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James Polk
Cisco Systems

IANA Registration of New Session Initiation Protocol (SIP)
Resource-Priority Header Namespaces
[draft-ietf-sip-rph-new-namespaces-00](#)

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Abstract

This document creates additional Session Initiation Protocol Resource-Priority header namespaces, to be IANA registered.

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[1.](#) Introduction

The US Defense Information Systems Agency (DISA) is rolling out their Session Initiation Protocol (SIP) based architecture at this time. This network will require more Resource-Priority header (RPH) namespaces than were defined, and IANA registered, in [RFC 4412](#) [[RFC4412](#)]. The purpose of this document is to define these additional namespaces. Each will be [RFC 4412](#) defined preemption based in nature, and will have the same 5 priority-values.

One aspect within DISA's network will be to allow a session or call to only preempt another call established with the same Resource-Priority header namespace, but no other namespace.

In other words, messages with a namespace of dsn-X may only have their RPH priority-values compared for preferential treatment to other dsn-X namespaces, and not any other namespaces, unless two or more (complete) namespaces are considered to be equivalent, as defined in [section 8 of RFC 4412](#) [[RFC4412](#)].

This is all a matter of local policy. However, this policy is a known requirement from DISA to support moving forward.

[1.1](#) Conventions used in this document

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [[RFC2119](#)].

[2.](#) New RPH Namespaces Created

The following 50 SIP Resource Priority header namespaces are created by this document:

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dsn-000000	dsn-000010	dsn-000020	dsn-000030
dsn-000001	dsn-000011	dsn-000021	dsn-000031
dsn-000002	dsn-000012	dsn-000022	
dsn-000003	dsn-000013	dsn-000023	
dsn-000004	dsn-000014	dsn-000024	
dsn-000005	dsn-000015	dsn-000025	
dsn-000006	dsn-000016	dsn-000026	
dsn-000007	dsn-000017	dsn-000027	
dsn-000008	dsn-000018	dsn-000028	
dsn-000009	dsn-000019	dsn-000029	
dsn-00000A	dsn-00001A	dsn-00002A	
dsn-00000B	dsn-00001B	dsn-00002B	
dsn-00000C	dsn-00001C	dsn-00002C	
dsn-00000D	dsn-00001D	dsn-00002D	
dsn-00000E	dsn-00001E	dsn-00002E	
dsn-00000F	dsn-00001F	dsn-00002F	

Each namespace listed above will have the same 5 priority-levels:

- .0 (lowest priority)
- .2
- .4
- .6
- .8 (highest priority)

A namespace from the above list will not be considered for preferential treatment over another namespace unless local policy has configured a SIP entity processing two messages (each with different namespaces) as being equivalent (see [section 8 of RFC 4412](#) [[RFC4412](#)] for this detailed).

The reality of this is, a message (or a call) with the following Resource-Priority header value:

dsn-000001.8

for example, will not have any preferential treatment over a message, for example, with this Resource-Priority header value:

dsn-000010.0

because they are two difference namespaces.

The dash '-' character is just like any other character, and is not to be considered a delimiter in any official way within any namespace here. This MAY change in future efforts.

As stated in [Section 9 of RFC 4412](#) [[RFC4412](#)], an IANA registered namespace SHOULD NOT change the number, and MUST NOT change the

relative priority order, of its assigned priority-values.

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3. IANA Considerations

Abiding by the rules established within [RFC 4412](#) [RFC4412], this is a Standards-Track document registering new SIP Resource-Priority header namespaces, and their associated priority-values and intended algorithms.

3.1 IANA Resource-Priority Namespace Registration

Within the "Resource-Priority Namespaces" registry in the sip-parameters section of IANA, the following table lists the new RPH namespaces registered by this document (NOTE: 'RFCXXXX' is to be replaced by this document's RFC number if this document is published by the RFC-Editor):

Namespace	Levels	Intended Algorithm	New warn-code	New resp. code	Reference
-----	-----	-----	-----	-----	-----
dsn-000000	5	preemption	no	no	[RFCXXXX]
dsn-000001	5	preemption	no	no	[RFCXXXX]
dsn-000002	5	preemption	no	no	[RFCXXXX]
dsn-000003	5	preemption	no	no	[RFCXXXX]
dsn-000004	5	preemption	no	no	[RFCXXXX]
dsn-000005	5	preemption	no	no	[RFCXXXX]
dsn-000006	5	preemption	no	no	[RFCXXXX]
dsn-000007	5	preemption	no	no	[RFCXXXX]
dsn-000008	5	preemption	no	no	[RFCXXXX]
dsn-000009	5	preemption	no	no	[RFCXXXX]
dsn-00000A	5	preemption	no	no	[RFCXXXX]
dsn-00000B	5	preemption	no	no	[RFCXXXX]
dsn-00000C	5	preemption	no	no	[RFCXXXX]
dsn-00000D	5	preemption	no	no	[RFCXXXX]
dsn-00000E	5	preemption	no	no	[RFCXXXX]
dsn-00000F	5	preemption	no	no	[RFCXXXX]
dsn-000010	5	preemption	no	no	[RFCXXXX]
dsn-000011	5	preemption	no	no	[RFCXXXX]
dsn-000012	5	preemption	no	no	[RFCXXXX]
dsn-000013	5	preemption	no	no	[RFCXXXX]
dsn-000014	5	preemption	no	no	[RFCXXXX]
dsn-000015	5	preemption	no	no	[RFCXXXX]
dsn-000016	5	preemption	no	no	[RFCXXXX]
dsn-000017	5	preemption	no	no	[RFCXXXX]
dsn-000018	5	preemption	no	no	[RFCXXXX]
dsn-000019	5	preemption	no	no	[RFCXXXX]
dsn-00001A	5	preemption	no	no	[RFCXXXX]
dsn-00001B	5	preemption	no	no	[RFCXXXX]
dsn-00001C	5	preemption	no	no	[RFCXXXX]

dsn-00001D	5	preemption	no	no	[RFCXXXX]
dsn-00001E	5	preemption	no	no	[RFCXXXX]
dsn-00001F	5	preemption	no	no	[RFCXXXX]

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dsn-000020	5	preemption	no	no	[RFCXXXX]
dsn-000021	5	preemption	no	no	[RFCXXXX]
dsn-000022	5	preemption	no	no	[RFCXXXX]
dsn-000023	5	preemption	no	no	[RFCXXXX]
dsn-000024	5	preemption	no	no	[RFCXXXX]
dsn-000025	5	preemption	no	no	[RFCXXXX]
dsn-000026	5	preemption	no	no	[RFCXXXX]
dsn-000027	5	preemption	no	no	[RFCXXXX]
dsn-000028	5	preemption	no	no	[RFCXXXX]
dsn-000029	5	preemption	no	no	[RFCXXXX]
dsn-00002A	5	preemption	no	no	[RFCXXXX]
dsn-00002B	5	preemption	no	no	[RFCXXXX]
dsn-00002C	5	preemption	no	no	[RFCXXXX]
dsn-00002D	5	preemption	no	no	[RFCXXXX]
dsn-00002E	5	preemption	no	no	[RFCXXXX]
dsn-00002F	5	preemption	no	no	[RFCXXXX]
dsn-000030	5	preemption	no	no	[RFCXXXX]
dsn-000031	5	preemption	no	no	[RFCXXXX]

3.2 IANA Priority-Value Registrations

Within the "Resource-Priority Priority-values" registry in the sip-parameters section of IANA, the list of priority-values for each of the newly created RPH namespaces from [section 4.1](#) of this document, prioritized least to greatest, is registered by the following:

Namespace: dsn-000000

Reference: RFCXXXX (this document)

Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000001

Reference: RFCXXXX (this document)

Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000002

Reference: RFCXXXX (this document)

Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000003

Reference: RFCXXXX (this document)

Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000004

Reference: RFCXXXX (this document)

Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000005

Reference: RFCXXXX (this document)

Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000006

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Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000007
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000008
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000009
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-00000A
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-00000B
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-00000C
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-00000D
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-00000E
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-00000F
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000010
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000011
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000012
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000013

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Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000014
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000015
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000016
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000017
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000018
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000019
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-00001A
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-00001B
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-00001C
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-00001D
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-00001E
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-00001F
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000020

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Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000021
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000022
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000023
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000024
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000025
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000026
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000027
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000028
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000029
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-00002A
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-00002B
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-00002C
Reference: RFCXXXX (this document)
Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-00002D

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Reference: RFCXXXX (this document)

Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-00002E

Reference: RFCXXXX (this document)

Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-00002F

Reference: RFCXXXX (this document)

Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000030

Reference: RFCXXXX (this document)

Priority-Values (least to greatest): "0", "2", "4", "6", "8"

Namespace: dsn-000031

Reference: RFCXXXX (this document)

Priority-Values (least to greatest): "0", "2", "4", "6", "8"

4. Security Considerations

This document has the same Security Considerations as [RFC 4412](#).

5. Acknowledgements

To Jeff Hewett for his helpful guidance in this effort.

6. References

6.1 Normative References

- [RFC4412] Schulzrinne, H., Polk, J., "Communications Resource Priority for the Session Initiation Protocol (SIP)", [RFC 4411](#), Feb 2006
- [RFC2119] S. Bradner, "Key words for use in RFCs to Indicate Requirement Levels", [RFC 2119](#), March 1997

Author's Address

James Polk
3913 Treemont Circle
Colleyville, Texas 76034
USA

Phone: +1-817-271-3552

Fax: none
Email: jmpolk@cisco.com

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