## OPERATOR INTERVENTION DIALING PROCEDURES IN USE AS OF DECEMBER 1990

| NPA Codes | 401 | 402 | 403 | 404 * | 405 | 406 | 407 | 408 | 409 | 412 | 413 | 414 | 415 * | 416 * | 417 | 418 | 419 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 512 * | 513 | 514 | 515 | 516 | 517 | 518 | 519 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 + 7 Digit HNPA calls | x | x | x | | x | x | x | | x | x | x | x | | | x | x | x | x | x | x | x | x | x | x | x | | | x | x | x | x | x | x | |
| 0 + 7 Digit HNPA calls with timing | | | | | | | | | | | | x | | | | | | | | | | | | | | | | | | | | | | |
| 0 + 10 Digit HNPA calls | | | | x | | | | x | | | | | x | x | | | | | | | | | | | | | x | | | | | | | |
| 0 + 10 Digit FNPA calls | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |

## PERMISSIVE OPERATOR INTERVENTION DIALING PROCEDURES AS OF DECEMBER 1990

| NPA Codes | 401 | 402 | 403 | 404 * | 405 | 406 | 407 | 408 | 409 | 412 | 413 | 414 | 415 * | 416 * | 417 | 418 | 419 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 512 * | 513 | 514 | 515 | 516 | 517 | 518 | 519 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 + 7 Digit HNPA calls | | | | | | | | x | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 + 7 Digit HNPA calls with timing | | | | | | | | | | | | | x | | | | | | | | | | | | | | | | | | | | | |
| 0 + 10 Digit HNPA calls | | | x | | | | x | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 + 10 Digit FNPA calls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

(*) Indicates interchangeable CO codes

## MANDATORY DIALING PROCEDURES IN USE AS OF DECEMBER 1990

| NPA Codes | 601 | 602 | 603 | 604 | 605 | 606 | 607 | 608 | 609 | 612 | 613 | 614 | 615 | 616 | 617 | 618 | 619 | 701 | 702 | 703 | 704 | 705 | 707 | 708 | 709 | 712 | 713 | 714 | 715 | 716 | 717 | 718 | 719 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | * | | | | | | | * | | | | | | | | | | | * | * | | | * | | | (2) | (1) | | | | * | |
| 7 Digit Home NPA calls | | | | | | | | | x | | | | | | | | x | | | | | | | x | | | | x | | | | x | |
| 7 Digit only non-toll NNPA calls | x | x | x | x | x | x | x | x | | x | x | x | x | x | x | x | x | x | x | x | x | x | x | | x | x | x | | x | x | x | | x |
| 1 + 7 Digit NNPA toll Calls | x | | x | x | x | x | x | x | | x | x | x | x | x | x | x | x | x | x | x | | x | x | | x | x | x | | x | x | x | | x |
| 1 + 7 Digit NNPA calls with timing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 + 10 Digit NNPA toll calls | | x | | | | | | | | | | | | | | | | | | x | x | | | | | | | | | | | | |
| 1 + 10 Digit all NNPA calls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 Digit NNPA calls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 Digit FNPA calls (MEA) | | | | | | | | | | | | | | | | | | | | x | | | | | | | | | | | | | |
| 1 + 10 Digit FNPA | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |

## PERMISSIVE DIALING PROCEDURES IN USE AS OF DECEMBER 1990

| NPA Codes | 601 | 602 | 603 | 604 | 605 | 606 | 607 | 608 | 609 | 612 | 613 | 614 | 615 | 616 | 617 | 618 | 619 | 701 | 702 | 703 | 704 | 705 | 707 | 708 | 709 | 712 | 713 | 714 | 715 | 716 | 717 | 718 | 719 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | * | | | | | | | * | | | | | | | | | | | * | * | | | * | | | | (1) | | | | * | |
| 7 Digit Home NPA calls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 Digit only non-toll NNPA calls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 + 7 Digit NNPA toll Calls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 + 7 Digit NNPA calls with timing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 + 10 Digit NNPA toll calls | | | | | | | | | | | | | | | | | | | | | | | | | x | | | | | | | | |
| 1 + 10 Digit all NNPA calls | | | | | | | | | x | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 Digit NNPA calls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 Digit FNPA calls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 + 10 Digit FNPA (MEA) | | | | | | | | | | | | | | | | | | | | x | | | | | | | | | | | | | |

MEA: Metropolitan Exchange Area
(*): Indicates interchangeable CO codes

(1) 714 NPA - interchangeable codes scheduled for 7/1/91 (See IL 91/03-009)
(2) 713 NPA - interchangeable codes scheduled for 3/8/92 (See IL 91/05-035)

## MANDATORY DIALING PROCEDURES IN USE AS OF DECEMBER 1990

| NPA Codes | 801 | 802 | 803 | 804 | 805 | 806 | 807 | 808 | 812 | 813 | 814 | 815 | 816 | 817 | 818 | 819 | 901 | 902 | 903 | 904 | 906 | 908 | 912 | 913 | 914 | 915 | 916 | 918 | 919 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | * | | | | * | | | * | (1) | | | | | | * |
| 7 Digit Home NPA calls | | | | | x | | | | | | | | | | x | | | | | | | x | | | x | | | | |
| 7 Digit only non-toll HNPA calls | x | x | x | x | x | x | x | x | x | x | x | x | x | x | | x | x | x | x | x | x | | x | x | x | x | x | x | x |
| 1 + 7 Digit HNPA toll Calls | x | x | x | x | x | x | x | x | x | x | x | x | x | x | | x | x | x | | x | x | | x | x | x | x | x | x | |
| 1 + 7 Digit HNPA calls with timing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 + 10 Digit HNPA toll calls | | | | | | | | | | | | | | | | | | | x | | | | | | | | | | x |
| 1 + 10 Digit all HNPA calls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 Digit HNPA calls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 Digit FNPA calls (MEA) | | | | | | | | | | | | | | x | | | | | | | | | | | | | | | |
| 1 + 10 Digit FNPA | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |

## PERMISSIVE DIALING PROCEDURES IN USE AS OF DECEMBER 1990

| NPA Codes | 801 | 802 | 803 | 804 | 805 | 806 | 807 | 808 | 812 | 813 | 814 | 815 | 816 | 817 | 818 | 819 | 901 | 902 | 903 | 904 | 906 | 908 | 912 | 913 | 914 | 915 | 916 | 918 | 919 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | * | | | | * | | | * | | | | | | | * |
| 7 Digit Home NPA calls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 Digit only non-toll HNPA calls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 + 7 Digit HNPA toll Calls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 + 10 Digit HNPA calls with timing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 + 10 Digit HNPA toll calls | | | x | | | | | | | x | | | | | | | | | | x | | | x | | | | | | x |
| 1 + 10 Digit all HNPA calls | | | | | | | | | | | | | | | | | | | | | | x | | | x | | | | |
| 10 Digit HNPA calls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 Digit FNPA calls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 + 10 Digit FNPA (MEA) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

MEA: Metropolitan Exchange Area
(*): Indicates interchangeable CO codes

(1) 912 NPA - See IL 91/05-020 for upcoming dialing pattern changes.

## OPERATOR INTERVENTION DIALING PROCEDURES IN USE AS OF DECEMBER 1990

| NPA Codes | 801 | 802 | 803 | 804 | 805 | 806 | 807 | 808 | 812 | 813 | 814 | 815 | 816 | 817 | 818 | 819 | 901 | 902 | 903 | 904 | 906 | 907 | 908 | 912 | 913 | 914 | 915 | 916 | 918 | 919 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | * | | | | * | | | | * | | | | | | | * |
| 0 + 7 Digit HNPA calls | x | | x | x | | x | x | | x | x | x | x | x | x | | x | x | x | | x | x | x | | x | x | x | x | | x | |
| 0 + 7 Digit HNPA calls with timing | | | | | | | | x | | | | | | | | | | | | | | | | | | | | | | |
| 0 + 10 Digit HNPA calls | | x | | | x | | | | | | | x | | | x | | | | x | | | | x | | | | | x | | x |
| 0 + 10 Digit FNPA calls | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |

## PERMISSIVE OPERATOR DIALING INTERVENTION PROCEDURES AS OF DECEMBER 1990

| NPA Codes | 801 | 802 | 803 | 804 | 805 | 806 | 807 | 808 | 812 | 813 | 814 | 815 | 816 | 817 | 818 | 819 | 901 | 902 | 903 | 904 | 906 | 907 | 908 | 912 | 913 | 914 | 915 | 916 | 918 | 919 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | * | | | | * | | | | * | | | | | | | * |
| 0 + 7 Digit HNPA calls | | | | | x | | | | | | | | | | | | | | | | | | | | | | | x | | |
| 0 + 7 Digit HNPA calls with timing | | | | | | | | | | | | | | | x | | | | | | | | | | | | | | | |
| 0 + 10 Digit HNPA calls | | | x | | | | | | | x | | | | | | | | | | x | | | | x | | | | | | |
| 0 + 10 Digit FNPA calls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

(*) Indicates interchangeable CO codes

## Attachment 2

**AT&T prices for reprogramming and updating of AT&T PBXs to accommodate INPA**

Source: AT&T Consultant Exchange (newsletter), December, 1992, pp. 16-17.

# AT&T ready for numbering plan changes

Changes in the North American Numbering Plan (NANP) are scheduled to take effect January 1, 1995. The proposed changes will affect every user, carrier, and PBX manufacturer. AT&T is the first PBX vendor to announce alternatives to help clients accommodate these proposed changes.

**Proposed Changes**

The growth in telecommunications services and applications such as cellular telephones, personal communications, and facsimile has forced the changes in the numbering plan. North America has exhausted all area codes and is running out of Carrier Identification Codes (similar to the 10ATT used to ensure AT&T is the carrier for calls made from payphones).

Bellcore, the administrator of the NANP, has proposed specific format changes and a longer-term, 30-year strategy across World Zone 1, which includes the United States, Canada, Bermuda, and the Caribbean Islands. The biggest change concerns the current area code format. Bellcore proposes that the middle digit of area codes no longer be restricted to 1 or 0. This opens 640 new interchangeable Numbering Plan Areas (NPAs). The use of these new NPAs is currently under review, but they will be targeted for geographic and nongeographic use, along with special service offerings and other future needs.

Another area of concern is Carrier Identification Codes (CICs), which currently use the 10-XXX format. CICs are approaching exhaustion due to the increase in common carriers. Bellcore proposes changing to a 101-XXXX format (note the four Xs) to accommodate additional CIC assignments.

Finally, Bellcore is proposing a longer-term strategy that may eventually lead to uniform 10-digit dialing and eliminate the 1+ prefix for all calls. No specific timeframe has been established to implement this concept since it will require further evaluation and industry agreement.

**How AT&T Will Help**

AT&T will provide a broad scope of NANP options and upgrade alternatives to clients who have System 75s, System

*Continued on next page*

# AT&T ready

*Continued from page 16*

85s, DEFINITY® Systems G1 and G2, and DIMENSION® Systems. "We want the solution that our clients select to be the very best solution for them," says Woody Ritchey, AT&T product marketing division manager. "To make this possible, we are offering a variety of options."

In support of the proposed NANP changes, AT&T clients will have a choice of the following options:

- Select a new "n" release software modification within their existing PBX platforms. This release applies to System 75, System 85, and DEFINITY System G1.1.
- Migrate along the appropriate upgrade path to a DEFINITY System G3i, G3r, or G2.2. These releases all support NANP changes via the World Class Routing feature. (See the October 1992 *Consultant Exchange* for details about the G3 releases; and the February 1992 *Consultant Exchange* for details about the G2.2 release.)

For the DEFINITY System G2.1, a software upgrade to a G2.2 will provide NANP support via World Class Routing. DEFINITY System G2.2 software will also be modified to support the Release 2 Call Management System. This modification is scheduled to be available third quarter 1993.

Clients with DIMENSION Systems will be provided NANP support where technically feasible. Of the 15 Feature Packages (FPs), 12 will be modified with software changes only, while the remaining three involve hardware and software changes.

For clients with DEFINITY Systems G3s, G3i, G3r, and G2.2, World Class Routing (WCR) will accommodate all of the proposed NANP changes.

However, WCR does much more than resolve the NANP changes. Among a host of WCR advantages is its ability to lessen toll fraud by screening calls on more digits than previous software releases. And the DEFINITY Systems G3 and G2.2 have increased processing power, which pays off with many advanced applications, such as computer telephone integration. Also, WCR provides additional routing flexibility for specific application requirements.

Clients are pleased with the NANP options that AT&T has offered. "The options are right on target," says Sally York, president of the National DEFINITY Users Group. "It is exactly what we've been asking for—AT&T is listening."

The following table summarizes all prices and availability dates for the changes needed for each AT&T system.

## NANP Changes for AT&T Systems

| System | Release | Change Needed | Cost | Availability |
|---|---|---|---|---|
| DEFINITY G1.1 | | G1.1n software only | $1,500 | 8/93 |
| System 75 | R1V1 | Hardware/R1V3n software | $5,000 | 7/93 |
| | R1V2 | R1V3n software only | $4,000 | 7/93 |
| | R1V3 | R1V3n software only | $4,000 | 7/93 |
| DEFINITY G2.1 | | Modified G2.2 software[1] | $6,500 | 11/92 |
| System 85 | R1V1 | Case-by-case[2] | | |
| | R2V1-R2V3 | Hardware/R2V4n software | $12,000 | 1/94 |
| | R2V4 | R2V4n software only | $6,500 | 1/94 |
| DIMENSION | FP 1-3, 5, 9 | Software only | $2,500 | 1/94 |
| | PRELUDE | Software only | $5,000 | 1/94 |
| | FP 15 | Software only | $7,500 | 1/94 |
| | FP 8.1-8.3, 11, 12 | Software only | $15,000 | 1/94 |
| | FP 4, 7, 10 | FP upgrade[3] | Case-by-case[2] | 1/94 |

1. ACD enhancements at additional cost
2. Contact the client's account team
3. Based on hardware availability

## CERTIFICATE OF SERVICE

I, Jo Ann Stephens, a secretary in the law firm of Gardner, Carton & Douglas, certify that I have this 24th day of February, caused to be sent by first-class U.S. mail, postage-prepaid, a copy of the foregoing REPLY COMMENTS OF AD HOC TELECOMMUNICATIONS USERS COMMITTEE to the parties on the attached list.

Jo Ann Stephens

Jo Ann Stephens

SERVICE LIST

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302 W. Washington Street, Room E306
Indiana Government Center South
Indianapolis, Indiana 46204
*Joint comments/concerns of the Indiana Regulatory Commission w/ members of the Ameritech Regional Regulatory Committee

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Cellular Telecommunications Industry Association
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Washington, DC 20036

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c/o Dow, Lohnes & Albertson
1255 23rd Street
Washington, D.C. 20037

Digital Equipment Corporation
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Littleton, MA 01460-1289

Elkhart Telephone Company, Inc.
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Elkhart, Kansas 67950

David D. Filice
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San Jose, CA 95150-5754

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Irving, TX 75015-2092

Los Angeles County
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Downey, CA 90242

McCaw Cellular Communications, Inc.
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2400 N. Glenville Dr.
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New York Department of Public Service
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H.P. Oakes
6780 E. Cedar Ave., #402
Denver, CO 80224

Pacific Bell
Room 2 South 155
2600 Camino Ramon
San Ramon, CA 94583

Prodigy Services Company
445 Hamilton Ave.
White Plains, NY 10601

Siemens Stromberg-Carlson
900 Broken Sound Parkway
Boca Raton, FL 33487

Southwestern Bell Corporation
One Bell Center
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St. Louis, Missouri 63101

Telecommunications Services of Trinidad & Tobago, Ltd.
P.O. Box 917, 54 Frederick Street
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Teleglobe Canada, Inc.
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United States Telephone Association
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