## 3.4 Number Portability Administration Center (NPAC)

No new requirements.

## 3.5 Operations Systems Impacts

No new requirements.

## 3.6 Operator Service Systems

No new requirements.

## 3.7 Customer Premises Equipment (CPE) and User Equipment Needs and Impacts

No new requirements.

## 3.8 Wireless Service Providers

No new requirements.

## 3.9 Security Issues

No new requirements.

## 3.10 General Network Capacity Impacts

No new requirements.

# 4. FEATURE REQUIREMENTS

## 4.1 Data Structures

No new requirements.

## 4.2 SCP LNP Application Processing Requirements

No new requirements.

## 4.3 LNP Global Title Translation Function

No new requirements.

## 4.4 Operator Services Support Functions

No new requirements.

## 4.5 Errors and Exceptions

No new requirements.

## 4.6 Signaling and Protocol Requirements for Interfaces

No new requirements.

## 4.7 Hardware Interface Requirements

No new requirements.

## 4.8 Operations, Administration, Maintenance and Provisioning Requirements

No new requirements.

## 4.9 Initialization and Recovery Requirements

No new requirements.

## 4.10 Capacity, Performance and Reliability Requirements

No new requirements.

# 5. OPEN ISSUES

The Maryland Team has prepared this set of requirements under the assumption that any minor changes that could be accommodated for a 2nd Quarter vendor release of LNP would be reflected in the original document or in the requirements section above. Those needs that could not be accommodated for a 2nd Quarter vendor release are shown under the Open Issues section.

Bell Atlantic has identified the following issues that must be resolved to their satisfaction prior to implementation of LNP within the Bell Atlantic territory. Bell Atlantic is currently working with Bellcore and several other companies to address/resolve these issues via the Bellcore Generic Requirements process. The issues are noted here for completeness in the MD Requirements document. Detailed requirements addressing these issues will be documented in Bellcore requirements.

1) A mechanism is needed to limit the number of queries for calls to non-ported telephone numbers (This was noted in the MD Switch Requirements).

2) BA would like to see a standard platform/trigger/service logic for LNP implementation (This was noted in the MD Switch Requirements).

3) BA would like to limit AMA recording associated with LNP queries, so that "flat rate calls" only result in switch AMA record(s) when an LNP query is performed. BA views the need to activate AMA recording on all "flat rate calls" to insure the recording of LNP queries as excessive. The existing Illinois Switching GR requirement for a switch to generate a AIN AMA record (Structure Code 220 or 221) for an LNP query when the LNP SCP database returns an AMA recording indication (i.e. the AMASlpID parameter) may be sufficient to meet this need in a Service Provider portability environment. The SCP may need to trigger billing through inclusion of an AMASlpID parameter (This was noted in the MD Switch Requirements and raised by the MD Team for inclusion as #5 in the Open Issues list for the IL SCP GR).

4) Should LNP triggers have new trigger criteria type values? If the same SCP supports services for identical 6 digit PODP trigger and LNP PODP based trigger, how can messages be distinguished? Is it a requirement that SCP LNP application must have unique SSN to differentiate from other AIN applications that may share the same SCP? (Noted by the MD Team and included as #9 in the Open Issues list of the IL SCP GR)

Issue 1.1 d1
Sept 4, 1996

# Generic

# OPERATOR SERVICES SWITCHING

## Requirements for Number Portability

## in MARYLAND

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## 1.0 Document Intent

**This document is intended to capture the requirements for Operator Services in the state of Maryland given the introduction of Number Portability in that region.**

## 2.0 Document Status and Update

**Each release of this document will carry a "Draft" status until it has been accepted by the Maryland LNP Operator Services Subteam, at which time it will be removed. Any updates to this document will cause the issue number to be incremented.**

## 3.0 Requirements

### 3.1 Generic Requirements

**It has been agreed by the Maryland LNP Operator Services Subteam that the document, "Generic Operator Services Switching Requirements for Number Portability (Issue 1.1, June 20, 1996)" will form the basis for the requirements in Maryland.**

**Concerns or changes from that document that are specific to Maryland are documented in the following section.**

### 3.2 Maryland Specific concerns and Requirements

**All currently identified issues specific to Maryland have been addressed in Issue 1.1 of the ICC OSS Requirements.**

**Last Page**

**Staff's Third Quarterly Report on the Maryland Local Number Portability Consortium**

# Appendix 6

Appendix 6

# > STATE OF MARYLAND <
# LOCAL NUMBER PORTABILITY
# ISSUE STATUS

| ISSUE NUMBER | PRIORITY | DESCRIPTION | DATE OPENED | STATUS | DATE CLOSED |
|---|---|---|---|---|---|
| 001 | High | Manner in which NPAC will handle administrative issues, such as late order delivery. | 7/10/96 | Active | |
| 002 | High | Determination of the interval for Bell Atlantic to complete the provisioning process on the first line in an NPA/NNX that is ported. | 7/10/96 | Pending Referral | |
| 003 | High | Manner in which time will be reduced for End Users to miss calls at the deployment of a ported number. | 7/10/96 | Pending Referral | |
| 004 | High | Procedure for Bell Atlantic to notify new Service Provider of cancellation of Service Order by EU | 7/10/96 | Pending Referral | |
| 005 | Medium | Process for LECs to determine TNs are available after they have been disconnected by an EU | 7/10/96 | | |
| 006 | Medium | Determination of method to be used by Bell Atlantic when analyzing troubles involved with the SCP. | 7/10/96 | | |
| 007 | Medium | Manner in which information will be disseminated on ported NXXs. | 7/10/96 | | |
| 008 | High | Operator Services impact on LNP | 7/10/96 | | |
| 009 | | Inter-network routing for LNP, SS7 SCCP messages | 7/10/96 | | |
| 010 | | Standardized announcement for LNP Cause code | 7/10/96 | | |

# MARYLAND LOCAL NUMBER PORTABILITY
## END OFFICE ROLL-OUT SCHEDULE

| ATDM CLLI | LATA | EO CLLI | EQPT | NPA/NXX | AVERAGE | RANKING |
|---|---|---|---|---|---|---|
| WASHDCSW00T | 236 | GTBGMDGBDS0 | 5E | 301/208,212,216,240,258,330,417,527,548,590, 640,670,840,869,921,926,947,948,963,975, 977,979,990, | 2.33 | 1 |
| BLTMMDCH06T | 238 | BLTMMDCHDS3 | DMH | 301/954 410/223,234,332,347,385,393,539,547,576,625, 659,727,752,783,837,895,954,986,999, | 2.67 | 2 |
| WASHDCSW00T | 236 | RKVLMDRVDS1 | 5E | 301/217,251,279,294,309,340,424,517,738,762,838 | 4.33 | 3 |
| WASHDCSW00T | 236 | LARLMDLRDS0 | 5E | 301/206,317,369,470,483,490,497,498,549,604 617,647,688,725,776,886,939,953,264,501, 619,724,792,797,834,862,880,934, | 4.67 | 4 |
| ANNPMDAN10T | 238 | ANNPMDANDS0 | 5E | 301/261,858 410/216,260,263,267,268,269,280,293,295, 626,974 | 7.67 | 5 |
| WASHDCSW00T | 236 | CHCHMDBEDS0 | 5E | 301/215,224,406,492,652,654,656,657,664,718 907,913,941,951,961,986, | 8.33 | 6 |
| BLTMMDCH06T | 238 | GLBRMDGLDS0 | 5E | 410/222,508,553,582,590,760,761,762,766,768, 787,826,863,969, | 12.67 | 7 |
| BLTMMDCH06T | 238 | TWSNMDTWDS0 | 5E | 410/410/283,307,321,324,339,373,408,473,475, 494,583,607,716,769,806,830,832,839,887, 894,938 | 14.33 | 8 |
| WASHDCSW00T | 236 | RKVLMDMRDS0 | 5E | 301/230,231,413,468,770,816,881,984,998 | 14.67 | 9 |
| WASHDCSW00T | 236 | BTHSMDWWDS0 | 5E | 301/214,295,380,493,530,564,571,803,896,897 | 17 | 10 |
| BLTMMDCH06T | 238 | CYVLMDDADS0 | 5E | 410/229,316,329,393,527,561,584,771,785 | 17.33 | 11 |
| BLTMMDCH06T | 238 | OWMLMDOMDS0 | DMH | 410/345,356,363,581,654,998 | 17.33 | 11 (12) |
| BLTMMDCH06T | 238 | BLTMMDUVDS0 | 5E | 410/235,243,338,366,467,516,554,662,889 | 19.3 | 13 |
| WASHDCSW00T | 236 | LNHMMDLNCG0 | 1AE | 301/243,306,459,552,577,731,794,918 | 20.33 | 14 |
| BLTMMDCH06T | 238 | CLMAMDCBDS0 | 1AE | 301/596,621,629,973 410/715,720,730,740,748,884,964,992,995,997 | 21.67 | 15 |
| WASHDCSW00T | 236 | HYVLMDHYDS0 | DMH | 301/209,239,277,403,436,454,532,699,799,851, 852,864,887,927,985, | 23.67 | 16 |
| WASHDCSW00T | 236 | SLSPMDSSDS0 | 5E | 301/608 | 25 | 17 |

## MARYLAND LOCAL NUMBER PORTABILITY
## END OFFICE ROLL-OUT SCHEDULE

| ATDM CLLI | LATA | EO CLLI | EQPT | NPA/NXX | AVERAGE | RANKING |
|---|---|---|---|---|---|---|
| WASHDCSW00T | 236 | SLSPMDSSCG0 | 1AE | 301/285,427,495,565,585,587,588,589,650,819,930 | 25.33 | 18 |
| BLTMMDCH06T | 238 | CLMAMDOBDS0 | 5E | 301/310,596,621 | 25.67 | 19 |
| | | | | 401/290,309,312,381,505,720,995 | | |
| WASHDCSW00T | 236 | SLSPMDCVDS0 | 5E | 301/236,384,421,476,622,625,680,879,885,940,989 | 26.33 | 20 |
| BLTMMDCH06T | 238 | BLTMMDCHDS2 | 5E | 410/209.244.328.333.359.361.396.528.545.605. | 26.33 | 20 (21) |
| | | | | 637,685,706,736,962, | | |
| BLTMMDCH06T | 238 | PIVLMDPKDS1 | DMH | 410/318,358,415,484,486,602,653,764 | 27.67 | 22 |
| WASHDCSW00T | 236 | CLPKMDBWDS0 | 5E | 301/207,220,286,303,308,329,344,345,397,409 | 28.33 | 23 |
| | | | | 441,474,489,506,507,510,513,614,615,708, | | |
| | | | | 709,732,901,914,982, | | |
| WASHDCSW00T | 236 | LDVRMDLODS0 | 5E | 301/314,322,341,386,405,618,772,773,883,925 | 28.67 | 24 |
| BLTMMDCH06T | 238 | ELCYMDELDS0 | DMH | 410/203,313,418,461,465,750,992 | 28.67 | 24 (25) |
| WASHDCSW00T | 236 | BTVLMDBVDS0 | 5E | 301/394,572,586,595,847,890,902,931,937 | 29.33 | 26 |
| BLTMMDCH06T | 238 | BLARMDBLDS0 | 5E | 410/399,588,638,803,836,838,877,879,893 | 29.33 | 26 (27) |
| WASHDCSW00T | 236 | WDRFMDWDDS0 | 5E | 301/374,632,638,645,705,764,818,843,870, | 29.67 | 28 |
| | | | | 893,932, | | |
| BLTMMDCH06T | 238 | BLTMMDWLDS0 | 5E | 410/327,342,550,558,614,732,955 | 32 | 29 |
| WASHDCSW00T | 236 | GMTWMDGNDS0 | 5E | 301/353,428,515,540,601,903,916,972 | 32.67 | 30 |
| BLTMMDCH06T | 238 | CYVLMDCKDS0 | 5EH | 410/252,453,560,561,628,666,667,683 | 33 | 31 |
| BLTMMDCH06T | 238 | ARBTMDARDS0 | DMH | 410/204,242,247,368,389,395,525,536,587 | 33.67 | 32 |
| | | | | 644,646,737,743,759,801.906, | | |
| BLTMMDCH06T | 238 | CTVLMDCTDS0 | DMH | 410/455,719,744,747,788 | 34 | 33 |
| BLTMMDCH06T | 238 | BLTMMDCH1DD | 5E | 301/878 | 35 | 34 |
| | | | | 410/217,232,237,291,305,450,481,613 | | |
| BLTMMDCH06T | 238 | WDLWMDWLDS0 | DMH | 410/265,281,298,448,594,597,786,944,965,966 | 35.67 | 35 |
| BLTMMDCH06T | 238 | ESSXMDEXDS0 | D12 | 410/391,574,682,686,687,780 | 36 | 36 |

# MARYLAND LOCAL NUMBER PORTABILITY
## END OFFICE ROLL-OUT SCHEDULE

| ATDM CLLI | LATA | EO CLLI | EQPT | NPA/NXX | AVERAGE | RANKING |
|---|---|---|---|---|---|---|
| BLTMMDCH06T | 238 | EKRGMDELDS0 | DMH | 301/621 | 36.33 | 37 |
| | | | | 410/331,379,407,471,478,579,678,712,796, | | |
| | | | | 799,909, | | |
| BLLTMMDCH06T | 238 | WMNSMDWMDS0 | 5E | 410/386,751,840,848,857,875,876 | 36.33 | 37 (38) |
| WASHDCSW00T | 236 | WHTNMDWTDS0 | 5E | 301/929,933,942,946,949 | 37 | 39 |
| BLTMMDCH06T | 238 | EKTNMDEKDS0 | 5E | 410/392,398,620,996 | 37 | 39 (40) |
| ANNPMDAN01T | 238 | PARLMDPADS0 | 5E | 301/261,858,970 | 37.67 | 41 |
| | | | | 410/224,266,571,573,841,849,974 | | |
| BLTMMDCH06T | 238 | PKVLMDPKDS0 | DMH | 410/661,663,665,668,882 | 38.33 | 42 |
| WASHDCSW00T | 236 | STLDMDSLDS0 | 5E | 301/420,568,669,735,736,763,817,967 | 38.67 | 43 |
| WASHDCSW00T | 236 | SLSPMDSSDSS | 5E | 301/415,457,504,713,734 | 39.67 | 44 |
| BLTMMDCH06T | 238 | DNDLMDDNDS0 | 5E | 410/282,284,285,288,631,633 | 39.67 | 44 (45) |
| BLTMMDCH06T | 238 | FPATMDFRDS0 | DMH | 410/684,691,765,850,859,865,892,993 | 40.33 | 46 |
| WASHDCSW00T | 236 | BTHSMDBDDS0 | 5E | 301/299,365,469,983 | 40.67 | 47 |
| WASHDCSW00T | 236 | CPHGMDCADS0 | 5E | 301/324,336,350,499,808 | 41.33 | 48 |
| BLTMMDCH06T | 238 | BLTMMDWLCG0 | 1AE | 410/276,522,534,537,563,675 | 42 | 49 |
| WASHDCSW00T | 236 | MRBOMDMBDS0 | 5E | 301/574,627,952,741 | 43.67 | 50 |
| BLTMMDCH06T | 238 | ODTNMDONDS0 | DMH | 301/621,677,912 | 43.67 | 50 (51) |
| | | | | 410/519,551,672,674 | | |
| WASHDCSW00T | 236 | HYVLMDRIDS0 | 5E | 301/408,422,431,434,439,445,701,923,935 | 44 | 52 |
| ANNPMDAN10T | 238 | NRBHMDNEDS0 | 5E | 301/855 | 45.33 | 53 |
| | | | | 410/257,741 | | |
| WASHDCSW00T | 236 | RSTWMDRSDS0 | DMH | 410/429,526,833,861 | 45.33 | 53 (54) |
| WASHDCSW00T | 236 | BOWIMDBODS0 | 5E | 301/262,352,390,464,805 | 45.67 | 55 |
| WASHDCSW00T | 236 | TMHLMDTHDS0 | DMT | 301/238,423,505,630,702,836,894,899,981 | 45.67 | 55 (56) |
| BLTMMDCH06T | 238 | BLTMMDYKDS0 | DM2 | 410/323,372,377,393,433,435,532,617 | 45.67 | 55 (57) |

## MARYLAND LOCAL NUMBER PORTABILITY
## END OFFICE ROLL-OUT SCHEDULE

| ATDM CLLI | LATA | EO CLLI | EQPT | NPA/NXX | AVERAGE | RANKING |
|---|---|---|---|---|---|---|
| BLTMMDCH06T | 238 | SVPKMDSPDS0 | DMH | 410/410/315,431,432,541,544,647 | 46 | 58 |
| WASHDCSW00T | 236 | LXPKMDLXDS0 | 5E | 301/342,737,826,862,863 | 46.67 | 59 |
| BLTMMDCH06T | 238 | RSSNMDXRDS0 | 5E | 410/658 | 46.67 | 59 (60) |
| WASHDCSW00T | 236 | SLSPMDNWDS0 | 5E | 301/593,649,681,754,905 | 47.67 | 61 |
| WASHDCSW00T | 236 | UPMRMDCCDS0 | 5E | 301/218,249,390 | 47.67 | 61 (62) |
| BLTMMDCH06T | 238 | SYVLMDSKDS0 | DMH | 410/549,552,781,795 | 48 | 63 |
| WASHDCSW00T | 236 | CLTNMDCLDS0 | 5E | 301/599,856,868 | 49.67 | 64 |
| WASHDCSW00T | 236 | SLSPMDNBDS0 | 5E | 301/438,460,598,871 | 49.67 | 64 (65) |
| BLTMMDCH06T | 238 | BRKLMDBKDS0 | DMH | 410/354,355,636,789 | 49.67 | 64 (66) |
| WASHDCSW00T | 236 | OLNYMDOKDS0 | 5E | 301/570,774,924 | 50.33 | 67 |
| WASHDCSW00T | 236 | ALTWMDATDS0 | 5E | 301/248,297,449 | 51 | 68 |
| WASHDCSW00T | 236 | BTHSMDRPDS0 | 5E | 301/402,435,480,496,594,827 | 51 | 68 (69) |
| WASHDCSW00T | 236 | BTHSMDWADS0 | 5E | 301/227,229,320 | 51 | 68 (70) |
| WASHDCSW00T | 236 | DMSCMDDEDS0 | 5E | 301/253,391,414,482 | 51 | 68 (71) |
| WASHDCSW00T | 236 | FTWSMDCPDS0 | 5E | 301/203,292 | 51 | 68 (72) |
| WASHDCSW00T | 236 | HYVLMDCMDS0 | 5E | 301/270,559,853,891 | 51 | 68 (73) |
| BLTMMDCH06T | 238 | LPLTMDLADS0 | 5E | 301/609,753,870,932,934 | 51 | 68 (74) |
| WASHDCSW00T | 236 | MRKKMDMKDS0 | DMT | 301/210,419,425,426,705,722,738,791,813,815, 898 | 51 | 68 (75) |
| WASHDCSW00T | 236 | OXHLMDOHDS0 | 5E | 301/567,749,839 | 51 | 68 (76) |
| ANNPMDAN01T | 238 | COTNMDCRDS0 | 5E | 301/261,858<br>410/451,721,793 | 51 | 68 (77) |
| BLTMMDCH06T | 238 | ABRDMDABDS0 | 5E | 410/272,273,278,575,994 | 51 | 68 (78) |
| BLTMMDCH06T | 238 | ARMGMDARDS0 | 5E | 410/255,360,437,439 | 51 | 68 (79) |
| BLTMMDCH06T | 238 | BLTMMDEDCG0 | 1AE | 410/233,362,566,624,945,947 | 51 | 68 (80) |

## MARYLAND LOCAL NUMBER PORTABILITY
## END OFFICE ROLL-OUT SCHEDULE

| ATDM CLLI | LATA | EO CLLI | EQPT | NPA/NXX | AVERAGE | RANKING |
|---|---|---|---|---|---|---|
| BLTMMDCH06T | 238 | BLTMMDFRDS0 | DMH | 410/325,483,485,488,866 | 51 | 68 (81) |
| BLTMMDCH06T | 238 | BLTMMDHMDS0 | 5E | 410/254,319,426,444 | 51 | 68 (82) |
| BLTMMDCH06T | 238 | BLTMMDLBCG0 | 1AE | 410/351,367,466,542,578,664 | 51 | 68 (83) |
| BLTMMDCH06T | 238 | BLTMMDMDDS0 | DMH | 410/225,383,462,523,669,728,767 | 51 | 68 (84) |
| BLTMMDCH06T | 238 | CHASMDCHDS0 | 5E | 410/335,344 | 51 | 68 (85) |
| BLTMMDCH06T | 238 | CLVLMDCEDS0 | 5E | 301/596,854<br>401/531,988 | 51 | 68 (86) |
| BLTMMDCH06T | 238 | DRCRMDDCDS0 | 5E | 410/514,729,923,987 | 51 | 68 (87) |
| BLTMMDCH06T | 238 | EDWDMDEGDS0 | 5E | 410/538,612,671,676,679 | 51 | 68 (88) |
| BLTMMDCH06T | 238 | HDGRMDHVDS0 | DMH | 410/939 | 51 | 68 (89) |
| BLTMMDCH06T | 238 | NRPNMDNPDS0 | 5E | 410/388,477 | 51 | 68 (90) |
| BLTMMDCH06T | 238 | PRHLMDPHDS0 | 5E | 410/256,529 | 51 | 68 (91) |
| BLTMMDCH06T | 238 | RNTWMDRACG0 | 1AE | 410/521,655,922 | 51 | 68 (92) |

## MARYLAND LOCAL NUMBER PORTABILITY
## END OFFICE ROLL-OUT SCHEDULE

| ATDM CLLI | LATA | EO CLLI | EQPT | NPA/NXX | AVERAGE | RANKING |
|---|---|---|---|---|---|---|
| FRDRMDFR07T | 240 | FRDRMDFRDS0 | 5E | 301/293,607,619,620,624,631,662,663,682,694, | 1.67 | 1 |
| | | | | 695,696,698,815,831,836, | | |
| SLBRMDSB10T | 240 | SLBRMDSBDS1 | 5E | 410/334,341,543,546,548,742,749,824,860 | 2.33 | 2 |
| SLBRMDSB10T | 242 | SLBRMDSBDS0 | 5E | 410/219 | 3.33 | 3 |
| FRDRMDFR07T | 240 | HGTWMDHGDS0 | 5E | 301/416,665,714,733,739,745,766,790,791,797 | 4 | 4 |
| ESTNMDES07T | 242 | ESTNMDESDS0 | 5E | 410/763,819,820,822 | 4 | 4 (5) |
| ESTNMDES07T | 242 | CMBRMDCMDS0 | DMH | 410/221,228 | 5.67 | 6 |
| CMLDMDCM07T | 240 | CMLDMDCMDS0 | 5E | 301/722,724.759,777,784 | 6 | 7 |
| | | | | 304/738 | | |
| | | | | 814/767 | | |
| CMLDMDCM07T | 240 | CSTWMDCRDS0 | D12 | 301/729 | 6 | 7 (8) |
| | | | | 304/726 | | |
| CMLDMDCM07T | 240 | FSBGMDFSDS0 | 5E | 301/687,689 | 6 | 7 (9) |
| CMLDMDCM07T | 240 | OKLDMDOKDS0 | 2BE | 301/501 | 6 | 7 (10) |
| FRDRMDFR07T | 240 | WLVLMDWLDS0 | 5E | 301/845,898 | 6 | 7 (11) |
| ESTNMDES07T | 242 | CHRTMDCHDS0 | 5E | 410/778,810 | 6 | 7 (12) |
| SLBRMDSB10T | 242 | OCCYMDONDS0 | DMT | 410/524,723 | 6 | 7 (13) |