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COMMON LANGUAGE® Sequence Codes

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Trademark Acknowledgements

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This Practice contains a listing and brief description of Division 751 COMMON LANGUAGE Practices sorted by Practice number. It also indicates the functional category for each Practice.

1. Purpose

This Practice describes the standard COMMON LANGUAGE codes for the representation of alphabetical and numerical sequences.

2. Scope

This Practice is applicable to circuit administration, provisioning, design engineering, and other personnel having responsibility for designing, planning, and/or servicing telephone equipment.

3. Reason for Issue

This Practice is re-issued to bring the format into conformance with current Bellcore standards, to include additional sequences, and to eliminate the references to structured alphabetical codes.

4. General

Questions concerning this document should be directed through the appropriate Bellcore customer COMMON LANGUAGE code contact to the General Codes Chairperson, Language Standards Department, Bellcore.

The Bellcore Language Standards Department provides the technical expertise to maintain the General Code Set. The COMMON LANGUAGE Technical Advisory Group contributes to this process in accordance with the procedures outlined in BR 751-000-102, *COMMON LANGUAGE® Abbreviation and Code Request Procedures.* The standard Business name for this code set is COMMON LANGUAGE Sequence Codes.

5. Sequence Codes—Numerical

The Sequence Code—Numerical identifies a listing of items in an ordered manner using the Arabic numerical characters. The code is a variable length numeric code that is left justified with remaining spaces unfilled. The maximum number of characters is determined by the maximum number of items that must be listed sequentially. For example, if 1 to 99 items must be listed, a 2-character code (1 to 99) is used. Data values and codes are found in Table A.

Note: In some cases, a universe is numbered beginning with zero (0). In such cases, the sequence codes will be 0 to 9, 0 to 99, etc.

Table A. Sequence Codes—Numerical

Data Value	**Code**
Range 1 to 9	1 to 9
Range 1 to 99	1 to 99
Range 1 to 999	1 to 999
Range 1 to 9999	1 to 9999
Range 1 to 99999	1 to 99999

6. Sequence Codes—Alphabetical

The Sequence Code—Alphabetical identifies a listing of items in an ordered manner using the English alphabetic characters. The code is a variable length alphabetic code The maximum number of characters is determined by the maximum number of items that must be listed sequentially. For example, if 1 to 676 items must be listed, a 2-character code (AA to ZZ) is used. Data values and codes are found in Table B.

Table B. Sequence Codes—Alphabetical

Data Values	**Code**
1 to 26 items	A to Z
1 to 676 items	AA to ZZ
1 to 17,576 items	AAA to ZZZ
1 to 456,976 items	AAAA to ZZZZ

For the AA, AAA, or AAAA structures, the sequence should begin from the right to left as in the numerical system, i. e., AAA, AAB, through AAZ.

7. Sequence Codes—Roman Numerals

The Sequence Code—Roman Numeral identifies a listing of items in an ordered manner using certain alphabetic characters having predefined numeric values. The code is a

variable length code. The length of the code is determined by the particular values to be encoded. The alphabetic characters and their numeric values are as follows:

Table C. Sequence Codes—Roman Numerals

Data Value	Code
1	I
5	V
10	X
50	L
100	C
500	D
1000	M

English equivalent values are formed by combining the codes. Examples are listed below.

1	= I
2	= II
3	= III
4	= IV (a code preceded by a smaller valued code is subtractive)
5	= V
6	= VI (a code followed by a smaller or equal valued code is additive)
9	= IX
90	= XC
110	= CX
1993	= MCMXCIII

8. Sequence Codes—Alphanumeric

The Sequence Code—Alphanumeric identifies a listing of items in an ordered manner using a combination of numeric and alphabetic characters. The code is a variable length code whose maximum length is determined by the number of items to be listed. The sequence of the code is 1 through 9, A through Z, 10 through 19, 1A through 1Z, 20, etc.