

SDL—CCITT Specification and Description Language

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Abstract—The CCITT Specification and Description Language (SDL) became a CCITT recommendation in 1976, and a refined version was published by CCITT in 1980. This paper presents the background and history of SDL, and its relation to the other languages recommended by CCITT.

SDL is mainly a language to specify and describe the logic of functional processes in a fashion independent of implementation techniques, and is based on a finite-state machine approach. The concepts and representation forms of SDL are briefly explained. A survey is given of today's applications and tools, and the expected future developments are discussed.

I. HISTORY

THE CCITT Specification and Description Language (SDL) has so far been under study within CCITT, Study Group XI, for three study periods (i.e., $3 \times 4 = 12$ years), and is presently being further refined upon and improved in the current study period. CCITT SG XI is a study group primarily dealing with producing recommendations in the area of telephony switching and signaling—therefore, it might need some explanation why the group undertook the study of SDL and the other CCITT languages.

Why SDL

The study was initiated in the late 1960's when the experience of the first stored program control (SPC) applications in telephony was first felt. As SPC was a new technology there were a number of problems attached to the first exchanges. These problems were often identified as "software problems." Whether this was a correct identification may, of course, be discussed at length. This led, however, to a tendency of claiming that the solution to the problems should be to use "high-level languages" when programming the exchanges, in contrast to the "low-level" languages used at that time. Particularly for SPC telephony applications, a telephony-oriented language was urged. A proposal that this should be studied within CCITT was first raised at the CCITT Plenary Assembly in Madrid Plata in 1968. The question raised was regarded as a switching problem, and the question was assigned to SG XI.

However, the results of the first discussions on this question were that the need of two different languages was recognized: one high-level and telephony-oriented programming language, and one language for specification and description of functions. This latter language, SDL, was not to be a programming

language but a language able to describe functions in a fashion independent of implementation techniques.

Progress

The first period of study, 1968-1972, was mainly devoted to discussions about what should be studied. The main result of this study was that the "CCITT language family" was extended to also contain a "Man-Machine Language" (MML).

In the next Study Period the basic SDL was outlined, the language becoming not exactly defined but the general principles were agreed upon. The result of this was the Recommendations Z101-Z104 approved at the CCITT Plenary of 1976.

During the following Study Period, 1977-1980, these recommendations were refined upon. A number of semantical problems were resolved, and the language became extensively used within CCITT and by manufacturers and administrations. The new CCITT Recommendations on SDL, Z101-Z104, were approved in the Plenary of 1980.

The present work on SDL is presented in Section V of this paper.

Relations to Other CCITT Languages

As briefly mentioned above, SDL has been developed in parallel with the other two CCITT languages; the high-level programming language CHILL and the man-machine language MML. During this development the desirability of a harmonized language family has been considered and recognized, i.e., the use of common concepts and terminology. This can be illustrated with the following quotation from the considerations to the study questions of 1972:

"... that there is an interrelation between the requirements of a command language and those of a high-level programming and methods of functional specification to be developed, and this relationship must be considered in their development. The establishment of a common standard terminology is of greatest importance. . . ."

This correlation between the languages has been obtained; for example, both CHILL and SDL contain a number of common concepts: process, signal, etc.

The relations between the languages and the actual system specified and described can be illustrated in the manner shown in Fig. 1.

Very briefly, Fig. 1 can be explained as follows. Both the specification and the description of a system can be made using SDL, and it is possible to make a "functional" comparison between these two descriptions. While SDL describes the functions of a system in a way independent of the implementation technique, CHILL can describe the same functions adding details depending on the implementation in software. The

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An Introduction To The Ccitt Sdl

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