

# HP Atalla Resource Manager

Data sheet



IT organizations with a complex Atalla network security processor environment or experiencing rapid growth can save time and money using the Atalla Resource Manager to customize their environment to the needs of their financial institution.



## Features at a glance

- Add or delete Atalla NSP products and host applications online
- Manage groups of similar Atalla NSP products and host applications
- Balance workload across multiple Atalla NSPs within groups
- Allow users to name and make an alias of a cryptographic key
- Manage up to 255 Atalla NSP products in one instance

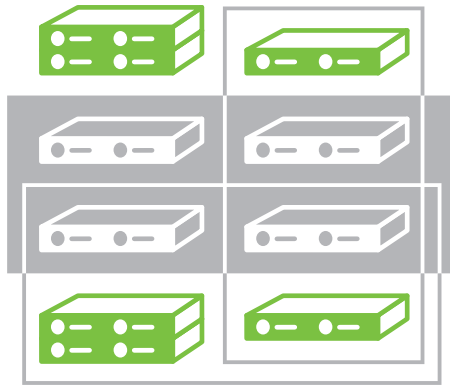


Figure 1. An example of a mixed production and development environment of Atalla NSPs of all sizes and types, with some NSPs supporting the initializing and re-keying of remote ATMs.

The HP Atalla Resource Manager (ARM) is a subsystem of Pathway software running on the HP NonStop server. The ARM subsystem is used to manage groups of Atalla network security processors (NSPs) and their host applications to optimize the performance and security of cryptographic operations.

The Atalla Resource Manager enables users of two or more Atalla NSPs to simplify their environment by managing the cryptographic access to NSPs for applications such as ATM/POS, telephone banking, or teller applications.

#### Easily add or delete components

Prior to the availability of ARM, many changes to an NSP environment had to be prestaged, which required a temporary application outage. With ARM, a user at the ARMCOM operator console can add or delete the following components online:

- Host applications
- Key databases
- An individual Atalla NSP
- Groups of Atalla NSPs

#### Logical and flexible grouping of Atalla NSPs

The Atalla Resource Manager allows a user to logically group Atalla NSP products with similar characteristics, such as the model, release, or enabled functionality. Atalla NSPs can be linked to more than one group. The NSPs within a group share a common master file key, which allows specific transactions to be directed to specific groups for processing. An example of this is the routing of requests to the specific Atalla NSPs that support the public key cryptography required by remote ATM key management.

By enabling the user to add or delete an NSP from one group to another, ARM easily facilitates the migration to new NSP capabilities in a growing Atalla NSP environment (see figure 1).

#### Load balancing across groups

Robust transaction load balancing is conducted across all the Atalla NSPs within a group for optimal throughput and improved overall system performance. ARM enables multiple applications to be supported by a single NSP and a single application to access multiple Atalla NSP products to support peak transaction loads.

Cryptographic transaction requests are routed to the Atalla NSP with the least pending outstanding requests. Load balancing is performed across all the sockets on all the NSPs within a group. ARM is multi-threaded so that one or many applications can talk to one or many NSPs in a highly scalable manner.

Both variant key management and the new Atalla Key Block (AKB) are supported, but a group cannot have both variant and AKB resources. This dual support allows a user to put ARM into service prior to, and to assist with, a migration to the AKB. ARM also supports both the new-generation Atalla Ax100 NSP family and the legacy Atalla A9000 and A10000 NSP products running Release Version 2.84 or later.

#### ARM servers

ARM processes are persistent when more than one CPU is used. In the event of a CPU failure, ARM processes are automatically restarted. Any transactions in process when the failure occurred will receive an error message and be terminated by the application. ARM supports multiple requests; while one request is being processed, another can be received before the response to the first is sent. As is typical in a Pathway environment, additional ARM servers can be dynamically created to handle an increased workload.

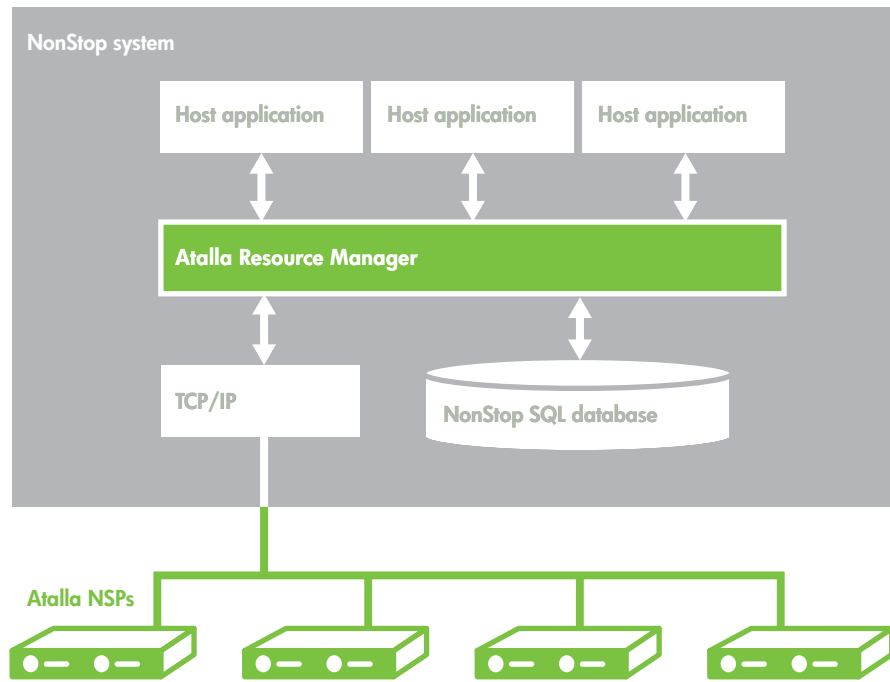


Figure 2. The Atalla Resource Manager in the NonStop system environment.

The Atalla Resource Manager subsystem (see figure 2) consists of the following components:

- The ARM server is the interface to host applications and routes requests to the other ARM servers.
- The ARM control server manages the ARM-controlled NonStop SQL database.
- The ARM communication server performs the Ethernet TCP/IP input/output to the Atalla NSP.
- The ARMCOM command interface program is the user interface.

**For more information**

For 30 years, Atalla security products have defined the standards for cryptographic processing. The highest levels of protection, control, and flexibility are built into the HP Atalla Resource Manager. To learn more, contact your local HP representative or call the Atalla Sales Help Desk at 1 (800) 523 9981 or +1 (408) 285 5434 (international).

**Ordering information**

**Product ID** T16/ARM

**Description** Atalla Resource Manager

Note: Although ARM is not a replacement for current users of BOXCAR software, a device driver interface for the Atalla NSP, ARM provides greater functionality. ARM includes a device driver plus robust load balancing and asset management that is not provided with BOXCAR.

**System requirements**

**Hardware** HP NonStop server

Atalla A10100, A10100V, A9100, A9100V, A8100, A8100V, A10000E, or A9000 NSP with a defined master file key

**Software** NonStop Kernel operating system Release Version D48 or later

NonStop Transaction Management Facility (NonStop TMF) software

Pathway software

HP Safeguard access control list

© Copyright 2004 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

For more information, go to [www.atalla.com](http://www.atalla.com).

5981-7292EN, 02/2004

