THALES

SRM

The Security Resource Manager for HP NonStop Systems

KEY BENEFITS

- Sharing of HSMs between multiple applications
- Reduced implementation costs by insulating applications from low-level hardware concerns
- No application changes when adding new HSMs or connectivity types
- Multiple simultaneous connectivity options
- Problem determination and recovery facilities
- Full non-stop operation for high fault tolerance
- Transaction queuing and load balancing for effective management of peak loads
- Centralised key management facility
- Multi-threading for high performance

The Security Resource Manager (SRM) for HP NonStop (formerly Tandem Guardian) systems provides easy access to the secure cryptographic functions of the RG7000 and HSM 8000 series Host Security Modules (HSMs). The SRM provides multiple applications with an Application Program Interface (API) to the HSM resource. This allows sophisticated security functionality to be easily incorporated into applications and significantly reduces the cost of implementation.

The SRM, which is a NonStop PATHWAY application, provides a reliable, high availablilty cryptographic resource. The SRM utilises the PATHMON and LINKMON NonStop processes to provide its load balancing and queuing facilities.

The SRM has an optional key management database in which all keys are named. This provides an easy method of maintaining all the keys used in the security sub-system.

>> SRM

Technical Specifications

Operational Facilities

The use of HSMs in Authorised state is supported with applications able to route messages to HSMs in this state.The SRM attempts to handle automatically any exception cases as they occur and is designed to minimise the effect of any fault upon the operation of the SRM. Messages to failed HSMs are retried and will be processed by a working HSM without further intervention from the application.The Error Logging sub-system is a Non-Stop process which provides a centralised error reporting facility to a log file and operator console.Fault finding and system testing is aided by an event audit facility. This allows all HSM commands and responses to be recorded in an audit file for later examination.

Tandem Operating System support

NonStop Kernel G and H series. (J series accreditation is in progress) Current version compatible with G06 and H06 release.

API and Language Support

PATHWAY and Non-PATHWAY applications. All NonStop language options are supported e.g. COBOL, SCOBOL, TAL, C, FORTRAN etc.

Integrates with

PATHWAY for message handling, queueing and load balancing. NTMF for Key database integrity

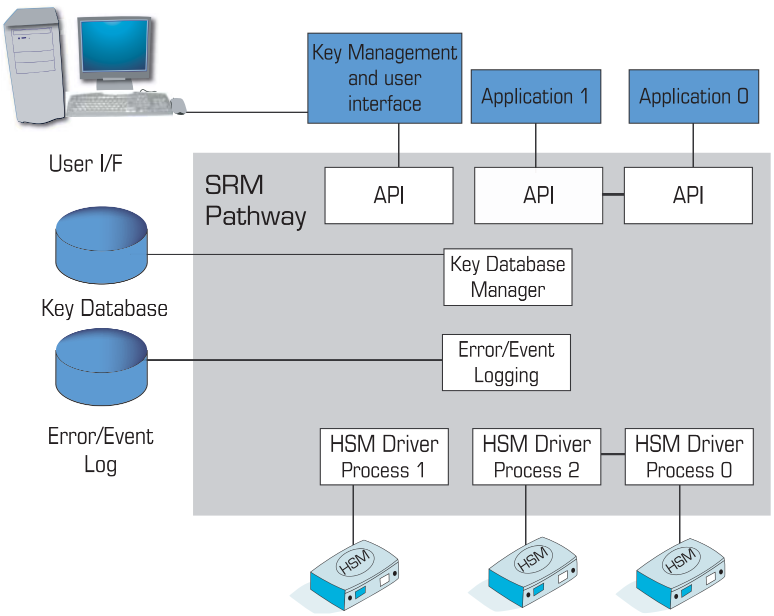
HSM Types Supported

- > RG71x0: TCP/IP Ethernet
- > RG73x0: Tandem SDLC using ENVOY ACP/XF driver software, RS449
- > RG7400: ASCII/Async using ATP-6100 driver software, RS232.
- > HSM 8000: Ethernet, Async, and SNA/SDLC, RS232.

Distribution

Software distributed on CD

Support files included: Operational Obey files
Base configuration files



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