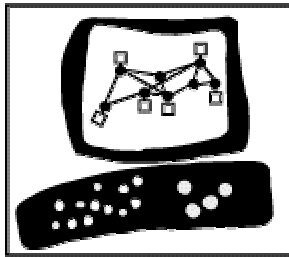


**CHECK POINT™**  
Software Technologies, Inc.



*We Secure the Internet.*

## **OPSEC Certification Technical Note**

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Object Management Interface (OMI) Next Generation Architecture

November 2001



## 1. Introduction

OPSEC™ certified products using the Object Management Interface (OMI) interface certified with FireWall-1™ or VPN-1™ versions 4.1.2 and before WILL need to be re-certified with the new Next Generation (NG) release. Schema changes were implemented to support new features in NG and a Read/Write API called CPMI that has the potential of breaking existing product functionality.

Here is a list of known scenarios where we know functionality will be broken. If you have any questions or concerns, contact your OPSEC Alliance manager.

**NOTE: Please migrate your OMI application to use CPMI. OMI will not be supported by VPN-1/FW-1 with NG FP2 scheduled for release in 2<sup>nd</sup> quarter of 2002.**

## 2. OMI Schema Changes

The schema changes are organized into 3 categories (A,B,C)

### A. New Schema objects/attributes

These will not affect any existing certified product.

### B. Deleted schema objects/attributes

#### Scenario B.1

|   |     |
|---|-----|
| Use OMI API   | YES |
| Certified Application queries for schema objects/attributes that were deleted | YES |

#### Scenario B.2

|   |     |
|---|-----|
| Use OMI API   | YES |
| Certified Application queries a tree and uses schema objects/attributes that were deleted | YES |

**Please change your source code to not access these objects/attributes. The information you need maybe available elsewhere. Re-compile and submit for re-certification. There will be no charge for the re-certification.**

If your application does not use these objects/attributes at all, you will **not** need to be re-certified. Your application will work with VPN-1/FW-1 NG as expected. Please verify this and contact your alliance manager. We will waive certification for vendors that demonstrate compatibility with NG.

### C. Modified/Relocated schema objects

#### Scenario C.1

|  |     |
|--|-----|
| Use OMI API  | YES |
| Certified Application queries for schema objects/attributes that were modified/relocated | YES |

### Scenario C.2

|  |     |
|--|-----|
| Use OMI API  | YES |
| Certified Application queries a tree and uses schema objects/attributes that were modified/relocated | YES |

Please change your source code to access the objects/attributes at their new location in the schema. Re-compile and submit for re-certification. There will be no charge for the re-certification.

## 3. Schema Details

Refer to the omi.pdf in the NG OPSEC SDK for further details.

### A. New schema objects/attributes/subtrees

#### A.1 - New Subtrees

##### OPSEC APPLICATIONS

obj id: 1.3.114.7.3.1.7.0.1

name : fw1opsec

description: a base class for all opsec applications

SUPER Class: fw1obj

##### QoS

obj id: 1.3.114.7.3.1.8.0.1

name : fw1qos

description: a base class for all Qos classes

SUPER Class: fw1obj

#### A.2 - New objects

##### Subtree: service

obj id: 1.3.114.7.3.1.2.0.10

name : fw1tcp-compound

description: A Compound TCP connection

SUPER Class: fw1port-service

obj id: 1.3.114.7.3.1.2.0.11

name : fw1DCERPC

description: A DCE RPC interface

SUPER Class: fw1obj

##### Subtree: time

obj id: 1.3.114.7.3.1.5.0.2

name : fw1timeScheduledEvent

description: scheduled event time object  
SUPER Class: fw1obj

Subtree: server

obj id: 1.3.114.7.3.1.4.0.11  
name : fw1srdns-server  
description: SecuRemote DNS server  
SUPER Class: fw1server

**A.3 - New attributes**

cp\_products\_installed was added to fw1gw.

fw1uri-scheme-mask and fw1uri-method-mask were added to fw1uri-resource.

**B. Deleted schema objects/attributes**

fw1gateway cluster attribute was removed from fw1ws  
In NG the members of a cluster are part of the cluster object.

Port range does not exist any more

obj id: 1.3.114.7.3.1.2.0.4  
name : fw1port-range  
description: A range of tcp or udp ports  
SUPER Class: fw1obj

UFP and CVP server objects are obsolete

obj id: 1.3.114.7.3.1.4.0.3  
name : fw1ufp-server  
description: A UFP Server  
SUPER Class: fw1tcp-server

obj id: 1.3.114.7.3.1.4.0.4  
name : fw1cvp-server  
description: A CVP Server  
SUPER Class: fw1tcp-server

**C. Modified/Relocated schema objects/attributes**

Perform anti spoofing field was added to fw1gw class to the fw1netaccess attribute value list. The field name is anti\_spoof, its value is boolean (true, or false).

Policy server was removed from server to workstation properties. In VPN-1/FW-1 versions before NG, the Policy Server was created as a server object. In NG it is an attribute of a workstation under "Check Point products installed".

The value for attributes fw1uri-scheme and fw1uri-method under fw1uri-resource has changed.

*Any other questions or issues should be escalated through your OPSEC Alliance Manager.*