



James K. Smith
Director
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March 14, 1997

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FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF SECRETARY

Mr. William F. Caton, Acting Secretary
Federal Communications Commission
1919 M Street, NW
Room 222
Washington, DC 20554

RE: **Ex Parte Statement**
CC Docket No. 95-116

Dear Mr. Caton:

On March 13, 1997, representatives of the Common Carrier Bureau met with industry representatives to discuss local number portability costs as set forth in the attachment herein. Representing the Common Carrier Bureau were Chris Barnekov, Neil Fried, Lloyd Collier, Patrick Donovan, Lenworth Smith and John Scott. Industry representatives were Jim Smith and Brian Baldwin, Ameritech; Marie Breslin, Bell Atlantic; Gordon Maxson, GTE; Cindy Cox, Bellsouth; Alan Cort, NYNEX, Link Brown, SBC, and Alan Ciamporcero, Pacific Telesis.

Sincerely,

Attachment

cc: C. Barnekov
L. Collier
L. Smith
M. Breslin
C. Cox
L. Brown

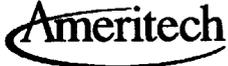
N. Fried
P. Donovan
J. Scott
G. Maxson
A. Cort
A. Ciamporcero

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A Presentation on the Costs for Implementing Long-term Number Portability

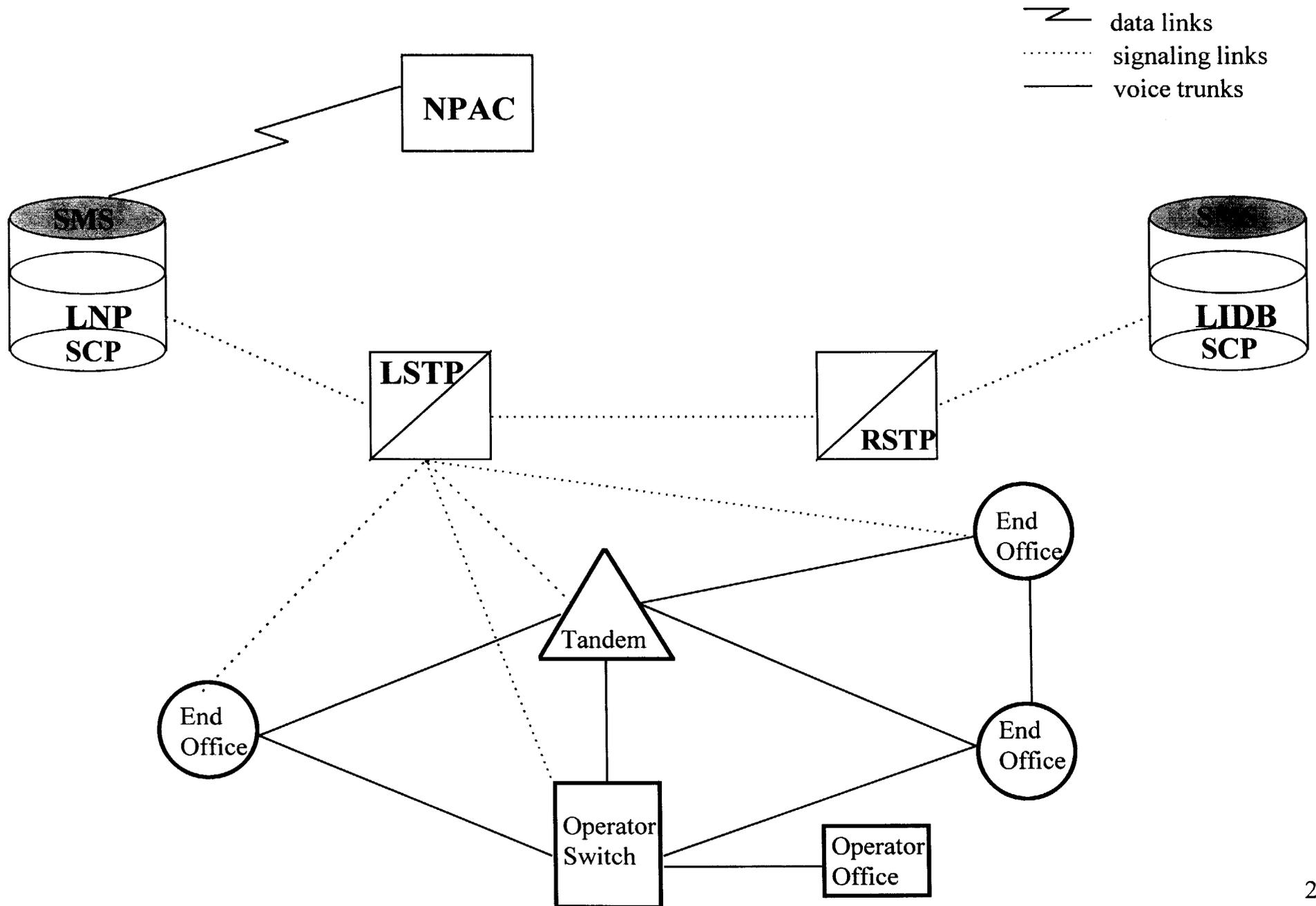
March 13, 1997

Brian Baldwin 
Technical-Regulatory Liaison

Experience in Implementing Number Portability

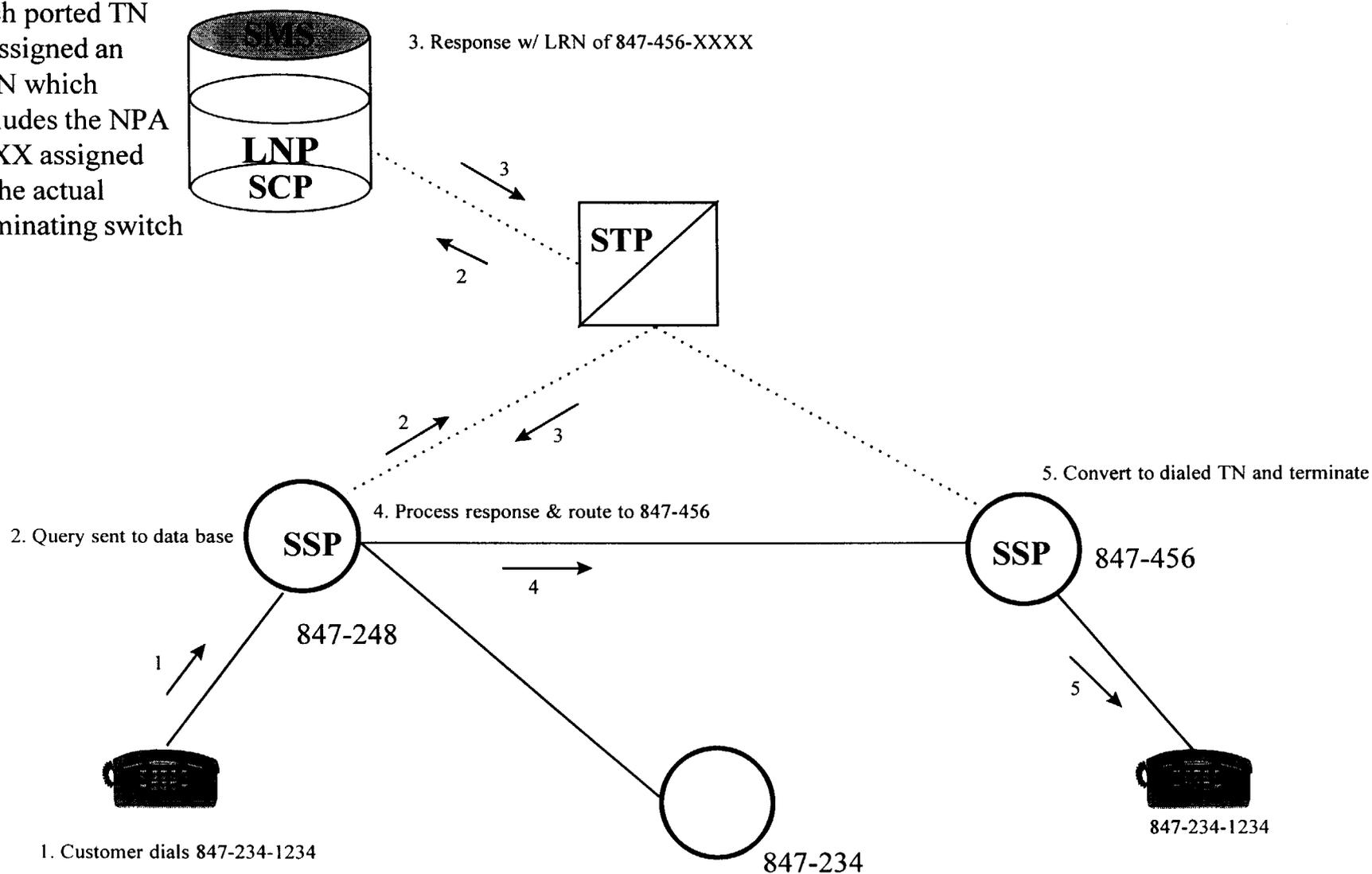
- Implementation of long-term LNP is already well underway in most regions
- Significant costs are being incurred now to modify and augment carriers' networks and support systems
- Type 1 costs pale in comparison to those incurred for the other categories
- The bulk of the costs are Type 2 - additions and modifications specifically needed for LNP
- The LNP feature is very intrusive and its implementation results in many secondary impacts
- The identification of these secondary impacts and their costs involves a discovery process and a learning curve - surprises are the norm

The Local Network in an LNP Environment



Call Processing Using the LRN Methodology

Each ported TN is assigned an LRN which includes the NPA -NXX assigned to the actual terminating switch



Major Categories of Direct, LNP-Specific Costs

- End Offices (SSPs)
 - software to support the LRN methodology
 - processor upgrades to handle AIN and originating LNP queries
 - A-link ports to handle additional query volumes
- Tandems (SSPs)
 - software to support the LRN methodology
 - A-link ports to handle additional query volume
- Operator Systems
 - software to support the LRN methodology
 - A-link ports to handle additional query volumes
 - new work stations to handle Busy Line Verification
- Local SMS/SCPs
 - new hardware and software dedicated to LNP

LNP Cost Components (continued)

- **Signal Transfer Points (STPs)**
 - A-link, B-link, C-link & D-link ports to handle additional TCAP volume
 - new hardware/software to perform additional global title translations
- **Line Information Data Base (LIDB)**
 - expansion of data fields to include new billing provider ID
- **SS7 Links**
 - significant augmentation of most of the link sets between SS7 nodes to accommodate increase of upwards of 100% in signaling traffic
- **Regional Data Base Administrator (e.g., NPAC)**
 - Type 1 costs specifically allocated to a given carrier become that carrier's Type 2 costs
 - interface to provisioning and support systems
 - data links for downloads, order processing
- **Operational Support Systems (OSS)**
 - see page 7 for descriptions

LNP Cost Components (continued)

- Translations
 - 6 & 10 digit triggers at end offices, tandems and operator switches
 - LRN assignments within each end office
 - ported number markings
 - global title translations within STPs and SCPs
 - new tables associated with LRN software

- Testing
 - individual LNP components (lab environment)
 - integrated component testing (lab environment)
 - intranetwork testing (office to office)
 - intercompany testing
 - FCC-mandated testing

- Other Costs
 - trunking additions and rearrangements
 - redesign of requirements to support existing services
 - 911 work
 - interest to advance costs
 - yet-to-be-identified costs

A Sample of Operational Support Systems Impacted by LNP

<u>OSS</u>	<u>Function</u>	<u>Changes Required</u>
March	mechanized switch translations	equip for six and ten digit triggering
NSDB/WFA	manages line attributes	provide ported in/out & billing provider ID info
LMOS/MLT	outside plant records	provide ported in/out indicators
TIRKS	manages unbundled loops	provide indicator for LNP w/unbundled loops
COSMOS/ SWITCH	manages number assignments	provide ported in/out indicators
ACIS	retail ordering & billing	process ported number orders for other carriers
SOAC	interface management to other OSS	provide new FIDS & USOCs for routing orders
ASON	service order entry screen logic	modify to include LNP attributes
SOP	feeds SOAC with routing instructions	new logic to determine flow for ported numbers
Centrex Mate	allows customers to rearrange features	allow porting of a portion of the common block
LFACS/ PAWS	local facility management	provide indicator for unbundled loops w/LNP
CABS/ CRIS	end user and access billing	record exchanges; new billing processes