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SUMMARY

This document provides the Report Definition for FCC Report 43-07, the ARMIS Annual Infrastructure Report, which must be provided annually by study area. It contains the following:

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All percentage amounts must be entered in percent and rounded to 2 decimal places. All kilometers must be rounded to 1 decimal place. All monetary figures must be rounded to the nearest thousand dollars. All access lines must be entered in whole numbers. All switches, tandems, host remotes, interfaces, circuit lines, carrier links, terminations, channels, copper pairs, and fiber strands must be entered in whole numbers.

All fields must be populated. If a data field equals the quantity zero, enter the numeral zero in that field. This is the only proper use of zero in this report. If a filing carrier has a waiver applicable to a certain field, it must treat the data for that field as "Irretrievable" and footnote the reason for that entry (including a cite to the waiver, and a note as to its duration). Items which need not be reported because they do not apply are designated by N/A. DO NOT override N/As. If a reporting carrier should wish to apply data to a field containing an N/A, the carrier should enter the amount(s) and an explanation as a footnote to the field. The amount(s) must not be entered in an N/A'd field.

REMEMBER: Footnotes are mandatory in Table II for rows 410, 460 and 484. Footnotes are mandatory for all "Irretrievable" entries.

When errata occur, carriers must include in the transmittal letter a brief statement indicating the reason for the errata. Other explanatory notes must be included in the footnote section of the filing.

NOTICE: The ARMIS Infrastructure Report collects data designed to capture trends in telephone industry infrastructure development under price cap regulation and improves and standardizes existing reporting requirements for this purpose. The ARMIS Infrastructure Report specifies information requirements in a consistent format and is essential to the FCC to monitor service quality under price cap regulation. Your response is mandatory.

The public reporting for this collection of information is estimated to average 168 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0395), Washington, DC 20554.

We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to jboley@fcc.gov. PLEASE DO NOT SEND YOUR RESPONSE TO THIS ADDRESS.

Remember - You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0395.

FCC Report 43-07
 ARMIS INFRASTRUCTURE REPORT

COMPANY: XXXXXXXXXXXXXXXX
 STUDY AREA: XXXXXXXXXXXXXXXX
 PERIOD: From mmm yyyy To mmm yyyy
 COSA: XXXX

XXXX Version
 Submission XXX
 TABLE I
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TABLE I – SWITCHING EQUIPMENT

ROW	CLASSIFICATION	Total Study Area (a)	Within MSA (b)	Non-MSA (c)
<u>SWITCHES/LINES IN SERVICE:</u>				
0110	Total Switches		N/A	N/A
0111	Local Switches			
0112	Tandems		N/A	N/A
0113	Hosts			
0114	Remotes (Stand Alone Only)			
0120	Total Number Access Lines in Service			
<u>TYPE OF SWITCH:</u>				
0150	Total ASPC Switches		N/A	N/A
0160	ASPC Lines Served			
0170	Total DSPC Switches		N/A	N/A
0180	DSPC Lines Served			
<u>SWITCHING CAPABILITY:</u>				
0230	Total Switches Equipped with SS7		N/A	N/A
0240	Local Switches Equipped with SS7			
0250	Tandems Equipped with SS7		N/A	N/A
0270	Total Switches Equipped with ISDN		N/A	N/A
0280	Local Switches Equipped with ISDN			
0290	Tandems Equipped with ISDN		N/A	N/A
0300	Lines Served by ISDN Switches			
0311	Basic Rate ISDN (BRI) Interfaces Equipped			
0312	Primary Rate ISDN (PRI) Interfaces Equipped			

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 TABLE I I
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TABLE II – TRANSMISSION FACILITIES

ROW	CLASSIFICATION	Total Study Area (d)
<u>SHEATH KILOMETERS:</u>		
0320	Total Sheath Kilometers	
0321	Copper	
0322	Fiber	
0323	Other	
<u>INTEROFFICE WORKING FACILITIES:</u>		
0330	Total Circuit Links	
<u>LOOP PLANT – CENTRAL OFFICE TERMINATIONS:</u>		
0370	Total Working Channels	
0380	Copper	
0381	Baseband	
0382	Analog Carrier	
0383	Digital Carrier	
0390	Fiber Digital Carrier	
0410	Other	
0420	Total Equipped Channels	
0430	Copper	
0431	Baseband	
0432	Analog Carrier	
0433	Digital Carrier	
0440	Fiber Digital Carrier	
0460	Other	
<u>OTHER TRANSMISSION FACILITY DATA:</u>		
0470	Copper Prs. Term. Main Frame (Loop Plant Only)	
0480	Fiber Strands Term. in the CO (Loop Plant Only)	
0482	DS1s Term. at Customer Premises	
0484	Fiber Term. at Customer Premises at DS3 Rate or Higher	
0485	Hybrid Fiber/Metallic Loop Interface Locations	
0486	Switched Access Lines Served from Interface Locations	
0487	Total xDSL Term. at Customer Premises	
0488	xDSL Term. at Customer Premises via Hybrid Fiber/Metallic Interface Locations	
0490	Subscriber Lines Capable of ISDN	

Infrastructure Report

General Instructions

For the purposes of this report, the terms access lines, lines and lines in service are used interchangeably.

Table I

General Instructions

Switches - Switches are assemblies of equipment and software designed to establish connections among lines and between lines and trunks. Switches include tandems, local, class 5 switching machines and any associated remote switching machines; e.g., a host end office and its three associated remotes will be reported as four switches. There may be more than one switch per central office or wire center.

Lines in Service - Access lines include all classifications of local exchange telephone service including, but not limited to, individual lines, party line access, PBX access, Centrex access, Coin access, Foreign Exchange access and WATS access. Access lines, as defined herein, is a more inclusive term than billable access lines, as defined in the ARMIS 43-01 Report. See row instructions for rows 2090 through 2140 of the ARMIS 43-01 Report for the definition of billable access lines. Report all access lines in whole numbers.

Row Instructions

Row 0110 - Total Switches - Enter in whole numbers, the total quantity of local and tandem switches. This amount is equal to the sum of rows 0150 and 0170. Remotes to be included in the total switches count are those described in the general definition of remote.¹ A remote can generally be described as a switch that has no connection to the facilities network except through its host switch. The host provides the processing capabilities and certain control functions for the remote under the direction of the host central processor, and controls the remote over a pair of dedicated data links.

Note: Since some switches are used for both local and tandem switching, the sum of rows 0111 and 0112 may be greater than the amount entered on this row. For example, if there are 6 local switches, 4 tandem switches and 5 switches that are used for both local and tandem switching, row 0111 would equal 11 local switches, row 0112 would equal 9 switches, and row 0110 would equal 15 switches. In this case, the sum of rows 0111 and 0112 (20) would be greater than the amount of

¹ See 7 FCC Rcd 3590 (Com. Car. Bur. 1992). Technically concise definitions of "host" and "remote" are found in the *Local Exchange Routing Guide*.

total switches (15). Since we are asking only for the number of remotes with stand-alone capability, the total of rows 0113 and 0114 will be less than the total of the amounts entered on this row. For example, if there are 16 total switches, and there are 3 hosts and 7 remotes that have stand-alone capability, the sum of rows 0113 and 0114 (10) would be less than the amount of total switches (16).

Row 0111 - Local Switches - Enter in whole numbers, the total quantity of switches used as local switches.

Row 0112 - Tandems - Enter in whole numbers, the total quantity of switches that perform tandem switching.

Row 0113 - Hosts - Enter in whole numbers, the total quantity of hosts. A host is a switch serving one or more remotes.

Row 0114 - Remotes (Stand-Alone Only) - Enter in whole numbers, the total quantity of remotes. Include on this row, only those remote switches that are equipped to operate in a stand-alone fashion (i.e., able to operate if the host fails, or if the data links to the host fail) to be able to provide more limited service. Remote switches that are not within this description should not be included on this row.

Note: A remote can generally be described as a switch that has no connection to the facilities network except through its host switch. The host provides the processing capabilities and certain control functions for the remote under the direction of the host central processor, and controls the remote over a pair of dedicated data links. All types of remote switches are included with the switch counts in row 0110. However, row 0114 excludes remotes that are incapable of providing stand-alone operation when the host switch fails.

Row 0120 - Total Number Access Lines In Service - Enter in whole numbers, the total quantity of access lines in service. This amount is equal to the sum of rows 0160 and 0180.

Type of Switch - Types of switches include Analog Stored Program Controlled (ASPC) and Digital Stored Program Controlled (DSPC).

Row 0150 - Total ASPC Switches - Enter in whole numbers, the total quantity of local and tandem Analog Stored Program Controlled switches.

Row 0160 - ASPC Lines Served - Enter in whole numbers, the total quantity of lines served by Analog Stored Program Controlled switches.

Row 0170 - Total DSPC Switches - Enter in whole numbers, the total quantity of local and tandem Digital Stored Program Controlled switches.

Row 0180 - DSPC Lines Served - Enter in whole numbers, the total quantity of lines served by

Digital Stored Program Controlled switches.

Row 0230 - Total Switches Equipped with SS7 - Enter in whole numbers, the total quantity of local and tandem switches equipped with SS7.

Row 0240 - Local Switches Equipped with SS7 - Enter in whole numbers, the total quantity of switches used as local switches that are equipped with SS7.

Row 0250 - Tandems Equipped with SS7 - Enter in whole numbers, the total quantity of switches that perform tandem switching and are equipped with SS7.

Row 0270 - Total Switches Equipped with ISDN - Enter in whole numbers, the total quantity of local and tandem switches that are equipped with ISDN. Since some switches are used for both local and tandem switching, the sum of rows 0280 and 0290 may be greater than the amounts entered on this row (see example, row 0110).

Row 0280 - Local Switches Equipped with ISDN - Enter in whole numbers, the total quantity of local switches that are equipped with ISDN.

Row 0290 - Tandems Equipped with ISDN - Enter in whole numbers, the total quantity of switches with tandem capability that are equipped with ISDN.

Row 0300 - Lines Served by ISDN Switches - Enter in whole numbers, the total quantity of lines served by switches equipped with ISDN. Do not include in this count lines that could be connected to switches equipped with ISDN.

Row 0311 - Basic Rate ISDN (BRI) Interfaces Equipped - Basic rate ISDN consists of two Bearer Channels at 64 Kilobits/second and one Delta Channel at 16 kilobits/second. Quantities reflected are the number of (2B + D) BRI interfaces equipped. This amount represents actual interfaces equipped with ISDN. Enter in whole numbers.

Row 0312 - Primary Rate ISDN (PRI) Interfaces Equipped - Equivalent primary rate ISDN interfaces are generally configured as 23 Bearer Channels and one Delta Channel all at 64 kilobits/second. Quantities reflected are the number of equivalent PRI (23B + D) ISDN interfaces equipped, excluding interoffice PRI ISDN interfaces. This amount represents actual interfaces equipped with ISDN. Enter in whole numbers.

Table II

Row 0320 - Total Sheath Kilometers - The total length in kilometers of all loop and interoffice cables (Plant in Service – Account 2410) without regard to the number of pairs. Round to 1 decimal place. Row 0320 shall equal the sum of rows 0321, 0322, and 0323.

Row 0321 - Copper - Enter the number of sheath kilometers of twisted pair copper cable. Round to 1 decimal place.

Row 0322 - Fiber - Enter the number of sheath kilometers of fiber. Round to 1 decimal place.

Row 0323 - Other - Enter the number of sheath kilometers of aluminum, coaxial, and all other sheath kilometers not included in rows 0321 or 0322. Round to 1 decimal place.

Row 0330 - Total Circuit Links - A circuit link is that link that exists between points A and B where voice frequency/DS0 cross-connects and/or analog/digital conversion (collectively referenced here as conversion) occurs. Circuit links are counted as follows: If there is a circuit between A and B with no intermediate conversions, count one circuit link for each voice frequency equivalent channel. If there is a circuit between A and B with one intermediate conversion, count two circuit links for each voice frequency equivalent channel. Similarly, two intermediate conversions between A and B would result in three circuit links per voice equivalent channel. Enter in whole numbers.

LOOP PLANT - CENTRAL OFFICE TERMINATIONS – The quantities reported in Rows 0370 through 0460, expressed as 4 kHz channels, refer to facilities that connect end user customers with their serving wire centers / central offices. This measure also includes the “local channel” portions of Special Access / private line / special services connecting end user customers with their serving wire centers or central offices. However, “Local Loop Plant” excludes facilities connecting serving wire centers / central offices to interexchange carrier (IXC) or other access customer points of presence (POPs) because these channels are customarily treated as interoffice—not loop—facilities.

Row 0370 - Total Working Channels - Working Channels are on a 4 kHz bandwidth (single voice channel) basis. Working channels originating from a remote switch are treated the same as if the channels originated in the host central office. All reports of working channels are counted on this 4 kHz basis for purposes of this report. This amount equals the sum of rows 0380, 0390 and 0410. Enter in whole numbers.

Row 0380 - Total Copper - Enter the number of copper working channels. This amount equals the sum of rows 0381, 0382 and 0383. Enter in whole numbers.

Row 0381 - Baseband - Enter the number of baseband copper working channels, converted to voice frequency equivalents. Enter in whole numbers.

Row 0382 – Analog Carrier - Enter the number of analog carrier copper working channels, converted to voice frequency equivalents. Enter in whole numbers.

Row 0383 – Digital Carrier - Enter the number of digital carrier copper working channels, converted to voice frequency equivalents. Enter in whole numbers.

Row 0390 - Fiber Digital Carrier - Enter the number of fiber digital carrier working channels,

converted to voice frequency equivalents. Enter in whole numbers.

Row 0410 - Other - Enter the number of other working channels. **Explain the data entered here in a footnote.** Enter in whole numbers.

Row 0420 - Total Equipped Channels - Equipped channels are on a 4 kHz bandwidth (single voice channel) basis. Equipped channels originating from a remote switch are treated the same as if the channels originated in the host central office. This amount equals the sum of rows 0430, 0440 and 0460. Enter in whole numbers.

Row 0430 - Copper - Enter the number of copper equipped channels. This amount equals the sum of rows 0431, 0432 and 0433. Enter in whole numbers.

Row 0431 - Baseband - Enter the number of baseband copper equipped channels in whole numbers.

Row 0432 - Analog Carrier - Enter the number of analog carrier copper equipped channels in whole numbers.

Row 0433 - Digital Carrier - Enter the number of digital carrier copper equipped channels in whole numbers.

Row 0440 - Fiber Digital Carrier - Enter the number of fiber digital carrier equipped channels in whole numbers.

Row 0460 - Other - Enter the number of other equipped channels in whole numbers. **Explain the data entered here in a footnote.**

Row 0470 - Copper Pairs Terminated at the Main Frame (Loop Plant Only) - Enter the number of copper pairs terminated at the main frame in whole numbers.

Row 0480 - Fiber Strands Terminated in the Central Office (Loop Plant Only) - Enter the number of individual fiber strands terminated in central offices in whole numbers.

Row 0482 - DS1s Terminated at Customer Premises - Enter the number of individual DS1 systems terminated at the customer's premises, other than trials. Enter in whole numbers.

Row 0484 - Fiber Terminated at Customer Premises at DS3 Rate or Higher - Enter the number of individual DS3 systems and, for systems higher than DS3, the number of equivalent DS3 systems provided over fiber strands, other than trials. **Footnote the number of individual systems provided over fiber strands terminated at the customer's premises at a higher than DS3 rate, if any.** Enter in whole numbers.

Row 0485 - Hybrid Fiber/Metallic Loop Interface Locations - Enter the number of locations other

than central office locations where an interface between fiber cable and copper pairs or coaxial cable exists. Include fiber to the curb locations, fiber to the pedestal locations, and other similar locations with a fiber/metallic interface capable of providing broadband services.

Row 0486 - Switched Access Lines Served from Interface Locations - Enter the number of switched access lines reported in row 0120 that are physically routed through the interface locations reported in row 0485.

Row 0487 - Total xDSL Terminated at Customer Premises - Enter the total number of incumbent LEC-provided working digital subscriber lines terminated at customers' premises locations. Include lines provided over metallic loop facilities and lines provided over a combination of fiber and metallic loop facilities, where such lines terminate in either incumbent LEC-provided or customer-provided termination equipment. The total should include only those lines that are totally provided by the incumbent LECs.

Row 0488 - xDSL Terminated at Customer Premises via Hybrid Fiber/Metallic Interface Locations - Enter the number of customer-premises-terminated working digital subscriber lines that are provided through a hybrid fiber/metallic interface location included in row 0485.

Row 0490 - Subscriber Lines Capable of ISDN - Enter in whole numbers, the quantity of working subscriber lines (loop plant between customer locations and their serving central offices) that meet all current transmission parameters for basic rate (2B+D) ISDN without additional engineering. (Transmission parameters include resistance, attenuation, absence of loading coils, bridged taps, etc.) This quantity shall include all lines currently providing ISDN, and shall also include lines served by all wire centers in the study area, including those from switches not capable of providing ISDN. The number must reflect the operations as of the end of the reporting year (Dec. 31, XXXX).

Column Descriptions

Table I

Column (a) - Total Study Area - This column represents the total study area. A study area usually consists of a telephone company's service territory in a given state, although telephone companies occasionally have more than one study area in a particular state. Enter the facilities in the total study area in this column. This amount should equal column (b) plus column (c).

Column (b) - Within MSA - This column represents all MSAs served within the study area. MSAs, or Metropolitan Statistical Areas, are designated by the Office of Management and Budget in a list following each decennial census. An MSA includes at least one city with a minimum population of 50,000 and its surrounding area, or a Census Bureau defined urbanized area of at least 50,000 population located in one or more counties that qualify and whose population is at least 100,000. See 55 Fed. Reg. 12154 (March 30, 1990). Enter the facilities within any MSA in the Study Area in this column.

Column (c) - Non-MSA - This column represents all areas which lie outside of any MSA. Enter the facilities in the Study Area which are located outside of any MSA.

Table II

Column (d) - Total Study Area - See description for Table I, column (a).