

Megaco
Internet Draft
[draft-rosen-megaco-namepatterns-01.txt](#)
Category: Informational

B. Rosen
Marconi
July, 2002

Name Pattern Package for Megaco

Status of this Memo

This document is an Internet-Draft and is in full conformance with all provisions of [Section 10 of RFC2026](#) [1].

Internet-Drafts are working documents of the Internet Engineering Task Force (IETF), its areas, and its working groups. Note that other groups may also distribute working documents as Internet-Drafts. Internet-Drafts are draft documents valid for a maximum of six months and may be updated, replaced, or obsoleted by other documents at any time. It is inappropriate to use Internet-Drafts as reference material or to cite them other than as "work in progress."

The list of current Internet-Drafts can be accessed at

<http://www.ietf.org/ietf/1id-abstracts.txt>

The list of Internet-Draft Shadow Directories can be accessed at

<http://www.ietf.org/shadow.html>.

1. Abstract

To construct meaningful audits of terminations while controlling the amount of data sent in response to the audits, it would be very helpful if the MGC understood the way terminations were named in the MG. This package provides a method for obtaining the naming pattern for terminations in an MG.

2. Package Description

2.1 Naming Pattern Package

PackageID: nampat (0x00xx)

Version: 1

Extends: root

Description: This package defines Gateway wide termination naming pattern.

2.1.1.1 Properties

Pattern

PropertyId: Pattern (0x0010)

Name pattern of a set of terminations in the gateway.
Used to discover the names of terminations that
can be audited. Includes ephemeral terminations.
MGs SHOULD use one pattern for each type of
termination (same packages implemented), but no
two Patterns can have the same value.

Type: String

Possible Value:

In Text Encoding

A string of up to 64 characters using the following
characters:

a-z,A-Z,0-9, and "/" - the actual character
in the name

* - any set of characters

?a - any single character

?0 - any digit

?a - any alpha

[n,n,..,n] - alternatives, one of the
alternatives listed, n can be a substring
of alphas or digits

[n-n] - range, any number in the range,
n can be a number or an alpha, for example
[00-27] or [a-e]

Note, mixing of alternatives or ranges is allowed,
as in: [0,3-5,8]

In Binary Encoding

An octet string with

Bytes 0-3 Variable Mask û ones where the Id
pattern varies

Bytes 4-7 Fixed Value û the value for the Id
where the Variable Mask bit is 0

Characteristics: Read-only

Defined in: TerminationState

MaxPatterns

PropertyId: MaxPatterns (0x0011)
The number of patterns in the gateway
Type: Integer
Possible Value: any integer
Characteristics: Read-only
Defined in: TerminationState

PatternNum

PropertyId: PatternNum (0x0012)
Which pattern to read, zero based. Set by the MGC to

Rosen	Informational û Expires January, 2003	2
	Name Pattern Package for Megaco	July 2002

read a specific pattern in Pattern
Type: Integer
Possible Value: any integer from zero to MaxPatterns-1
Characteristics: Read-Write
Defined in: TerminationState

2.1.2 Events

None

2.1.3 Signals

None

2.1.4 Statistics

None

2.1.5 Procedures

To use this package, one would set PatternNum to the value 0, perhaps using a Modify command), on the Root termination, and then auditValue TerminationState. This would return Pattern(0) and MaxPatterns. One would then change PatternNum to 1, and audit again, repeating until PatternNum = MaxPatterns-1. It is possible to set PatternNum and retrieve the pattern in one command by including the Audit parameter in the Modify command. If PatternNum is set to an illegal value, Error = 455 - Parameter illegal in this Descriptor is returned. In this case PatternNum remains unchanged from previous value.

It is recommended, when specifying the names of Terminations, that packages implemented by one pattern are the same, but of course, two patterns could have the same packages implemented on them. Name patterns are simply a way for the MG to tell the MG how to construct

efficient wildcards.

5. References

- 1 Cuervo, Greene, Huitema, Rayhan, Rosen and Segers "Megaco Protocol Version 1.0", [RFC 3015](#), November, 2000

6. Author's Addresses

Brian Rosen
Marconi
1000 Marconi Drive
Warrendale, PA 15086
USA
Phone: +1 (724) 742-6826
Email: brian.rosen@marconi.com

Rosen	Informational	Expires January 2003	4
	Name Pattern Package for Megaco		July 2002

Full Copyright Statement

"Copyright (C) The Internet Society (date). All Rights Reserved.
This document and translations of it may be copied and furnished to others, and derivative works that comment on or otherwise explain it or assist in its implementation may be prepared, copied, published and distributed, in whole or in part, without restriction of any kind, provided that the above copyright notice and this paragraph are included on all such copies and derivative works. However, this document itself may not be modified in any way, such as by removing the copyright notice or references to the Internet Society or other Internet organizations, except as needed for the purpose of developing Internet standards in which case the procedures for copyrights defined in the Internet Standards process must be followed, or as required to translate it into

