

# Managing the Numbering Plan in Hong Kong

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#### **Numbering Issues in Hong Kong**

- Good Practice
- **♦**Lessons



## **Good Practice on Numbering Issues**



#### **Good Practice**

- Regulatory Framework
- Number Portability
- Special Number Arrangement



#### **Regulatory Framework**

- ◆ Statutory Provisions- Telecommunications Ordinance (Cap.106)
- ◆ The Hong Kong Numbering Plan
- Code of Practice relating to use of numbers
- Telecommunications Numbering Advisory
   Committee





- → The Telecommunications Authority (TA) is empowered under Section 32F of the Telecommunications Ordinance (Cap.106) to control numbers
- ◆ The TA may prepare, specify, approve, publish, administer, enforce and amend the numbering plan





- ◆ The TA may issue Code of Practice relating to the use of numbers in the numbering plan
- → The TA may recover the cost of administration of the numbering plan
- The TA may delegate the administration of numbering plan to any person





- ◆ The TA may designate numbers for lease or sale under regulations. Any proceeds raised by the lease or sale of numbers could be deployed to
  - → charitable institution, educational/R&D institutions connected with telecommunications, the promotion of education and R&D for telecommunications;
  - → a fund established by the TA for the above mentioned purposes





- ◆ A unified 8-digit numbering plan. Leading digits in the 8-digit numbers convey service information to the users. e.g. leading digit '2' numbers are fixed telephone numbers
- ◆ Operators providing same types of service share common number level. For example, all operators share number level '2' (i.e. numbers with leading digit '2') to provide fixed service
- New number level will be opened when the exisiting one is exhausted





- The COP contains guidance principle for operators to follow when assigning telecommunications numbers to end customers
- Two-tiers approach
  - →allocation distribution of numbers by the TA to operators on a block-by-block basis
  - → assignment distribution of numbers by the operators to users of telecommunications services





#### Allocation Principles

- → To ensure number allocations are consistent with the numbering plan and other relevant regulatory instruments
- → To be fair and consistent in application of the allocation procedures
- → To deal with allocation requests in a timely manner





#### Assignment Principles

- → Operators must treat customers equitably and fairly
- → Assignment of numbers by operators to end customers and their service offerings must comply with the Code of Practice and any requirements specified by the TA
- → Operators should recover any numbers which have been given up by customers leaving the service (except for number portability requirements) for recycling.





- ◆ The Telecommunications Numbering Advisory
   Committee (NAC) is established to
  - → advise the TA on the development, implementation and administration of the numbering issues
  - → advise the TA on the allocation of numbers in a fair and equitable manner
- Members include network operators, service providers, telecommunications associations, professional institutions, Consumer Council and individuals



#### Number Portability (1)

- Number portability for mobile service
  - → implemented in March 1999
  - → setup charge: about US \$1.3 per number
  - → usage charge: about US 0.064¢ per dipping
  - → since service launch, there are about 4.6 million porting cases



#### Number Portability (2)

- Number portability for fixed service
  - → implemented in July 1995
  - → setup charge: about US \$12 per line
  - → since service launch, there are about 0.63 million porting cases



#### Special Number Arrangement (1)

- An open and fair procedure to allocate special (or lucky) numbers is desirable
- Special Number Arrangement (SNA) is a proposed scheme to assign special numbers to customers



#### Special Number Arrangement (2)

- Depending on the popularity of the special numbers, they will be assigned to end users through auction or for sale at a fixed price
- ◆ SNA is in the progress of public consultation. It is expected that SNA will be implemented by end of 2002



### **Lessons on Numbering Issues**



#### Control of numbers (1)

- Before 1993, the numbering plan was administered by the then franchised telephone company
- ◆ In a competitive environment, managing the numbering plan by a network operator is not reasonable
- The TA was the natural candidate to administer the numbering plan



#### Control of numbers (2)

- Major policy considerations in taking over the control of numbers:
  - → Number is a public resourse
  - → A sound numbering plan is essential to the effective and efficient provision of services
  - The numbering plan should be administered by an impartial party



## Digit expansion (1)

- Hong Kong had adopted 7-digit numbering since 1967
- ◆ To cope with the increased demand, a new numbering plan was devised in consultation with the industry and the public in 1993/4
- ◆ The new 8-digit numbering plan increases the supply of numbers by one geometrical order



## Digit expansion (2)

- → A one-step transition to minimise customer confusion
- → 12 months advance notice was given for the community to prepare for an orderly change
- ♦ A series of publicity compaigns was launched
- ◆ The transition to 8-digit numbering plan was implemented on 1 January 1995



#### **- END -**