or 732-699-6700, provides the TPM™ Data Source in support of systems used in rating telephone calls and other processes that involve the NPA NXX data it contains. The TPM is provided monthly. The files are made available via web download and include a Microsoft Access® database version of the TPM data. Electronic transmission of data files is available under certain conditions.

File Descriptions

This document provides TPM Data Source record layouts. Brief field descriptions and a listing of coded values used in certain fields are provided in Appendix A-1 (GLOSSARY file). The definitions and values are subject to clarification and other changes on an ongoing basis.

The Last Change dates in the file description headers in this document refer to when the file was last structurally changed or first appeared. Dates of 1990 are used as defaults since tracking did not occur prior to that date. Structural changes would include the addition or removal of fields either physically, or through redefinition of filler space as well as the redefinition of a field. Wording changes to clarify existing fields will not generate a "Last Change" date. Please note the following:

- Appendix A-1 to this document (GLOSSARY file), available at www.trainfo.com (documents) provides a brief description of most fields, as well as a listing of specific field values (or other qualifiers) when reasonable and applicable.
- The TPM contains both a "primary" (master) file of NPA NXX (and BLOCK ID) data (TPM.DAT) as well as a subset of the primary file, called an "activity" file (TPMACT.DAT) of NPA NXX (and BLOCK ID) data. The primary and respective activity files are structured identically. All data records found in the "activity" file are also found in the "primary" file.
- Data in the TPM.DAT and TPMACT.DAT files are provided on a BLOCK ID basis, per NPA NXX. The CO Code Holder company and associated data is represented as BLOCK ID "A". In addition, where an NPA NXX is further broken down into Thousands Blocks, the TPM files contain information for records identified with BLOCK ID = 0-9 (note that not all 10 blocks may be assigned and thus a record for each of the potential 10 blocks under an NPA NXX may not be provided).
- BCR.MINOR.VH (file MINORVH.DAT) is structured identical to the TPM.DAT "master" file with the exception that the "minor" V&H fields have been appended to the end of the record. Only those records containing nonzero minor V&H data are included in this dataset / file. This file should be considered as an "extension" of the data in the "master", not as different records from the "master". Note that unless the change has to do directly with minor V&Hs, the change code in this file should be the same as that in the "master" file.
- Products are shipped (and should be received) approximately 2-3 weeks before the "product" date.

General Information

Dataset (NDM) Name (in sequence order)	Dataset BLKSIZE	Dataset LRECL	Web Filename	General Description
BCR.COPY.RIGHT	4000	80	COPYRGHT.DAT	Copyright Notice
BCR.TPM.MASTER	6050	110	TPM.DAT	NPA NXX BLOCK Complete data
BCR.TPM.ACTVTY	6050	110	TPMACT.DAT	NPA NXX BLOCK Activity data
BCR.NUMBER.SCC	3000	30	SCC.DAT	Special Calling Cards
BCR.NUMBER.OCN	4200	42	OCN.DAT	Operating Company Numbers
BCR.NUMBER.CIID	3840	256	CIID.DAT	Card Issuer IDentifier data
BCR.MINOR.VH	6000	120	MINORVH.DAT	Minor V&H data
BCR.PLNAME.DAT	6208	64	PLNAME.DAT	Place Name 10/50 mapping
BCR.NUMBER.RAO	6000	500	RAO.DAT	RAO Directory
BCR.RCNAME.DAT	6208	64	RCNAME.DAT	RC Name 10/50 mapping
BCR.INTLMX.DAT	6156	324	INTLMX.DAT	International (Mexico) data
BCR.GLOSSARY.TXT	4000	80	GLOSSARY.TXT	References GLOSSARY.DOC
BCR.SPECSTP.TXT	4000	80	SPECSTP.TXT	References SPECSTP.DOC
BCR.TPMEND.TXT	4000	80	TPMEND.TXT	Production date w/file record counts
The following are only on the Web:				
-	-	-	READMETP.TXT	High level information
-	-	-	READ_ME.EXE	A means to view "read me(s)"
-	-	-	COUNTREC.EXE	Counts lines in a file
-	-	-	GLOSSARY.DOC	WORD® version of Glossary
-	-	-	SPECSTP.DOC	WORD® version of SPECSTP

File Layouts

❖ **Note:** The following are DATA file layouts, TXT files are not listed below.

NDM Dataset:	BCR.COPY.RIGHT	File Sequence:	1	Description:	Copyright Notice
				Last Change:	1990

FIELD DESCRIPTION	LENGTH	POSITION
1. Copyright and Notice	80	1-80

NDM Dataset:	BCR.TPM.MASTER	File Sequence:	2	Description:	NXX NPA BLOCK ID All records
				Last Change:	1/15/04

FIELD DESCRIPTION	LENGTH	POSITION
1. NPA	3	1-3
2. NXX	3	4-6
3. BLOCK ID	1	7
4. filler	1	8
5. Range	8	9-16
6. NXXTYPE	2	17-18
7. filler	1	19
8. Effdate of Last Change (mmddyy)	6	20-25
9. Change Code	1	26
10. filler	1	27
11. Operating Company Number (OCN)	4	28-31
12. Administrative Operating Company Number (AOCN)	4	32-35
13. Company Code	2	36-37
14. Company Type	1	38
15. Bill to RAO	3	39-41
16. Send to RAO	3	42-44
17. filler	1	45
18. Major Vertical Coordinate	5	46-50
19. Major Horizontal Coordinate	5	51-55
20. Rate Center LATA	3	56-58
21. Rate Center LATA Subzone	2	59-60
22. Rate Center Name Abbreviation	10	61-70
23. Rate Center Type	1	71
24. Place Name (or Service Name)	10	72-81
25. State, Province, or Country Abbreviation	2	82-83
26. filler	1	84
27. Time Zone	1	85
28. Daylight Savings Observed Indicator (0=N, 1=Y)	1	86
29. Portability Indicator (0=N, 1=Y)	1	87
30. Thousands Block Pooling Indicator	1	88
31. IDDD Indicator (0=N, 1=Y)	1	89
32. Dialable Indicator (DIND) (0=N, 1=Y)	1	90
33. Other Line Rate Step	2	91-92
34. Point Identification	1	93
35. Effective Date of Assignment	6	94-99
36. filler	11	100-110

❖ **Notes:**

1. The “complete” dataset / file (TPM.DAT) is considered the main component of the TPM product. The “activity” dataset / file (TPMACT.DAT) usually contains a few thousand records.
2. The TPM.DAT dataset / file has *a//* NPA NXX BLOCK ID data (including all activity records). Records with a BLOCK ID value of “A” represent the CO Code Holder assigned to the NXX (e.g. for default routing purposes). Numeric blocks (0-9) represent assignees at the Block (1000 lines level). Only assigned blocks are listed. Often, the data associated with the “A” record also exists for at least one numeric block within the NXX.

NDM Dataset:	BCR.TPM.ACTVTY	File Sequence:	3	Description:	NPA NXX BLOCK ID Activity records
				Last Change:	1/15/04

The TPMACT.DAT dataset / file is structured identical to the master (BCR.TPM.MASTER / TPM.DAT). The activity dataset usually contains a few thousand records. With the exception of records containing a change code of "A", this file identifies only those records in the TPM.DAT file that have a change code. Change codes indicate that there is "activity" associated with the record since the previous month's product.

NDM Dataset:	BCR.NUMBER.SCC	File Sequence:	4	Description:	Special Calling Cards
				Last Change:	1990

	FIELD DESCRIPTION	LENGTH	POSITION
1.	Bill to RAO	3	1-3
2.	0/1XX (SCC Code within RAO)	3	4-6
3.	Send to RAO	3	7-9
4.	NPA	3	10-12
5.	Change Code	1	13
6.	Effdate of Last Change (mmddy)	6	14-19
7.	Operating Company Number (OCN)	4	20-23
8.	filler	7	24-30

NDM Dataset:	BCR.NUMBER.OCN	File Sequence:	5	Description:	OCN Listing
				Last Change:	7/15/00

	FIELD DESCRIPTION	LENGTH	POSITIO N
1.	Operating Company Number (OCN)	4	1-4
2.	Company Name	30	5-34
3.	Change Code	1	35
4.	filler	7	36-42

NDM Dataset:	BCR.NUMBER.CIID	File Sequence:	6	Description:	CIID Codes
				Last Change:	1990

	FIELD DESCRIPTION	LENGTH	POSITION
1.	Beginning of CIID Assigned Range	6	1-6
2.	Ending of CIID Assigned Range	6	7-12
3.	Card Issuer's Name	25	13-37
4.	Card Issuer's Address (Line 1)	25	38-62
5.	Card Issuer's Address (Line 2)	25	63-87
6.	Card Issuer's Address (Line 3)	25	88-112
7.	Card Issuer's City	25	113-137
8.	Card Issuer's State	2	138-139
9.	Card Issuer's Zip Code	10	140-149
10.	Card Issuer's Billing Code Carrier Identification Code (CIC) or Alternate Billing Entity Code (ABEC)	5	150-154
11.	ABEC Indicator 0 = Previous field not an ABEC 1 = Previous field is an ABEC	1	155
12.	Access Customer Name Abbreviation (ACNA)	3	156-158
13.	Validation Database Operator Name	25	159-183
14.	Billing Agent or Host Name	25	184-208
15.	filler	3	209-211
16.	Billing Agent/Host RAO Code	3	212-214
17.	filler	35	215-249
18.	Effdate of Last Change (mmddy)	6	250-255
19.	Change Code	1	256

NDM Dataset:	BCR.MINOR.VH	File Sequence:	7	Description:	Minor V&H Data
				Last Change:	1/15/04

	FIELD DESCRIPTION	LENGTH	POSITION
1.	NPA	3	1-3
2.	NXX	3	4-6
3.	BLOCK ID	1	7
4.	filler	1	8
5.	Range	8	9-16
6.	NXXTYPE	2	17-18
7.	filler	1	19
8.	Effdate of Last Change (mmddy)	6	20-25
9.	Change Code	1	26
10.	filler	1	27
11.	Operating Company Number (OCN)	4	28-31
12.	Administrative Operating Company Number (AOCN)	4	32-35
13.	Company Code	2	36-37
14.	Company Type	1	38
15.	Bill to RAO	3	39-41
16.	Send to RAO	3	42-44
17.	filler	1	45
18.	Major Vertical Coordinate	5	46-50
19.	Major Horizontal Coordinate	5	51-55
20.	Rate Center LATA	3	56-58
21.	Rate Center LATA Subzone	2	59-60
22.	Rate Center Name Abbreviation	10	61-70
23.	Rate Center Type	1	71
24.	Place Name (or Service Name)	10	72-81
25.	State, Province, or Country Abbreviation	2	82-83
26.	filler	1	84
27.	Time Zone	1	85
28.	Daylight Savings Observed Indicator (0=N, 1=Y)	1	86
29.	Portability Indicator (0=N, 1=Y)	1	87
30.	Thousands Block Pooling Indicator	1	88
31.	IDDD Indicator (0=N, 1=Y)	1	89
32.	Dialable Indicator (DIND) (0=N, 1=Y)	1	90
33.	Other Line Rate Step	2	91-92
34.	Point Identification	1	93
35.	Effective Date of Assignment	6	94-99
36.	filler	11	100-110
37.	Minor Vertical Coordinate	5	111-115
38.	Minor Horizontal Coordinate	5	116-120

NDM Dataset:	BCR.PLNAME.DAT	File Sequence:	8	Description:	Place Name 10/50 Char. Mapping
		Last Change:			1/15/99

	FIELD DESCRIPTION	LENGTH	POSITION
1.	Place Name State (Territory, Province, Country)	2	1-2
2.	filler	1	3
3.	Place Name – Abbreviated 10 Characters	10	4-13
4.	filler	1	14
5.	Place Name – Extended 50 Characters	50	15-64

NDM Dataset:	BCR.NUMBER.RAO	File Sequence:	9	Description:	RAO Directory
		Last Change:			7/15/99

	FIELD DESCRIPTION	LENGTH	POSITION
1.	RAO Code	3	1-3
2.	filler	1	4
3.	Send to RAO	3	5-7
4.	RAO User Operating Company Number (OCN)	4	8-11
5.	Company Name	30	12-41
6.	RAO Contact Information		
	Contact Name - Field 1	25	42-66
	Contact Name - Field 2	25	67-91
	Number, Street, Room	25	92-116
	P.O. Box	9	117-125
	City	25	126-150
	State	2	151-152
	Zip	9	153-161
7.	Change of Address Indicator (0=N, 1=Y)	1	162
8.	Service Contact Information		
	Accounting Toll Phone Number	10	163-172
	MIC Bureau Phone Number	10	173-182
	Calling Card Phone Number	10	183-192
	Collect Ticket Phone Number	10	193-202
	MIC Fraud Phone Number	10	203-212
	Miscellaneous Service Heading 1	25	213-237
	Miscellaneous Service 1 Phone Number	10	238-247
	Miscellaneous Service Heading 2	25	248-272
	Miscellaneous Service 2 Phone Number	10	273-282
9.	Notes	200	283-482
10.	RAO Code Type Indicator	1	483
11.	Direct CMDS Participant / Hosting OCN	4	484-487
12.	filler	13	488-500

NDM Dataset:	BCR.RCNAME.DAT	File Sequence:	10	Description:	Rate Center 10/50 Char. Mapping
				Last Change:	1/15/03

	FIELD DESCRIPTION	LENGTH	POSITION
1.	Rate Center (RC) State (Territory, Province, Country)	2	1-2
2.	filler	1	3
3.	RC Name – Abbreviated 10 Characters	10	4-13
4.	filler	1	14
5.	RC Name – Extended 50 Characters	50	15-64

NDM Dataset:	BCR.INTLMX.DAT	File Sequence:	11	Description:	International Mexico
				Last Change:	2006

	FIELD DESCRIPTION	LENGTH	POSITION
1.	Country Name	40	1-40
2.	Country Code	3	41-43
3.	ISO2 Country Abbreviation	2	44-45
4.	Type of Service (TOS)	1	46
5.	Type of Service (TOS) Description	20	47-66
6.	Area Code	5	67-71
7.	City Code	5	72-76
8.	National Destination Code (NDC)	10	77-86
9.	Locality	50	87-136
10.	Service Provider	50	137-186
11.	Rating Indicator	2	187-188
12.	Time Zone (UTC)	6	189-194
13.	Minimum number of dialable digits	2	195-196
14.	Maximum number of dialable digits	2	197-198
15.	Daylight Savings Time (DST) start (yyyymmddhhmm)	12	199-210
16.	Daylight Savings Time (DST) end (yyyymmddhhmm)	12	211-222
17.	Supplement	40	223-262
18.	Administrative Division	20	263-282
19.	Billing Identifier	10	283-292
20.	Effective Date	10	293-302
21.	Primary or Secondary (POS)	1	303
22.	Activity Type	1	304
23.	filler	20	305-324

❖ **Note:** Fields that currently contain only numeric values (including a “-” sign) (e.g. Country Code, Area Code, NDC, etc.) are right justified without leading zeroes, however, Rating Indicator does have a leading zero for Mexico.