cyber 'zine

Issue 14 or so

Ameritech

GIFT PROGRAM

mu!+iPLX

f0+0n FaN+0m

Boo-hoo-hoo. Ameritech is gonna cry when they see this! This is a list of "Subject Matter Experts (SME)", these people are trained in their particular area(s), and will answer any questions you throw them. Remember, the phone company can change numbers and/or fired people whenever they please so it may not be that accurate.

SUBJECT	SME	(414) PHONE NUMBER
^^^^^^	^^^	^^^^^^^^^^^^
900 MHz Radio Trunking	John Kuzma	532-8794
ACM Provisioning MAC	Jane Ploetz	678-0790
ACOIM Center M&P	Jim Salaj	678-6401
ADC Provisioning MAC (analog & digital)	Jane Ploetz	678-0790
Advanced Custom Call Svcs.	Mary Peterson	678-5599
Advisor Books Distribution	Dennis Dallman	678-3653
AIRFAP	Jeff Wong	678-4992
BSP Coordinator/Provisioning	Dennis Dallmann	678-6353
Business Office Interface	Jim Salaj	678-6401
Business Sets	Mary Peterson	678-5599
C.O. Alarms	Tim Roesch	678-0236
Central Office CXR	Tim Roesch	678-0236
Central Office NTEL	Tim Roesch	678-0236
Centrex Field Support	Mary Peterson	678-5599
CLCI-SS Code Set	Bill Dodd	523-8789
Clear Channel DS1 (64CCC)	John Kuzma	523-8794
CO LAN Field M&P	Jeff Wong	678-4992
Codes/FIELD	Jeff Wong	678-4992
CPC Support (Specials)	Bill Dodd	523-8789
Craft Access Prov. Support	Dennis Dallmann	678-3653
Custom Business Services	Mary Peterson	678-5599
Customer Brochures	Mary Peterson	678-5599
Customer Owned Coin Phones	Jeff Wong	678-4992
DNAC	Tim Roesch	678-0236
Drop Wire	Jeff Wong	678-4992
DSOC Load Area M&P	Jim Salaj	678-6401
EMAC (procedures,training)	Claire (Cheech) Widi	678-4394
FCC Registration	Jeff Wong	678-4992
FMAC Provisioning Guidelines	John Kuzma	523-8794
Generic Dispatch System	Dennis Dallmann	678-3653
Held Order Procedures	Jim Salaj	678-6401
HICAP Provisioning	John Kuzma	523-8784
Inside Wire and Jacks	Jeff Wong	678-4992
InterExchange Carriers	John Kuzma	523-8794
Intercept	Tim Roesch	678-0236
ISDN Provisioning (Field)	Dennis Dallmann	678-3653
ISDN Provisioning MAC	Jane Ploetz	678-0790
ISDN CO Methods	Tim Roesch	678-0236
LATIS	Tom Jezwinski	678-5893
Light Guide Cross-Connect Bay	Tim Roesch	678-0236
MAC Access/Security/General	Jane Ploetz	678-0790
MAC Handbook	Tom Jezwinski	678-5893
MAC Out-of-Hours Outage Cor.	Jane Ploetz	678-0790
MAC PCN Numbers	"	"
MAC Terminal Commands	"	"
MAC User Manuals	"	"
MAC User Support For:	Tom Jezwinski	678-5893

```
CPC/LAC, DNAC, Frames, OSPE,
SCC, SSC, CPC and Construction
MAC User Support For:          Claire Widi             678-4394
LAC, DBMC, Business Office,
E911, [ed note: Uhh, whats the
number for 911] Recent Changes
MAC/LAC M&P                    Jane Ploetz             678-0790
MAC/LAC M&P                    Jim Salaj               678-6401
MAC/LEIS Extract Distribution  Tom Jezwinski           678-5893
MAC/MBA Conversion             Bill Dodd               523-8789
MACAC Monitoring Reports       Claire Widi             678-4394
MAC Provisioning               Jim Salaj               678-6401
MARCH User Support             Helen Zielinski         678-0280
MARCH/MAC Completions Inter.   Claire Widi             678-4394
Mechanical Conversion Liaison  "                       "
Meter Reading M&P              Mary Peterson           678-5599
Microwave                      John Kuzma              523-8794
MIZAR/CCRS User Guide Book     Helen Zielinski         678-0280
NAC Support                    Tim Roesch              678-0236
NC/NCI Code Set                Bill Dodd               523-8789
Network Interface (SNI)        Jeff Wong               678-4992
Network Interval Committee     Jim Salaj               678-6401
Offical Services M&P (field)   Jeff Wong               678-4992
OPTINET I&M                    Jeff Wong               "
Power Co. Sub-Stn Services     Mary Peterson           678-5599
PROCDS/CDS (Specials)          Bill Dodd               523-8789
RCC Centrex M&P                Helen Zielinski         678-0280
RCC ISDN M&P                   "                       "
RCC Managers Meeting           "                       "
RCC Regional Course Develp.    "                       "
RCC Regional Handbook          "                       "
RCC Technical Support          "                       "
All Switch types
RCC Training                   "                       "
Repair Callback Units          Jim Salaj               678-6401
SASO Memos                     "                       "
Scan Alert M&P (tech)          Mary Peterson           678-5599
Service Order Due Dates        Jim Salaj               678-6401
Service Order Reports          "                       "
Signaling System 7 (SS7)       Tim Roesch              678-0236
SLC Intergrated COT            "                       "
SNCC                           "                       "
Special Services Center (SSC)  John Kuzma              523-8794
Station Bonding and Grounding  Mary Peterson           678-5599
STIX (SORD/TIRKS Interface)    Bill Dodd               523-8789
Taskmate                       John Kuzma              523-8794
Technicians Handbook           Mary Peterson           678-5599
Phone # list, Dist. Service    Dennis Dallmann         678-3653
Supervisors
TUF Tape Distribution          "                       "
WFA-DO                         John Kuzma              523-8794
WFA-DO                         Jeff Wong               678-4992
--------------------------------------==([ multiPLX ])==-----------
Customer Name and Address: 678-4755
Automatic Number AnnouCement: 330-4321
```

     The SecurID security system is used to prevent unauthorized access
to Ameritech corporate computer systems and central office switches
via dial-up modem ports. The system consists of two major elements:
the SecurID card, developed by Security Dynamics, and security
software running on either a mainframe of midrange computer.
     The SecurID card is a sophisticated hand-held authentication
device and is used instead of a password. The SecurID card is the size
of a credit card and is convenient to carry. Each card is programmed
with a unique seed and proprietary algorithm. This information is also
stored in the SecurID security system. The random display of numbers
on the face of the card changes every sixty seconds. Small horizontal
bars to the left of the display let the user know, in 10 second
increments, how long the number has been displayed. A SecurID card's
life cycle is approximately three years. Some cards will have a
shorter life due to being in storage or reuse.

     The administration of the SecurID cards and the SecurID security
system is handled by Ameritech -Distributed Security. Office hours and
phone coverage for card requests and profile updates is provided
between 8:00am - 5:00pm ET/CT Monday through Friday. Dialup and login
support is available 24 hours a day, 7 days a week through the
appropriate SecurID Administration Center Hotline. See below:

Illinois and Wisconsin

Ameritech -Distributed Security
Attn: SecurID Administration
225 W. Randolph, Room HQ9A
Chicago, IL 60606
Hotline: 312-727-8923
FAX: 312-727-4259

Indiana, Michigan and Ohio

Ameritech -Distributed Security
Attn: SecurID Administration
23500 Northwestern Hwy., Room A220
Southfield, MI 48075
Hotline: 810-424-7505
FAX: 810-424-2550

Using the SecurID card system
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
     The SecurID Administrator will establish a UserID for each user
based on the Ameritech User Identification Standards. The UserID will
be in lower case.

     The passcode will consist of a user created PIN and the digits
currently displayed on the front of the SecurID card. The users may
change their PIN whenever they want. A previously used PIN may be
reused. Forgot your PIN? Contact the SecurID Hotline.

PIN Format

- Must be four characters long and can be alpha and/or numeric.

- Cannot have three or more characters in a simple sequence.
  (i.e. aaaa, 1111, 1234, 3690, aceg)
- The PIN is UPPER and lower case specific.

Expired PIN Format

A new PIN must differ from the expired PIN in at least three character positions. Also, the new PIN format cannot be a variation of the old PIN or its reverse. (i.e. Old PIN= junk, New can't be= knuj, nkju) A PIN will expire after a maximum age of 180 days.

Logging In

Users will have three attempts in one session to pass SecurID authentication. Users that cannot be authorized in three attempts will be disconnected from their session.

Users who cannot properly login after three successive sessions (9 attempts) will be disabled because unauthorized access attempts are suspected. A legitimate user must call the SecurID Hotline, and after providing sufficient authentication, will be let back on the system.

First Time Usage
~~~~~~~~~~~~~~~~

1. Dial into one of the Michigan Security Server modem pools (numbers will be at the end of the article).

        System Response= UserID:

2. Enter your assigned UserID, i.e. a123456

        System Response= PASSCODE:

NOTE: If the system responds PASSWORD:, the UserID is NOT valid.

3. Enter the Startup PIN (in the Login information letter, for legitimate users) and the current number displayed on the SecurID card in the format: ppppnnnnnnn (where p = PIN and n = card display). DON'T separate them by a space.

        System Response: YOUR OLD PIN HAS EXPIRED, PLEASE CHOOSE A NEW
                         ONE.
                         OLD PIN:

4. Enter the startup PIN, i.e. h376 (DON'T include the numbers on the SecurID card.)

        System Response: New PIN:

5. Enter new PIN, i.e. z832 (DON'T include SecurID numbers).

        System Response: Last Login ....
                         DESTINATION:

6. Enter a destination name provided in your Login Information letter, i.e. miaio

        System Response: Login prompt of destination

After all of this, your UserID and Passcode will be used to gain access until they expire or you change them. (NOTE: UserID's will be the person's first initial and last six digits of their social security number EXAMPLE: Mary Tech, SS# 398-12-3456 will have the UserID of = m123456).

Error Messages Encountered on the Server(s)
~~~~~~
PASSWORD: -Incorrect UserID.
Destination is unavailable   -All ports are busy try alternate
                                           -User may be suspended for
                                            unsuccessful login attempts.
Hung up in application   -OpenNet application/system
                                                1. Press Ctrl-] and return
                                                2. At telnet> type close
                                                   or quit
                                           A note about OpenNet systems:
                                           SecurID's are not required when
                                           accessing systems from OpenNet.

Accessing SNA Networks
~~~~~~~~~~~~~~~~~~~~~~~
Note: CARDCODE: -Digits currently displayed on the SecurID card.
The user will have nine attempts to log into the system before their
card is disabled. Call the SecurID Hotline to enable it.

Ohio Access Instructions- Cx80 Protocol Converter

Modem/Terminal Setup: Terminal type: VT100   Modem: 2400, 7E1

Access Number: 216-822-2931

1. When connected press the Shift key and } key. until the following
appears-   ** Cx80 VER 04.83 **
                 USERID:
                 CARDCODE:
2. Input your USERID and press the Tab key.

The system will respond: (The following is the same in all
                                   systems)

TERM: L1F0781F   TIME: 11:34 95.095
****
AMERITECH ID: SECURID

 WARNING!
THIS SYSTEM IS RESTRICTED TO AUTHORIZED PERSONS FOR AUTHORIZED
BUSINESS PURPOSES. USERS MAY BE MONITORED TO PROPERLY ADMINISTER THE
SYSTEM. BLAH BLAH...
TO USE => ENTER REGIONAL APPLICATION ID (APPLID) ONLY
ENTER X => RETURN TO LOGIN SCREEN
ENTER SELECTION ===>

3. Input the Regional APPLID of the system you wish to access and hit
enter. Example: AAT3's APPLID is ATTSO3

System Response: CARDCODE APPROVED. PLEASE WAIT A MOMENT.
              The login screen for the requested application.

Ohio Access Instructions -Renex Protocol Converter

Modem/Terminal Setup: Terminal type: VT100   Modem: 9600, 8N1

Access Numbers: 216-384-3981, 216-822-3062, 216-822-5476,
                  216-822-5477
1. Once connected press enter once.

        System Response: Renex TMS-three, SN-00300974
                         Enter service code -

2. Enter 1LU and press enter.

        System Response: Enter terminal type or "M" for menu -

3. Enter VT100 and press enter.

        System Response: USERID:
                         CARDCODE:
4. Input UserID and press Tab

The system response and selections will be the same as stated before.

Illinois and Wisconsin Access Instructions -Renex Protocol Converter
----
Modem/Terminal Setup: Terminal type: VT100   Modem: 9600, 8N1

Access Numbers: 312-474-0250, 312-474-1146, 414-523-0529
                  1-800-924-9127 (Wisconsin Statewide Access- excludes
                                  Milwaukee)
                  1-800-453-0581 (Outside Wisconsin)

If you get the warning screen (it will be the same for all Ameritech
Operating Companies) hit any alpha key (a-z) and press enter.

Proceed as stated before.

Michigan Access Instructions -Cx80 Protocol Converter

Modem/Terminal Setup: Terminal type: VT100   Modem: 9600, 7E1

Access Number: 810-424-1868

1. When connected press the Shift key and } key until the following
message appears.

        System Response: ** Cx80 VER 05.04
                          Michigan Bell Telephone Company
                          >>> COMMTEX Cx-80/PC-2 <<<

```
MM        MM      IIIIII      SSSSSS
MMMM    MMMM        II       SS    SS
MM MM  MM MM        II       SS
MM    MMM   MM      II        SSSSSS
MM     M    MM      II             SS
MM          MM      II       SS    SS
MM          MM     IIIIII     SSSSSS
```

```
*-----------------\   ---------------*
* D I A L - I N    \              *
*-----------------\ \-------------*
*                  \ \ N E T W O R K *
*-----------------  \-------------*
```

2. Hit enter.

Proceed as stated above.

SecurID Modem Pool List	All are 9600 unless noted

Network Access Servers (NAS)

Illinois	312-368-0880	Chicago
	217-522-0091	Springfield
	708-259-2092	Arlington Hts.
	708-653-0450	Wheaton
	815-722-2518	Joliet
Indiana	317-687-0333	Local/Long Dis.
	1-556-4066	Indiana Official Service
Ohio	216-384-2217	Akron
	216-223-6224	Cleveland
	614-223-4541	Columbus
	513-299-4648	Dayton, 1200 b
	419-245-7136	Toledo, 1200 b
	1-800-604-0700	Akron, Intralata only
	1-800-604-0800	Cleveland, Intralata only
	1-800-604-0900	Columbus, Intralata only
Wisconsin	414-344-1538	Milwaukke
	414-345-1537	Milwaukee
	1-800-254-0070	Milwaukee, Intralata only

SNA Mainframes

Illinois	312-474-0250	Renex Protocol
	312-474-1146	Renex Protocol
Michigan	810-424-1868	Cx-80 Protocol
Ohio	216-384-3981	Renex Protocol

```
                                    216-822-3062    Renex Protocol
                                    216-822-5476    Renex Protocol
                                    216-822-5477    Renex Protocol
                                    216-822-2931    Cx-80 Protocol

             Wisconsin             414-523-0529    Renex Protocol
                                  1-800-924-9127   Wisconsin
                                                   Statewide access
                                                   -excludes
                                                   Milwaukee
                                  1-800-453-0581   Outside WI
                                                   Renex Protocol
```

Michigan Security Server
~~~~~~~~~~~~~~~~~~~~~~~~~

```
             Detroit             313-496-8061

             Marquette           906-225-6602
                                1-800-521-6775    906 Intralata
                                                      only
             Grand Rapids       616-776-9350
                                616-732-1943     2400 baud
                                1-800-924-3826   616 Intralata
                                                      only
                                1-800-560-9998   616 Intralata
                                                      only, 2400

             Saginaw            517-776-4783
                                517-776-4194     2400 baud
                                1-800-246-1560   517 Intralata
                                                      only
                                1-800-560-8181   616 Intralata
                                                      only, 2400

             Southfield         810-424-8620
                                810-424-0422
                                810-424-8822     2400 baud
                                810-424-8710     2400 baud
                                1-800-585-6241   313/810
                                                 Intralata only
                                1-800-585-6240   313/810   2400
                                                 Intralata only
```

     For system/network problems you can contact the "Client Help
Center" at 312-930-3800. (Formerly the Universal Help Desk) They can
help you with login/logoff, software, and networking problems. They
will usually answer just about anything you throw thier way. Just be

prepared to give Terminal ID's, User ID's, Circuit ID's,
Responsibility Codes, and the other ususal things they ask (your name,
social security number, phone number).
     Please notify me if there are any changes to this list, or if you
continuely get "Server not answering" messages. Most of the Network
Access Servers are running Unix. Once inside, you can choose the
different wire centers that are connected to the server and check loop
or job status' or LEIS reports, or read their mail. Also, I don't have
the keyboard maps for the protocol converters, so you'll have to find
those.
     Ω

This is what a Trans Union credit report looks like. (All the good data has been blocked because this was taken from a real report) editor notes = []

```
'************** TRANS UNION CONSUMER CREDIT REPORT ****************
'.                        XXXXXX NORTH                            *
'.                                                                *
'*************** Dept: NORTH / Queued by: XXXXXX ******************
```

DATE: 06-15-1995   TIME:19:23:56   SUBJECT ID:NORTH

```
I SMITH,JOHN,A,,*                     [subject name, address, SS#,
1234 N,MAIN,ST,ANYTOWN,WI,54123,*      and phone #]
5 388473456,6758,/8,958-0000,,*
'
```

TRANS UNION CREDIT REPORT

<FOR>	<SUB NAME>	<MKT SUB>	<INFILE>	<DATE>	<TIME>
(I)ZGB2509	NEW-CELL	09-GB	5/86	06/15/95	19:23

[inquiry info and date entered into system]

<SUBJECT>	<SSN>	<BIRTH DATE>
SMITH, JOHN A.	388-47-3456	7/76
		<TELEPHONE>
		958-0000

<CURRENT ADDRESS>   <DATE RPTD>
1234 N. MAIN ST., ANYTOWN WI, 54123   3/92
<FORMER ADDRESS>
345 NORTH RD., SLIPLINE, WY, 43567   7/90

[subject address, social security #, dates lived at address or moved]

<CURRENT EMPLOYER AND ADDRESS>   <RPTD>
AMERITECH   8/90
<FORMER EMPLOYER AND ADDRESS>
LEGION OF DOOM   12/89

S P E C I A L   M E S S A G E S   [no idea, sounds bad]
*** HAWK-ALERT: CLEAR

M O D E L   P R O F I L E   * * * A L E R T * * *
*** EMPIRICA ALERT: SCORE +661, SERIOUS DELINQUENCY, DEROGATORY PUBLIC
RECORD OR COLLECTION, FREQUENT DELINQUENCY; TOO MANY RECENT CREDIT
CHECKS OR RECENT APPLICATIONS; INSUFFICIENT LENGTH OF CREDIT HISTORY *

[poor guy, they keep track of EVERYTHING!]

C R E D I T   S U M M A R Y   * * * T O T A L   F I L E   H I S T O R Y
PR=0 COL=2 NEG=2 HSTNEG=2-5 TRD=9 RVL=4 INST=5 MTG=0 OPN=0   INQ=16
```

| | HIGH CRED | CRED LIM | BALANCE | PAST DUE | MNTHLY PAY |
|---|-----------|----------|---------|----------|------------|
| REVOLVING: | $3400 | $2000 | $417 | $0 | $20 |
| INSTALLMENT: | $8213 | $ | $1100 | $0 | $166 |
| TOTAL: | $11.6K | $2000 | $1517 | $0 | $186 |

------------------------------------------------------------------------

```
C O L L E C T I O N S
SUBNAME         SUBCODE    ECOA     OPENED    CLOSED   $PLACED   CREDITOR   MOP
ACCOUNT#                            VERIFIED           BALANCE   REMARKS
COW CREDIT   Y 472XXXX     I        8/90      8/90F    $85       COW CREDIT UN
78XXX                               3/93A              $0        PAID COLLECT

FINANCE SYS  Y 472XXXX     I        6/88      6/88C    $45
COLL090103XXXXX                     6/88V                        PAID COLLECT
-------------------------------------------------------------------------------
T R A D E S
SUBNAME         SUBCODE             OPENED   HIGHCRED  TERMS  MAXDELQ  PAYPAT
ACCOUNT#                            VERIFIED CREDLIM   PASTDUE AMT-MOP PAYPAT

CITIBK VISA  B 64DBXXX              5/94
4128XXXXXXXX                        11/94A   $1500     $0
I  CREDIT CARD                      10/94

[list all the credit cards you have, loans, and other bank crap]
-------------------------------------------------------------------------------
I N Q U I R I E S
DATE          SUBCODE            SUBNAME          TYPE        AMOUNT
3/12/90       ZDP3456            NEW-CELL
5/23/92       NCH0012832 (CHI)   CITIBANKSD
6/19/92       NCH345092  (CHI)   SEARS
[jerks that looked into your credit history]
-------------------------------------------------------------------------------
E N D  O F  C R E D I T  R E P O R T  -  S E R V I C E D  B Y :
TRANS UNION CORPORATION                          414-328-9950
760  W. SPROUL ROAD, P.O. BOX 390,
SPRINGFIELD, PA    19064-0390
-------------------------------------------------------------------------------
L O O K
NEW-CELL INC          ZDP3456            (414) 339-8822
CITIBANK NA           NCH0012832         (800) 950-5114
SEARS ROEBUCK & CO    NCH345092          (800) ???-????

                    COPYRIGHTED TRANS UNION 1994

GO

*** END OF REPORT ID: 06-15-1995/19:30:50 (ORN: 258 ) B-0/F-0/P-0 ***
-------------------------------------------------------------------------------
>>>> All this just from a social security number. NOTE: This was
edited and some unimportant things were left out. <<<< multiPLX
```

Computer Systems to Explore >> at your own risk
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```
Northeast Wisconsin Technical College  |  Prime Federal Bank
\/~~~~~|~~|~~~~~~~~~~~~~~~~~~~~~|~~~~~|~~\/~~~~~~~~~~~~~~~~~~~~~~~~
498-6264 |  |Dept. Motor Vehicles|    |  337-2401
498-6265 |   \/~~~~~~~~~~~~~~~~~~~~    |
498-6266 |    492-5715 cd31 Green Bay> |  Brown County Data Processing
498-6267 |     telnet: 130.47.0.10     |  \/~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
498-6268 |             130.47.0.1      |  448-4026  UNIX
         |             130.47.0.20     |
Host     |             130.47.0.30     |  Postal BBS
Access   |  Better know a little DEC   |  \/~~~~~~~~~
Code:    |  and UNIX                   |  1-800-262-9541
........................................................................
```

This is a list of Central Office prefixes in Wisconsin. It's missing a couple, so if you know them, give them to us.

Compiled by multiPLX <<>>

C.O.	N.P.A.	City	C.O	N.P.A.	City
221	414	Milwaukee	249	715	Hancock
221	608	Madison	250	414	Menomonee Falls
222	414	Milwaukee	251	414	"
222	608	Madison	251	608	Madison
223	414	Milwaukee	251	715	Niagara
223	608	Madison	252	414	Menomonee Falls
223	715	Colby	252	608	Madison
224	414	Milwaukee	253	414	Menomonee Falls
225	414	"	253	608	Wisconsin Dells
226	414	"	253	715	Wittenburg
227	414	"	254	414	Milwaukee (cell)
228	414	"	254	608	Wisconsin Dells
228	715	Coloma	255	414	Menomonee Falls
229	414	Milwaukee	255	608	Madison
229	715	Owen	255	715	Loyal
231	608	Madison	256	414	Milwaukee
232	414	Oshkosh	256	608	Madison
232	608	Madison	256	715	Waupaca
232	715	Menomonie	257	414	Milwaukee
233	414	Oshkosh	257	608	Madison
233	608	Madison	257	715	Athens
234	414	Appleton (cellular)	258	414	Milwaukee
234	715	Rice Lake	258	608	Madison
235	414	Oshkosh	258	715	Waupaca
235	715	Menomonie	259	414	Milwaukee
236	414	Oshkosh	259	608	Madison
236	715	Rice Lake	259	715	Webb Lake
237	414	Milwaukee (cellular)	261	414	Watertown
237	715	New Aubum	261	608	Madison
238	414	Thiensville	262	414	Watertown
238	608	Madison	262	608	Madison
238	715	Granton	262	715	Prescott
239	414	Burlington	263	414	Milwaukee
239	715	Cornell	263	608	Madison
241	414	Thiensville	263	715	Clear Lake
241	608	Madison	264	414	Milwaukee
242	414	Thiensville	264	608	Madison
242	608	Madison	264	715	Glidden
243	414	Thiensville	265	414	Milwaukee
243	608	Madison	265	608	Madison
243	715	New Richmond	265	715	Glenwood City
244	414	Ogdensburg	266	414	Milwaukee
244	608	Madison	266	608	Madison
244	715	Dairyland	266	715	Winter
245	414	Williams Bay	267	608	Madison
246	414	Sussex	267	715	Greenwood
246	608	Madison	268	715	Amery
246	715	New Richmond	269	414	Lomira
247	715	Somerset	269	608	Sparta
248	414	Lake Geneva	269	715	Deer Lake
248	608	Cochrane	271	414	Milwaukee
248	715	Star Prairie	271	608	Madison
249	414	Lake Geneva	272	414	Milwaukee
249	608	Madison	272	608	Cataract

272	715	Sugar Camp
273	414	Milwaukee
273	608	Madison
273	715	Ellsworth
274	414	Milwaukee
274	608	Madison
274	715	Mellen
275	414	Walworth
275	608	Madison
275	715	Elcho
276	414	Milwaukee
276	608	Madison
276	715	Lakewood
277	414	Milwaukee
277	608	Madison
277	715	Lake Tomahawk
278	414	Milwaukee
278	608	Madison
278	715	Marengo
279	414	Genoa City
281	414	Milwaukee
281	608	Madison
282	414	Milwaukee
282	608	Madison
282	715	Crescent Lake
283	414	Milwaukee (cell)
283	608	Madison
283	715	Eau Galle
284	414	Port Washington
284	608	Madison
284	715	Black River Falls
285	414	Belgium
285	715	Arkansaw
286	715	Augusta
287	414	Milwaukee
287	715	Eleva
288	414	Milwaukee
288	715	Eagle Point
289	414	Milwaukee
289	715	Cadott
291	414	Milwaukee
293	414	Neshkoro
294	414	Green lake
294	715	Osceola
295	414	Princeton
296	414	Bergen
296	608	Westfield
297	414	Milwaukee
297	608	Montello
298	414	Milwaukee
299	414	"
321	414	"
322	414	Milwaukee (cell)
322	715	Glen Flora
323	414	Milwaukee (cell)
323	608	Arcadia
324	414	Waupun
324	608	Monroe
324	715	Pembine
325	414	Milwaukee
325	608	Monroe
325	715	Wisconsin Rapids
326	414	Randolph
326	608	Praire du Chien
327	414	Milwaukee
327	715	Frederic
328	414	Milwaukee
328	608	Monroe
329	608	Monroe
330	414	ANAC (most areas)
332	414	Milwaukee
332	715	Soo Lake
333	414	Milwaukee
333	715	Merrillan
334	414	West Bend
334	715	Fairchild
335	414	West Bend
335	715	Plainfield
336	414	De Pere
336	715	Goodman
337	414	De Pere
337	608	Ontario
338	414	West Bend
339	414	De Pere
341	414	Milwaukee
341	715	Stevens Point
342	414	Milwaukee
342	608	Platteville
342	715	Stevens Point
343	414	Milwaukee
344	414	Milwaukee
344	715	Stevens Point
345	414	Milwaukee
345	715	Stevens Point
346	414	Brandon
346	715	Stevens Point
347	414	Milwaukee
348	414	Cambria
348	608	Platteville
349	414	Hustisford
349	608	Platteville
349	715	Siren
351	414	Milwaukee
352	414	Milwaukee
352	715	Edgar
353	414	Milwaukee
353	715	Weyerhauser
354	414	Milwaukee
354	715	Birchwood
355	414	Milwaukee
355	608	Madison
355	715	Wausau
356	608	Baraboo
356	715	Minoqua
357	414	Milwaukee
357	715	Almena
358	414	Milwaukee
359	414	Milwaukee
361	414	Berlin
362	414	Milwaukee

The rest will be in upcoming issues.

The current method of dialing into a DMS from a remote site consists of the following steps:

1. Place the call.
2. Receive an answer tone.
3. Send an originate tone (they press the DATA button).
4. Initiate login by entering <break> login.
5. Supply the required user identification (userID) and password.

Once the userID and password are verified, the remote user can access the system. If the userID or password, or both, are incorrect, access is not allowed. The knowledge of a userID and password allows anybody to gain access to a DMS switch. Feature BC1043 (Automatic Dial-Back) eliminates this possibility by providing a second level of security. (yeah right)

After a remote user logs in, the system disconnects the modem. It then calls the user back and the remote user is required to log in again. Only after this second login is the user allowed access to the DMS. A remote user knowing a dial-back ID and password is not able to access the system unless the call originates from the correct remote site.

Descriptions and an Example Dial-Back table
~~~~~~

ID	DIRNUM	MISCINFO
HARRYPHREAK	958 0010	1234 MIZAR ST COSMOS

ID = Remote userID (up to 16 alphanumeric characters)
DIRNUM = The Dial-Back number, this is the number the DMS calls. It
         can also have other parameters listed like wait for dial-tone
         etc.
MISCINFO = Any miscellaneous info. Example: physical location of the
           dial-back number or address.
(this is how it looks in the DMS computers, they can encrypt it also)

The Dial-Back Process
~~~~~~~~~~~~~~~~~~~~~~~

The special dial-back login sequence is performed only if the correct hardware and firmware are available and the dial-back flag associated with the modem is set.

The first login is a special dial-back login which requires a dial-back ID and password. The second login is the normal login currently used to gain access to the system. The passwords associated with the dial-back ID's are assigned and maintained by the operating company. Passwords are required to have a minimum length.

After the dial-back ID and password are obtained, the modem is disconnected and the remote user is expected to hang up. A brief explanatory message is displayed before the disconnect. A random number of garbage characters can appear on the user's terminal due to the disconnect. This is expected and is no cause for alarm. No attempt is made to inform the user whether the ID and password which were entered were correct. A person trying to break into the system would not immediately know whether he was successful. If the attempt is successful (a correct ID and password pair entered), a dial back is performed.

After a short delay [80 to 240 seconds] to allow the originator to

hang up the line and set up the modem, the system then begins to dial out on a second modem using the *directory number (DIRNUM) associated with the dial-back ID that the user first entered. There is a one-to-one mapping between dial-back ID's and the DIRNUM* (that is, the *DIRNUM is a function of the dial-back ID).* The manner at which this number is determined provides an indirect level of security since the called number (the one the *system calls) is not the* calling number (the number of the remote site) unless *the proper dial-back ID is* entered.

Once the call is connected, the following message is displayed and the user is automatically prompted to login:

DIALBACK COMPLETE

It is important that the user does not hit the break key in order to obtain the logon prompt as this reinitiates the dial-back sequence and causes the automatic login to abort.
/-/-/-/-/-/-/-/-/-/-/-/-/-/-/-/-/-/\ multiPLX /\-\-\-\-\-\-\-\-\

Pay phone of the future is here

Here is a look at Ameritech's new hi-tech pay phone introduced last year:

» The nation's first computer docking station, which allows customers to plug in and hack.. er..communicate right from their laptops.
» Fax machines at pay phones that allow customers to send and recieve fax messages
» Enhanced directory assistance

But, we'll probably never see it.

Liars of the Month →
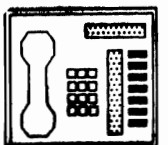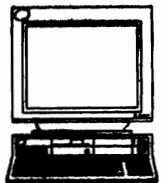
    First off, lets take a look at what signaling systems do. All they really do is tell the central office what the status of the trunks (lines) running between two central or toll or international offices are up to.

    Types of Register Signaling Systems

- Three-Phase Multifrequency (MF) pulsing

- MF Compiled (MFC) R2 signaling
  Used under DMS-300 toll switching systems.

- MF Packet Pulsing (MFPP), type 2   (MFPP-2)
  Used for Confederation of Independent States (CIS) network for   .
  incoming toll calls to a DMS that is replaced as CIS automatic
  intercity telephone exchange (AMTC-2, 3), toll exchanges.

- R1 Modified Signaling

- E and M Signaling

- MF Pulsed Signaling
  Used only in China.

- MFC R2 Signaling
  Used by World Systems DMS-100 and DMS-200 switching systems and any
  system using the Chinese version of CCITT R2 signaling.

- Socotel compelled trunk register signaling
  Used by World Systems DMS-100 -200 systems.

- MF Packet Pulsing, type 1 (MFPP-1)
  Used for CIS network between local outgoing and toll incoming
  AMTC-KE (electronic) tandem DMS-100 -200I (international) switches.

- Hybrid register signaling
  Supports more than one register signaling system for a trunk in
  order to provide switching and ANI information.
--///////////////
CIS Networks

    There are four types of register signaling in the CIS network, as shown in figure 1.

- Decadic
- MF Shuttle
- MFPP-1 (MF11, MF6)
  MFPP type 1 (MFPP-2) 700/1100 Hz

Frequency combinations in the CIS network--------||
                                                 | |
Signal   Frequencies (Hz) | |

MF1   700 + 900
MF2   700 + 1100   Note: The duration of each
MF3   900 + 1100   frequency combination
MF4   700 + 1300   is 50 ms (+- 5 ms)

```
MF5                             ̇ ̇ ̇ ̣
MF6                   1100 + 1300        The duration of each
MF7                   700 + 1500         pause between MF signals
MF8                   900 + 1500         is 60 ms (+- 5 ms)
MF9                   1100 + 1500
MF10                  1300 + 1500
MF11                  700 + 1500
```

Forward Signals (transmitted)
~~~~~~~~~~~~~~~~~

MF1 - MF10 are digits (i.e. the phone number your calling, note these
are not touch-tones)

Backward Signals (received)
~~~~~~~~~~~~~~~~~

```
MF2              Request ANI (Automatic Number Identification)
700 Hz           Congestion
1100 Hz          Release register or wait for operator answer, 100 ms
```
---/////////////////

Tons of people have written stuff on R1 signaling. I won't go into it
here unless you want me to. R2 is the latest rage so I'll write
something about next month. For now here is a comparison of features
for R1 and R2 signaling systems.

System		Forward Signals Number	Forward Signals Freqs	Backward signals Number	Backward signals Freqs	Two way
CCITT/R1 North American	Reg. Sig.	15	700, 900, 1100, 1300 1500, 1700 Hz	none	none	yes
	Line Sig.		2600 In-Band		2600	
CCITT/R2	Reg. Sig.	15	1380, 1500, 1620, 1740, 1860, 1980 Hz	30	540, 660, 780, 900, 1020, 1140	yes
	Line Sig.		3825 Out-Band		3825 Out-Band	

Signaling System: CCITT/R1
~~~~~~~~~~~~~~~~~~~~

North American Plan with register signals that use MF pulse signaling,
link-by-link signaling, mode of signal transmission-enbloc,
non-overlap signaling by the out-going registers, overlap signaling by
transit registers. Line signal by link-to-link.

Signaling System CCITT/R2
~~~~~~~~~~~~~~~~~~~~

Register signals that are MF spontaneous compelled signaling
ene-to-end signaling, overlap signaling by the originating registers.
Line signals by link-to-link signaling.
    The performance of the entire network can be enhanced if the span
of control is increased. One way is called- "originating register
control", or end-to-end signaling. The most common is the CCITT R-2
plan.
    In this arrangement, the toll call enters a register type office
at the local exchange or at a transmit point of higher rank. The first
register system then assumes control and after establishing a suitable

route, initiates its hail and waits for the acknowledgement from the
next exchange. This acknowledgement is in the form "send the next
digit" or "send the next group of ---- digits" The digits requested
are just sufficient for the next exchange to complete its own
switching functions. When this is done, the next exchange selects a
trunk, initiates a hail, and cuts through. When the response is
returned, it is received by the originating register, which then
spills exactly as many digits as requested. This process is completed
until the called exchange is obtained, which requests the group of
digits which identifies the called line.

Comparison of R1 & R2
~~~~~~~~~~~~~~~~~~~~~~~

+> R1 imposes a shorter holding time upon the first register, but
   holds   trunks longer on non-successful calls.

+> Transit exchanges often are vary simple with R2, but are quite
   complex with R1.

+> R1 is faster when everything works properly, but R2 returns
   information about difficulties and is better when failure modes are
   involved.
   _ -/////////////////////

List of DMS switch types

     First you should know that DMS stands for "Digital MultiPLXing
System" and is manufactured by Northern Telecom up in Canada. Northern
Telecom sells direct to the public, so anyone can buy a DMS and start
their own phone company. Three million dollars, minimum.

DMS-100   Local end office
DMS-200   Toll office
DMS-100/200   Combined Local/Toll
DMS   TOPS Traffic Operator Position System
DMS-300   International gateway for North America
DMS-250   Tandem switch for common carriers (i.e. Schneider LD)
DMS   ISDN, Integrated Services Digital Network

Coming this Summer!   (maybe)

Cyber 'Zine Pirate TV Station (HACKTV-6)
Digital Cyber 'Zine
More Pages! Longer Delays!   sorry.

STAFF AND A HALF

multiPLX   Editor-in-Chief
FOTON FANTOM   Causing trouble and making me lose my backdoor accounts
My new computer   Finally

Here is what the one-time encryption schemes look like that the
military uses. They are usually used only one day so their security
isn't compromised. Ambush your local Army platoon for more info.

```
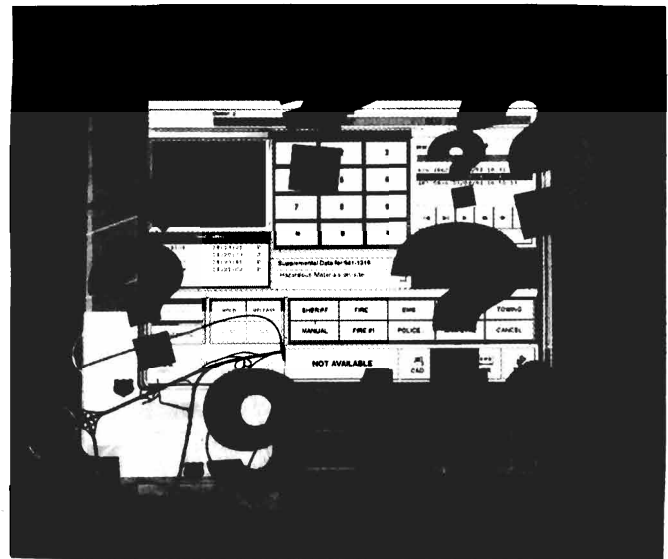      0    1    2    3   4   5    6   7   8   9
A   XSCV UWQ  PTG  LF  IN  MHE  BK  JR  MY  OD
B   TABY DMS  QUR  GR  LC  EIO  PR  HV  NW  FX
C   OJAV QBH  MTD  RL  EK  XGS  NY  CF  UW  IP
D   VLSP KWC  DBO  TM  RF  IGE  NY  AU  JQ  XH
E   KETM UBW  ONX  QD  JF  SRH  AI  GL  VP  YC
F   GSBX EQC  UVH  LW  YO  PTR  FD  KS  NA  IM
G   VRXE TAN  YHL  GS  FI  PUW  MQ  OD  CJ  BK
H   WFOI DHR  PYS  CN  KV  MLU  QE  GT  XA  BJ
I   GICA TRM  JLU  DF  KB  SOW  HV  PQ  NE  XY
J   PGSB KLO  EVY  MT  DR  CNW  JF  IQ  UX  HA
K   XAGY FDJ  RHN  QL  WK  OVT  PM  UB  CE  IS
L   BGVA YMW  PXR  FD  TL  JHQ  CS  NK  IO  UE
M   PDSG ICX  TJH  YO  QL  BNW  ER  UM  KF  AV
O   XNPV IFG  KLY  DM  ST  CEU  RQ  JH  BA  WO
P   ACEU FPQ  HMW  XT  RL  SIB  JV  KY  OD  GN
Q   GXLW NSQ  UOK  JA  FR  VIC  TB  PD  YE  MH
R   GDYP RTQ  LFJ  IC  MO  SKE  UN  XB  HW  VA
S   NERF DTH  YLQ  VA  MG  PUI  JX  WC  KB  QS
T   QVTF EIR  UYL  JK  DH  MXP  BA  NO  CW  SG
U   VLUG DFK  BEN  RA  WI  OCM  HY  JX  PS  QT
V   HDCE QMY  TLS  NR  UA  KPX  OJ  GB  WI  VF
W   BYEP HJV  LOM  NQ  CX  AWR  TG  FD  SI  UK
X   RBKH ATC  LFY  NP  XD  VJG  US  IO  EW  QM
Y   OMCT XHV  XPR  ID  WQ  USE  LY  KJ  GB  AF
```

DAY 01   KTC1456 G
     FOR OFFICAL USE ONLY

CIS

Registers in a typical CIS Network