

TRANSIT-CPIC Version 3.6

Issue Juli 2006
TRANSIT-CPIC

Pages 2

X/Open XPG4 CPI-C, APPC interface and transparent communication in SNA network

The portability of applications for distributed processing in SNA networks calls for the availability of a uniform program interface on all participating systems. CPI-C (Common Programming Interface for Communications) is an industry standard, and forms part of the XPG4 (X/Open Portability Guide). TRANSIT-CPIC has been awarded XPG4 branding.

TRANSIT-CPIC serves to permit SNA LU6.2 program-to-program communication between a CPI-C or APPC application program in the UNIX system, and a CPI-C or APPC application program in the SNA host or SNA peer system.

Product Characteristics

TRANSIT-CPIC is based on the proven TRANSIT client-server concept. TRANSIT-SERVER implements the access to the SNA network required by TRANSIT-CPIC (gateway function), i.e. optionally either the SNA Node Type 2.1 or Type 2.0. TRANSIT-CPIC can be run on dedicated client systems and together with TRANSIT-SERVER on a UNIX server. TRANSIT-CPIC additionally includes the APPC interface (Advanced Program to Program Communication). APPC is used by systems including TP monitors such as openUTM, ENCINA (Transarc) and CICS (IBM). The openness of the CPIC and APPC program interfaces can be seen from the fact that the IBM products CICS, DB2, MQSeries and NetViewDM can run on the RM servers.

Many programs employ CMX for program-to-program communication between UNIX computers. The component TRANSIT-TCS (Transparent Communications via SNA) from the product TRANSIT-CPIC (SINIX) also permits these communication options to be used if these computers are integrated into an SNA network. To this end, the systems in the SNA network are configured as PU2.1 nodes. The CMX applications then run transparently, via the SNA network. No modification of the existing CMX application programs is required. An example is openFT.

Functional Description

CPI-C

on LU6.2 is the IBM-defined program interface adopted by X/Open for Cooperative Processing. The functional scope corresponds to the description in the "CPI-C/LU6.2 Reference Manual", the "X/Open Developers' Specification: CPI-C

(X/Open Document Number: XO/DEV/90/050, ISBN: 1 872630 02 2)" or in the basic IBM "SAA Common Programming Interface Communications Reference (SC26-4399-0)".

CPI-C applications can be implemented in the programming language C. The software product TRANSIT-CPIC includes the interface library CPI-C, APPC and the LU6.2 protocol. The LU6.2 protocol supports both synchronous and asynchronous program execution.

APPC

The functional scope of the new APPC interface is compatible with the SNAP-IX APPC from Data Connection. The SNAP-IX APPC, described in the Data Connection Manual, is available on various UNIX platforms. It is recommended particularly for use with applications employed in multivendor environments. Of particular interest is the SyncPoint function used to synchronize database access. This synchronization is an important prerequisite for the openUTM and CICS transaction monitors.

Localization

Code pages for various languages are supplied for the LU6.2 applications, allowing them to be presented to the users in their own language. The languages of the following countries are supported:

Denmark, Norway, France, Germany, Austria, Iceland, Belgium, Switzerland (German and French), Italy, Spain, Sweden, Finland, Great Britain and the USA.

Technical data TRANSIT-CPIC V3.6	
Hardware	<ul style="list-style-type: none"> ■ RM200 RM600 / PRIMEPOWER M200 - M2000
Memory requirement	<ul style="list-style-type: none"> ■ RAM: TRANSIT basic system: approx. 565 KB <ul style="list-style-type: none"> - CPI-C Library: approx. 30 KB - APPC Library: approx. 30 KB - TRANSIT-TCS 1,2 KB per CMX connection ■ DISK: approx. 1,6 MB
Software	<ul style="list-style-type: none"> ■ Reliant UNIX as of V5.43C / as of Solaris 7 ■ TRANSIT-SERVER V3.6 ■ if TRANSIT-CPIC, -SERVER aren't together on one RM System: CMX
Documentation	<ul style="list-style-type: none"> ■ CPI-C and LU6.2 / Transparent Communication via SNA ■ Programming Interface CPI-C ■ Programming Interface APPC
Conditions	<p>This software is available to customers in accordance with the stipulations of our system contract.</p> <ul style="list-style-type: none"> ■ Warranty: Class: A ■ Delivery format: Machine language
Ordering and delivery	<p>This software product may be obtained from your local Fujitsu Siemens regional office. The units offered are divided into data medium with software, license and documentation; each must be ordered separately.</p>