

ทะเบียนโปรโตคอล

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ฐานข้อมูลเขตเวลา
ผลงาน
สถานะร่าง IETF

ทะเบียนพารามิเตอร์โปรโตคอลเป็นบันทึกที่เชื่อถือได้ของรหัสและตัวเลขจำนวนมากที่อยู่ในโปรโตคอลอินเทอร์เน็ตต่างๆ รักษาบันทึกเหล่านี้ให้เป็นไปตามมาตรฐานทางเทคนิคและนโยบายการจัดสรรที่เกี่ยวข้อง และเราให้บริการนี้โดยประสานคณะทำงานด้านวิศวกรรมอินเทอร์เน็ต (IETF)

หากต้องการดูหรือดาวน์โหลดข้อมูลทะเบียนโปรโตคอลแต่ละรายการ ให้ไปที่ทะเบียนแต่ละ รายการ ผ่านดัชนีด้านล่าง ขัทะเบียนสามารถเรียกดูได้ในปริมาณมากผ่าน [Rsync](#) (แนะนำ) หรือ [FTP](#)

หากต้องการลงทะเบียนในทะเบียนที่มีอยู่แล้ว หรือแก้ไขการลงทะเบียนที่มีอยู่โปรดดูแบบฟอร์มใบสมัครที่เกี่ยวข้องสำหรับเกี่ยวกับการสร้างทะเบียนใหม่ โปรดดูคำแนะนำใน [RFC 8126](#)

A B C D E F G H I J K L M N O P Q R S T U V W X Y

โปรโตคอล/ทะเบียน

เอกสารกำหนด/ความคิดเห็น

เอ

โปรโตคอลควบคุมโหนดการเข้าถึง (ANCP)

ประเภทความสามารถของ ANCP	มาตรฐาน RFC 6320 การดำเนินการ
รหัสคำสั่ง ANCP	มาตรฐาน RFC 6320 การดำเนินการ
ประเภทข้อความ ANCP	มาตรฐาน RFC 6320 การดำเนินการ
ฟังก์ชันการจัดการพอร์ต ANCP	มาตรฐาน RFC 6320 การดำเนินการ
รหัสผลลัพธ์ ANCP	RFC 6320 0x0-0xFFF: การตรวจสอบโดย IETF 0x1000-0xFFFFF: ต้องมีข้อกำหนด (ผู้เชี่ยวชาญ: ยังไม่ได้กำหนด)
ประเภทเทคโนโลยี ANCP	การตรวจสอบโดยผู้เชี่ยวชาญสำหรับ RFC 6320 (ผู้เชี่ยวชาญ: ยังไม่ระบุ)
ประเภท ANCP TLV	RFC 6320 0x0000-0x1FFF: การตรวจสอบโดย IETF 0x2000-0xFFFF: ต้องมีข้อกำหนด (ผู้เชี่ยวชาญ: ยังไม่ได้กำหนด)
ทะเบียนเวอร์ชัน GSMP / ANCP รวม	มาตรฐาน RFC 6320 การดำเนินการ

เอซีแอล ทีแอลเอส

พารามิเตอร์ ACL (D)TLS	การตรวจสอบโดยผู้เชี่ยวชาญสำหรับ RFC 9761 (ผู้เชี่ยวชาญ: Dan Wing, Per Andersson)
รหัสเวอร์ชัน ACL DTLS	การตรวจสอบโดยผู้เชี่ยวชาญสำหรับ RFC 9761 (ผู้เชี่ยวชาญ: Dan Wing, Per Andersson)
รหัสเวอร์ชัน ACL TLS	การตรวจสอบโดยผู้เชี่ยวชาญสำหรับ RFC 9761 (ผู้เชี่ยวชาญ: Dan Wing, Per Andersson)

พารามิเตอร์เวกเตอร์ระยะทางตามความต้องการเฉพาะกิจ (AODV)

ประเภทส่วนขยาย AODV	มาตรฐาน RFC 3561 การดำเนินการ
ประเภทข้อความ AODV (สำหรับข้อความที่ส่งไปยังพอร์ต 654)	มาตรฐาน RFC 3561 การดำเนินการ

ที่อยู่ หมายเลขโทรศัพท์ครอบครัว

ที่อยู่ หมายเลขโทรศัพท์ครอบครัว	RFC 2453 , RFC 2677 , RFC 2858 1-16383: การดำเนินการตามมาตรฐาน 16384-32767: มาก่อนได้ก่อน
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พารามิเตอร์โปรโตคอลการแก้ไขที่อยู่ (ARP)

ประเภทฮาร์ดแวร์	RFC 826 และ RFC 5494 การร้องขอค่าที่ต่ำกว่า 256: การตรวจสอบโดยผู้เชี่ยวชาญ การร้องขอค่ามากกว่าหนึ่งค่า: การตรวจสอบโดยผู้เชี่ยวชาญ การร้องขอค่าเดียวที่มากกว่า 255: มาก่อนได้ก่อน
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	การร้องขอค่าเดียวโดยไม่ระบุค่า: มาก่อนได้ก่อน (ผู้เชี่ยวชาญ: คาร์ลอส ปิกนาตาโร)
รหัสการทำงาน	RFC 826 , RFC 5494 การตรวจสอบโดย IETF หรือการอนุมัติโดย IESG
ประเภทโปรโตคอล	RFC 826 , RFC 5494 , RFC 5342 พื้นที่ Ethertype ได้รับการจัดการตามที่อธิบายไว้ใน [RFC53
พารามิเตอร์ APEX	
แอปพลิเคชันปลายทาง APEX (Applicable Exchange Core)	การตรวจสอบโดยผู้เชี่ยวชาญสำหรับ RFC 3340 (ผู้เชี่ยวชาญ: ยังไม่ระบุ)
ตัวเลือก APEX (Applicable Exchange Core)	การตรวจสอบโดยผู้เชี่ยวชาญสำหรับ RFC 3340 (ผู้เชี่ยวชาญ: ยังไม่ระบุ)
บริการ APEX (Applicable Exchange Core)	การตรวจสอบโดยผู้เชี่ยวชาญสำหรับ RFC 3340 (ผู้เชี่ยวชาญ: ยังไม่ระบุ)
หมายเลขโปรโตคอลการเข้าถึงแอปพลิเคชัน (ACAP)	
ความสามารถของ ACAP	ข้อกำหนด RFC 2244 ที่จำเป็น (ผู้เชี่ยวชาญ: ยังไม่กำหนด)
รหัสตอบสนอง ACAP	RFC 2244 มาก่อนได้ก่อน
คลาสชุดข้อมูล	RFC 2244 มาตรฐานการดำเนินการ หรือ RFC ทดลองที่ได้รับการอนุมัติ
โครงสร้างย่อยของผู้ชาย	RFC 2244 , RFC 6075 มาก่อนได้ก่อน
พารามิเตอร์ Application Bridging for Federated Access Beyond Web (ABFAB)	
พารามิเตอร์ ABFAB URN	RFC 7833 การตรวจสอบโดย IETF หรือการตรวจสอบโดยผู้เชี่ยวชาญ (ผู้ เชี่ยวชาญ: ยังไม่ได้กำหนด)
โปรโตคอลการเพิ่มประสิทธิภาพการรับส่งข้อมูลระดับแอปพลิเคชัน (ALTO)	
ประเภทที่อยู่ ALTO	RFC 7285 การทบทวนโดย IETF
ตัวชี้วัดต้นทุนของ ALTO	RFC 7285 การทบทวนโดย IETF
โหมดต้นทุน ALTO	RFC 9274 การทบทวนโดย IETF
ประเภทแหล่งที่มาของต้นทุน ALTO	RFC 9439 การทบทวนของ IETF
ประเภทคุณสมบัติปลายทาง ALTO	RFC 7285 การทบทวนโดย IETF
ประเภทโดเมนเอ็นทีดี ALTO	RFC 9240 การทบทวนของ IETF
ประเภทคุณสมบัติของเอ็นทีดี ALTO	RFC 9240 การทบทวนของ IETF
รหัสข้อผิดพลาด ALTO	RFC 7285 การทบทวนโดย IETF
พารามิเตอร์การเข้ารหัสที่ตรวจสอบความถูกต้องพร้อมข้อมูลที่เกี่ยวข้อง (AEAD)	
อัลกอริทึม AEAD	RFC 5116 1-32767: ต้องมีข้อกำหนดเฉพาะ 32768-65535: สำหรับการใช้งานส่วนตัว (ผู้เชี่ยวชาญ: David McGrew, Bjoern Tackmann, Stanisl Smyshlyaev)
การตรวจสอบสิทธิ์และการอนุญาตสำหรับสภาพแวดล้อมที่มีข้อจำกัด (ACE)	
คำแนะนำในการสร้างคำขอเซิร์ฟเวอร์การอนุญาต ACE	RFC 9200 น้อยกว่า -65536: สำหรับการใช้งานส่วนตัว -65536 ถึง -257: ต้องมีข้อกำหนดเฉพาะ -256 ถึง 255: การดำเนินการตามมาตรฐาน 256 ถึง 65535: ต้องมีข้อกำหนดเฉพาะ

ข้อผิดพลาดของ ACE Groupcomm

มากกว่า 65535: การตรวจสอบโดยผู้เชี่ยวชาญ
(ผู้เชี่ยวชาญ: Göran Selander, Cigdem Sengul)

RFC 9594

น้อยกว่า -65536: สำหรับการใช้งานส่วนตัว
-65536 ถึง -257: ต้องมีข้อกำหนดเฉพาะ
-256 ถึง 255: การดำเนินการตามมาตรฐานพร้อมการตรวจสอบ
ผู้เชี่ยวชาญ
256 ถึง 65535: ต้องมีข้อกำหนดเฉพาะ
มากกว่า 65535: การตรวจสอบโดยผู้เชี่ยวชาญ
(ผู้เชี่ยวชาญ: Francesca Palombini, Marco Tiloca, Rikar Höglund)

ประเภทคีย์ ACE Groupcomm

RFC 9594

น้อยกว่า -65536: สำหรับการใช้งานส่วนตัว
-65536 ถึง -257: ต้องมีข้อกำหนด
-256 ถึง 255: การดำเนินการตามมาตรฐานพร้อมการตรวจสอบ
ผู้เชี่ยวชาญ
256 ถึง 65535: ต้องมีข้อกำหนด
มากกว่า 65535: การตรวจสอบโดยผู้เชี่ยวชาญ
สตริงที่มีความยาว 1: การดำเนินการตามมาตรฐานพร้อมการตรวจ
โดยผู้เชี่ยวชาญ
สตริงที่มีความยาว 2: ต้องมีข้อกำหนด
สตริงที่มีความยาวมากกว่า 2: การตรวจสอบโดยผู้เชี่ยวชาญ
(ผู้เชี่ยวชาญ: Francesca Palombini, Marco Tiloca, Rikar Höglund)

พารามิเตอร์ ACE Groupcomm

RFC 9594

น้อยกว่า -65536: สำหรับการใช้งานส่วนตัว
-65536 ถึง -257: ต้องมีข้อกำหนด
-256 ถึง 255: การดำเนินการตามมาตรฐานพร้อมการตรวจสอบ
ผู้เชี่ยวชาญ
256 ถึง 65535: ต้องมีข้อกำหนด
มากกว่า 65535: การตรวจสอบโดยผู้เชี่ยวชาญ
สตริงที่มีความยาว 1: การดำเนินการตามมาตรฐานพร้อมการตรวจ
โดยผู้เชี่ยวชาญ
สตริงที่มีความยาว 2: ต้องมีข้อกำหนด
สตริงที่มีความยาวมากกว่า 2: การตรวจสอบโดยผู้เชี่ยวชาญ
(ผู้เชี่ยวชาญ: Francesca Palombini, Marco Tiloca, Rikar Höglund)

นโยบายของ ACE Groupcomm

RFC 9594

น้อยกว่า -65536: สำหรับการใช้งานส่วนตัว
-65536 ถึง -257: ต้องมีข้อกำหนด
-256 ถึง 255: การดำเนินการตามมาตรฐานพร้อมการตรวจสอบ
ผู้เชี่ยวชาญ
256 ถึง 65535: ต้องมีข้อกำหนด
มากกว่า 65535: การตรวจสอบโดยผู้เชี่ยวชาญ
สตริงที่มีความยาว 1: การดำเนินการตามมาตรฐานพร้อมการตรวจ
โดยผู้เชี่ยวชาญ
สตริงที่มีความยาว 2: ต้องมีข้อกำหนด
สตริงที่มีความยาวมากกว่า 2: การตรวจสอบโดยผู้เชี่ยวชาญ
(ผู้เชี่ยวชาญ: Francesca Palombini, Marco Tiloca, Rikar Höglund)

โปรไฟล์ ACE Groupcomm

RFC 9594

น้อยกว่า -65536: สำหรับการใช้งานส่วนตัว
-65536 ถึง -257: ต้องมีข้อกำหนดเฉพาะ
-256 ถึง 255: การดำเนินการตามมาตรฐานพร้อมการตรวจสอบ
ผู้เชี่ยวชาญ
256 ถึง 65535: ต้องมีข้อกำหนดเฉพาะ
มากกว่า 65535: การตรวจสอบโดยผู้เชี่ยวชาญ
(ผู้เชี่ยวชาญ: Francesca Palombini, Marco Tiloca, Rikar Höglund)

โครงการเปลี่ยนรหัสกุญแจของ ACE Groupcomm

RFC 9594

น้อยกว่า -65536: สำหรับการใช้งานส่วนตัว
-65536 ถึง -257: ต้องมีข้อกำหนดเฉพาะ
-256 ถึง 255: การดำเนินการตามมาตรฐานพร้อมการตรวจสอบ
ผู้เชี่ยวชาญ
256 ถึง 65535: ต้องมีข้อกำหนดเฉพาะ
มากกว่า 65535: การตรวจสอบโดยผู้เชี่ยวชาญ

โปรไฟล์ ACE

(ผู้เชี่ยวชาญ: Francesca Palombini, Marco Tiloca, Rikar Höglund)

RFC 9200

น้อยกว่า -65536: สำหรับการใช้งานส่วนตัว
-65536 ถึง -257: ต้องมีข้อกำหนดเฉพาะ
-256 ถึง 255: การดำเนินการตามมาตรฐาน
256 ถึง 65535: ต้องมีข้อกำหนดเฉพาะ
มากกว่า 65535: การตรวจสอบโดยผู้เชี่ยวชาญ
(ผู้เชี่ยวชาญ: Göran Selander, Cigdem Sengul)

ข้อผิดพลาดในรายการเพิกถอนโทเค็น ACE

RFC 9770

น้อยกว่า -65536: สำหรับการใช้งานส่วนตัว
-65536 ถึง -257: ต้องมีข้อกำหนดเฉพาะ
-256 ถึง 255: การดำเนินการตามมาตรฐานพร้อมการตรวจสอบ
ผู้เชี่ยวชาญ
256 ถึง 65535: ต้องมีข้อกำหนดเฉพาะ
มากกว่า 65535: การตรวจสอบโดยผู้เชี่ยวชาญ
(ผู้เชี่ยวชาญ: ยังไม่ได้กำหนด)

พารามิเตอร์รายการเพิกถอนโทเค็น ACE

RFC 9770

น้อยกว่า -65536: สำหรับการใช้งานส่วนตัว
-65536 ถึง -257: ต้องมีข้อกำหนดเฉพาะ
-256 ถึง 255: การดำเนินการตามมาตรฐานพร้อมการตรวจสอบ
ผู้เชี่ยวชาญ
256 ถึง 65535: ต้องมีข้อกำหนดเฉพาะ
มากกว่า 65535: การตรวจสอบโดยผู้เชี่ยวชาญ
(ผู้เชี่ยวชาญ: ยังไม่ได้กำหนด)

การแมปประเภทโทเค็นการเข้าถึง OAuth CBOR

RFC 9200

น้อยกว่า -65536: การใช้งานส่วนตัว
-65536 หรือสูงกว่า: การตรวจสอบโดยผู้เชี่ยวชาญ
(ผู้เชี่ยวชาญ: Göran Selander, Cigdem Sengul)

การแมป CBOR รหัสข้อผิดพลาด OAuth

RFC 9200

น้อยกว่า -65536: การใช้งานส่วนตัว
-65536 หรือสูงกว่า: การตรวจสอบโดยผู้เชี่ยวชาญ
(ผู้เชี่ยวชาญ: Göran Selander, Cigdem Sengul)

การแมป CBOR ประเภทการให้สิทธิ์ OAuth

RFC 9200

น้อยกว่า -65536: การใช้งานส่วนตัว
-65536 หรือสูงกว่า: การตรวจสอบโดยผู้เชี่ยวชาญ
(ผู้เชี่ยวชาญ: Göran Selander, Cigdem Sengul)

การแมป CBOR พารามิเตอร์ OAuth

RFC 9200

น้อยกว่า -65536: การใช้งานส่วนตัว
-65536 หรือสูงกว่า: การตรวจสอบโดยผู้เชี่ยวชาญ
(ผู้เชี่ยวชาญ: Göran Selander, Cigdem Sengul)

การแมป CBOR ของการตอบสนองการตรวจสอบ
โทเค็น OAuth

RFC 9200

น้อยกว่า -65536: การใช้งานส่วนตัว
-65536 หรือสูงกว่า: การตรวจสอบโดยผู้เชี่ยวชาญ
(ผู้เชี่ยวชาญ: Göran Selander, Cigdem Sengul)

พารามิเตอร์บริบทความปลอดภัยของ OSCORE

RFC 9203

น้อยกว่า -65536: สำหรับการใช้งานส่วนตัว
-65536 ถึง -257: ต้องมีข้อกำหนด
-256 ถึง 255: การดำเนินการตามมาตรฐานพร้อมการตรวจสอบ
ผู้เชี่ยวชาญ
256 ถึง 65535: ต้องมีข้อกำหนด
มากกว่า 65535: การตรวจสอบโดยผู้เชี่ยวชาญ
สตริงที่มีความยาว 1: การดำเนินการตามมาตรฐานพร้อมการ
โดยผู้เชี่ยวชาญ
สตริงที่มีความยาว 2: ต้องมีข้อกำหนด
สตริงที่มีความยาวมากกว่า 2: การตรวจสอบโดยผู้เชี่ยวชาญ
(ผู้เชี่ยวชาญ: Göran Selander, Cigdem Sengul)

วิธีการชิงโครในซ์หมายเลขลำดับ

RFC 9594

น้อยกว่า -65536: สำหรับการใช้งานส่วนตัว
-65536 ถึง -257: ต้องมีข้อกำหนด
-256 ถึง 255: การดำเนินการตามมาตรฐานพร้อมการตรวจสอบ
ผู้เชี่ยวชาญ
256 ถึง 65535: ต้องมีข้อกำหนด
มากกว่า 65535: การตรวจสอบโดยผู้เชี่ยวชาญ

สตริงที่มีความยาว 1: การดำเนินการตามมาตรฐานพร้อมการ
โดยผู้เชี่ยวชาญ
สตริงที่มีความยาว 2: ต้องมีข้อกำหนด
สตริงที่มีความยาวมากกว่า 2: การตรวจสอบโดยผู้เชี่ยวชาญ
(ผู้เชี่ยวชาญ: Francesca Palombini, Marco Tiloca, Rikar
Höglund)

การตรวจสอบสิทธิ์และการตกลงรหัส (AKA)

แอมสเปชเวอร์ชัน AKA

การตรวจสอบโดยผู้เชี่ยวชาญ RFC 3310
(ผู้เชี่ยวชาญ: Vesa Torvinen (หลัก), Jari Arkko (รอง))

คำอ้างอิงวิธีการตรวจสอบสิทธิ์

คำอ้างอิงวิธีการตรวจสอบสิทธิ์

การตรวจสอบโดยผู้เชี่ยวชาญสำหรับ RFC 8176
(ผู้เชี่ยวชาญ: John Bradley, Mike Jones)

แอมสเปชตัวเลือกการตรวจสอบสิทธิ์

ค่าแอมสเปชของอัลกอริทึม

RFC 3118
การทบทวนของ IETF

ค่าแอมสเปชของโปรโตคอล

RFC 3118
การทบทวนของ IETF

ค่าแอมสเปช RDM

RFC 3118
การทบทวนของ IETF

พารามิเตอร์การตรวจสอบสิทธิ์ การอนุญาต และการบัญชี (AAA)

รหัสแอปพลิเคชัน

RFC 6733 , RFC 6942
0-16777215: ต้องมีข้อกำหนดเฉพาะ
16777216-4294967294: มาก่อนได้ก่อน
(ผู้เชี่ยวชาญ: ยังไม่ได้กำหนด)

รหัส AVP

การจัดสรรล๊อคตาม RFC 6733
(การปล่อย AVP มากกว่าสามรายการในคราวเดียวสำหรับวัตถุประสงค์ที่กำหนด): การตรวจสอบโดย IETF
การจัดสรรอื่นๆ: ต้องมีข้อกำหนด
(ผู้เชี่ยวชาญ: Lionel Morand (หลัก), Jouni Korhonen (รอง))

ค่าธง AVP

มาตรฐาน RFC 6733 การดำเนินการ

ค่าเฉพาะของ AVP

RFC 6733
การตรวจสอบโดย IETF (เว้นแต่จะระบุไว้เป็นอย่างอื่น)

รหัสคำสั่ง

RFC 6733 , RFC 5719
0-255: สงวนไว้สำหรับความเข้ากันได้แบบย้อนหลังกับ RADIUS
256-8388607: การตรวจสอบโดย IETF
8388608-16777213: มาก่อนได้ก่อนตามข้อกำหนด

ธงคำสั่ง

มาตรฐาน RFC 6733 การดำเนินการ

ทะเบียนความสามารถด้านการเคลื่อนย้าย

ข้อกำหนด RFC 5447
ที่จำเป็น (ผู้เชี่ยวชาญ: Jouni Korhonen)

โปรไฟล์คุณภาพบริการ (QoS Profiles)

RFC 5624
0-511: การดำเนินการตามมาตรฐาน
512-32767: ข้อกำหนดที่จำเป็น
32768-4294967295: สงวนไว้
(ผู้เชี่ยวชาญ: ยังไม่ได้กำหนด)

พารามิเตอร์ Author Domain Signing Practices (ADSP)

แนวปฏิบัติในการลงนามขาออกของ ADSP

RFC 5617
การลงทะเบียนถูกปิดแล้ว

แท็กข้อมูลจำเพาะ ADSP

RFC 5617
การลงทะเบียนถูกปิดแล้ว

โปรโตคอลสภาพแวดล้อมการจัดการใบรับรองอัตโนมัติ (ACME)

ฟิลด์ออบเจกต์บัญชี ACME

ข้อกำหนด RFC 8555
ที่จำเป็น (ผู้เชี่ยวชาญ: Richard Barnes, Aaron Gable)

ประเภทการทำหายโทเค็นอำนาจ ACME

ข้อกำหนด RFC 9447
ที่จำเป็น (ผู้เชี่ยวชาญ: แมรี บาร์นส์, แอรอน เกเบิล)

ฟิลด์ออบเจกต์การอนุญาต ACME

ข้อกำหนด RFC 8555
ที่จำเป็น (ผู้เชี่ยวชาญ: Richard Barnes, Aaron Gable)

ฟิลด์การต่ออายุอัตโนมัติของเมตาเดต้าใน ACME	ข้อกำหนด RFC 8739 ที่จำเป็น (ผู้เชี่ยวชาญ: Yaron Sheffer, Diego R. Lopez, Thibault Fossati, Aaron Gable)
ฟิลด์เมตาเดต้าของไดเรกทอรี ACME	ข้อกำหนด RFC 8555 ที่จำเป็น (ผู้เชี่ยวชาญ: Richard Barnes, Aaron Gable)
ประเภทข้อผิดพลาดของ ACME	ข้อกำหนด RFC 8555 ที่จำเป็น (ผู้เชี่ยวชาญ: Richard Barnes, Aaron Gable)
ประเภทตัวระบุ ACME	ข้อกำหนด RFC 8555 ที่จำเป็น (ผู้เชี่ยวชาญ: Richard Barnes, Aaron Gable)
ช่องข้อมูลการต่ออายุอัตโนมัติของคำสั่งชื่อ ACME	ข้อกำหนด RFC 8739 ที่จำเป็น (ผู้เชี่ยวชาญ: Yaron Sheffer, Diego R. Lopez, Thibault Fossati, Aaron Gable)
ฟิลด์ออบเจกต์คำสั่งชื่อ ACME	ข้อกำหนด RFC 8555 ที่จำเป็น (ผู้เชี่ยวชาญ: Richard Barnes, Aaron Gable)
ฟิลด์ออบเจกต์ ACME RenewalInfo	ข้อกำหนด RFC 9773 ที่จำเป็น (ผู้เชี่ยวชาญ: Richard Barnes, Aaron Gable)
ประเภททรัพยากร ACME	ข้อกำหนด RFC 8555 ที่จำเป็น (ผู้เชี่ยวชาญ: Richard Barnes, Aaron Gable)
วิธีการตรวจสอบความถูกต้องของ ACME	ข้อกำหนด RFC 8555 ที่จำเป็น (ผู้เชี่ยวชาญ: Richard Barnes, Aaron Gable)
ส่วนขยายเพิ่มเติม CSR ของ STAR Delegation	ข้อกำหนด RFC 9115 ที่จำเป็น (ผู้เชี่ยวชาญ: Yaron Sheffer, Diego R. Lopez, Thibault Fossati, Aaron Gable)
การตอบกลับอัตโนมัติสำหรับพารามิเตอร์อีเมล	
คำหลักในช่องส่วนหัวที่ส่งโดยอัตโนมัติ	ข้อกำหนด RFC 5436 ที่จำเป็น (ผู้เชี่ยวชาญ: ยังไม่กำหนด)
พารามิเตอร์เสริมของช่องส่วนหัวที่ส่งโดยอัตโนมัติ	RFC 3834 การทบทวนของ IETF
ระนาบควบคุมอัตโนมัติ (ACP)	
ประเภทที่อยู่ ACP	มาตรฐาน RFC 8994 การดำเนินการ
หมายเลขระบบอัตโนมัติ (AS)	
หมายเลขระบบอัตโนมัติ 16 บิต	RFC 1930 , RFC 5398 , RFC 6996 , RFC 7249 คำขอ RIR ไปยัง IANA หรือ IETF Review จัดสรรตามนโยบายโลกที่เผยแพร่ ที่ http://www.icann.org/en/resources/policy/global-addressing
หมายเลขระบบอัตโนมัติ 32 บิต	RFC 1930 , RFC 5398 , RFC 6793 , RFC 6996 , RFC 7249 คำขอ RIR ไปยัง IANA หรือ IETF Review จัดสรรตามนโยบายโลกที่เผยแพร่ ที่ http://www.icann.org/en/resources/policy/global-addressing
หมายเลข AS สำหรับวัตถุประสงค์พิเศษ	RFC 7249 การทบทวนของ IETF
	ปี
โปรโตคอลการกำหนดเส้นทาง Babel	
การเข้ารหัสที่อยู่ Babel	RFC 8966 0-223: ต้องมีข้อกำหนดเฉพาะ 224-254: ใช้ในเชิงทดลอง (ผู้เชี่ยวชาญ: Juliusz Chroboczek, Donald Eastlake)
Babel Hello Flags Values	RFC 8966 Specification Required (Expert: Juliusz Chroboczek, Donald Eastlake)
Babel Sub-TLV Types	RFC 8966 0-111: Specification Required. 112-126: Experimental Use. 128-239: Specification Required.

	240-254: Experimental Use. (Expert: Juliusz Chroboczek, Donald Eastlake)
Babel TLV Types	RFC 8966 0-223: Specification Required. 224-254: Experimental Use. (Expert: Juliusz Chroboczek, Donald Eastlake)
Babel Update Flags Values	RFC 8966 Specification Required (Expert: Juliusz Chroboczek, Donald Eastlake)
Battery Technologies	
Battery Technologies	RFC 7577 Expert Review (Expert: Unassigned)
BGP Monitoring Protocol (BMP) Parameters	
BMP Initiation Information TLVs	RFC 7854 , RFC 9069 , RFC 9515 , RFC 9736 0-32767: Standards Action. 32768-65530: First Come First Served. 65531-65534: Experimental Use.
BMP Message Types	RFC 7854 0-127: Standards Action. 128-250: Specification Required. 251-254: Experimental Use. (Expert: John G. Scudder, Rex Fernando (rex), Paolo Lu)
BMP Peer Down Reason Codes	RFC 7854 0-127: Standards Action. 128-250: Specification Required. 251-254: Experimental Use. (Expert: John G. Scudder, Rex Fernando (rex), Paolo Lu)
BMP Peer Flags for Loc-RIB Instance Peer Type 3	RFC 9069 Standards Action
BMP Peer Flags for Peer Types 0 through 2	RFC 7854 , RFC 9069 Standards Action
BMP Peer Types	RFC 7854 0-127: Standards Action. 128-250: Specification Required. 251-254: Experimental Use. (Expert: John G. Scudder, Rex Fernando (rex), Paolo Lu)
BMP Peer Up Message TLVs	RFC 9736 0, 3-32767: Standards Action. 32768-65530: First Come First Served. 65531-65534: Experimental Use.
BMP Route Mirroring Information Codes	RFC 7854 , RFC 9515 0-32767: Standards Action. 32768-65530: First Come First Served. 65531-65534: Experimental Use.
BMP Route Mirroring TLVs	RFC 7854 , RFC 9515 0-32767: Standards Action. 32768-65530: First Come First Served. 65531-65534: Experimental Use.
BMP Statistics Types	RFC 7854 , RFC 9515 0-32767: Standards Action. 32768-65530: First Come First Served. 65531-65534: Experimental Use.
BMP Termination Message Reason Codes	RFC 7854 , RFC 9515 0-32767: Standards Action. 32768-65530: First Come First Served. 65531-65534: Experimental Use.
BMP Termination Message TLVs	RFC 7854 , RFC 9515 0-32767: Standards Action. 32768-65530: First Come First Served. 65531-65534: Experimental Use.

BGP Shortest Path First (BGP SPF)

BGP-LS-SPF Link NLRI Attribute SPF Status TLV Values	RFC 9815 IETF Review
BGP-LS-SPF Node NLRI Attribute SPF Status TLV Values	RFC 9815 Expert Review (Expert: Jie Dong, Derek Yeung)
BGP-LS-SPF Prefix NLRI Attribute SPF Status TLV Values	RFC 9815 IETF Review

Bidirectional Forwarding Detection (BFD) Parameters

BFD Authentication Types	RFC 5880 Expert Review (Expert: Jeff Haas, Les Ginsberg)
BFD Diagnostic Codes	RFC 5880 Expert Review (Expert: Jeff Haas, Les Ginsberg)

Bit Index Explicit Replication (BIER)

BIER Algorithm	RFC 8401 , RFC 9272 0-127: Standards Action. 128-239: Specification Required. 240-254: Private or Experimental Use. (Expert: Les Ginsberg, Chris Hopps)
BIER Next Protocol Identifiers	RFC 8296 IETF Review

Blocks Extensible Exchange Protocol (BEEP) Parameters

BEEP Features	RFC 3080 Expert Review (Expert: Marshall T. Rose)
BEEP Profiles	RFC 3080 Expert Review (Expert: Marshall T. Rose)

Bootstrapping Remote Secure Key Infrastructures (BRSKI) Parameters

BRSKI Well-Known URIs	RFC 8995 Specification Required (Expert: Michael Richardson, T Eckert)
Pledge BRSKI Status Telemetry Attributes	RFC 8995 Specification Required (Expert: Michael Richardson)

Border Gateway Protocol (BGP) Parameters

Additional PMSI Tunnel Attribute Flags	RFC 7902 Standards Action
ARP/ND Extended Community Flags	RFC 9047 Standards Action
BFD Discriminator Optional TLV Type	RFC 9026 0-175: IETF Review. 176-249: First Come First Served. 250-254: Experimental Use. 255: IETF Review.
BFD Mode	RFC 9026 0-175: IETF Review. 176-249: First Come First Served. 250-254: Experimental Use. 255: IETF Review.
BGP AIGP Attribute Types	RFC 7311 Standards Action
BGP BIER TLV and Sub-TLV Types	RFC 9793 First Come First Served
BGP CAR NLRI TLV Types	RFC 9871 Specification Required (Expert: Bruno Decraene, Swa Agrawal)
BGP CAR NLRI Types	RFC 9871 Specification Required (Expert: Bruno Decraene, Swa Agrawal)

BGP Data Collection Standard Communities	RFC 4384 IETF Review
BGP Error (Notification) Codes	RFC 4271, RFC 7313 Standards Action
BGP Error Subcodes	RFC 4271 Standards Action
BGP Graceful Restart Flags	RFC 4724, RFC 8538 Standards Action
BGP Graceful Restart Flags for Address Family	RFC 4724, RFC 8538 Standards Action
BGP Layer 2 Encapsulation Types	RFC 6624 0-127: Expert Review. 128-251: First Come First Served. 252-255: Experimental Use.
BGP Layer 2 TLV Types	RFC 6624 0-127: Expert Review. 128-251: First Come First Served. 252-255: Experimental Use.
BGP MCAST-VPN Route Types	RFC 7441, RFC 6514 Standards Action
BGP Message Types	RFC 4271 Standards Action
BGP Non-Transitive Extended Community Types	RFC 7153 0x40-0x7f: First Come First Served. 0xc0-0xcf: Reserved for Experimental Use. 0xd0-0xff: Standards Action.
BGP OPEN Optional Parameter Types	RFC 5492 IETF Review
BGP Outbound Route Filtering (ORF) Types	RFC 5291 0-63: Standards Action. 64-127: First Come First Served. 128-255: Vendor-Specific.
BGP Path Attributes	RFC 4271 Standards Action
BGP Prefix-SID Label-Index TLV Flags	RFC 8669 Expert Review (Expert: Acee Lindem, Hannes Gredler)
BGP Prefix-SID Originator SRGB TLV Flags	RFC 8669 Expert Review (Expert: Acee Lindem, Hannes Gredler)
BGP Prefix-SID TLV Types	RFC 8669 Expert Review (Expert: Acee Lindem, Hannes Gredler)
BGP Role Value	RFC 9234 IETF Review
BGP Route Refresh Subcodes	RFC 7313 0-127: Standards Action. 128-254: First Come First Served.
BGP SRv6 Service SID Flags	RFC 9252 IETF Review
BGP Transitive Extended Community Types	RFC 7153, RFC 9184 0x00-0x3f: First Come First Served. 0x80-0x82: First Come First Served. 0x83-0x8f: Reserved for Experimental Use. 0x90-0xbf: Standards Action.
BGP Well-known Communities	RFC 1997, RFC 8642 0x00000000-0x0000FFFF: Reserved. 0x00010000-0xFFFFFFF: Private Use. 0xFFFF0000-0xFFFF8000: First Come First Served. 0xFFFF8001-0xFFFFFFFF: Standards Action.

Capability Codes	RFC 5492 , RFC 8810 1-63: IETF Review. 64-238: First Come First Served. 239-254: Experimental Use.
Context-Specific Label Space ID Type	RFC 9573 First Come First Served
DF Alg	RFC 8584 RFC Required
DF Election Capabilities	RFC 8584 RFC Required
E-Tree Flags	RFC 8317 RFC Required
EVPN ESI Label Extended Community Flags	RFC 9746 IETF Review
EVPN Extended Community Sub-Types	RFC 7153 0x00-0xbf: First Come First Served. 0xc0-0xff: IETF Review.
EVPN Layer 2 Attributes Control Flags	RFC 8214 RFC Required
Generic Transitive Extended Community Part 2 Sub-Types	RFC 8955 , RFC 9184 0x00-0xbf: First Come First Served. 0xc0-0xff: IETF Review.
Generic Transitive Extended Community Part 3 Sub-Types	RFC 8955 , RFC 9184 0x00-0xbf: First Come First Served. 0xc0-0xff: IETF Review.
Generic Transitive Extended Community Sub-Types	RFC 7153 , RFC 9184 0x00-0xbf: First Come First Served. 0xc0-0xff: IETF Review.
Layer2 Info Extended Community Control Flags Bit Vector	RFC 8395 IETF Review
Long-Lived Graceful Restart Flags for Address Family	RFC 9494 Standards Action
Multicast Flags Extended Community	RFC 9251 First Come First Served
Multihoming Redundancy Mode	RFC 9746 IETF Review
Non-Transitive Four-Octet AS-Specific Extended Community Sub-Types	RFC 7153 0x00-0xbf: First Come First Served. 0xc0-0xff: IETF Review.
Non-Transitive IPv4-Address-Specific Extended Community Sub-Types	RFC 7153 0x00-0xbf: First Come First Served. 0xc0-0xff: IETF Review.
Non-Transitive IPv6-Address-Specific Extended Community Types	RFC 7153 First Come First Served
Non-Transitive Opaque Extended Community Sub-Types	RFC 7153 0x00-0xbf: First Come First Served. 0xc0-0xff: IETF Review.
Non-Transitive Transport Class Extended Community Sub-Types	RFC 9832 0x00-0xbf: First Come First Served. 0xc0-0xff: IETF Review.
Non-Transitive Two-Octet AS-Specific Extended Community Sub-Types	RFC 7153 0x00-0xbf: First Come First Served. 0xc0-0xff: IETF Review.
P-Multicast Service Interface (PMSI) Tunnel Attribute Flags	RFC 7902 Standards Action
P-Multicast Service Interface Tunnel (PMSI Tunnel) Tunnel Types	RFC 7385 , RFC 8317 0x00-0x7A: IETF Review.

	0x7B-0x7E: Experimental Use. 0x80-0xFA: Composite Tunnel. 0xFB-0xFE: Experimental Use. 0xFF: Standards Action.
Region Identifiers (<R>)	RFC 4384 Not defined
SFC Extended Community Sub-Types	RFC 9015 First Come First Served
SFC SPI/SI Representation Flags	RFC 9015 Standards Action
SFP Association Type	RFC 9015 First Come First Served
SFP Attribute TLVs	RFC 9015 First Come First Served
Split-Horizon Type	RFC 9746 IETF Review
SRv6 Service Data Sub-Sub-TLV Types	RFC 9252 0-127: IETF Review. 128-254: First Come First Served. 255: IETF Review.
SRv6 Service Sub-TLV Types	RFC 9252 0-127: IETF Review. 128-254: First Come First Served. 255: IETF Review.
Traffic Action Fields	RFC 8955 IETF Review
Transitive Four-Octet AS-Specific Extended Community Sub-Types	RFC 7153 0x00-0xbf: First Come First Served. 0xc0-0xff: IETF Review.
Transitive IPv4-Address-Specific Extended Community Sub-Types	RFC 7153 0x00-0xbf: First Come First Served. 0xc0-0xff: IETF Review.
Transitive IPv6-Address-Specific Extended Community Types	RFC 7153 First Come First Served
Transitive Opaque Extended Community Sub-Types	RFC 7153 0x00-0xbf: First Come First Served. 0xc0-0xff: IETF Review.
Transitive Transport Class Extended Community Sub-Types	RFC 9832 0x00-0xbf: First Come First Served. 0xc0-0xff: IETF Review.
Transitive Two-Octet AS-Specific Extended Community Sub-Types	RFC 7153 0x00-0xbf: First Come First Served. 0xc0-0xff: IETF Review.

Border Gateway Protocol (BGP) Tunnel Encapsulation

BGP Tunnel Encapsulation Attribute Sub-TLVs	RFC 9012 1-63: Standards Action. 64-125: First Come First Served. 126-127: Experimental Use. 128-191: Standards Action. 192-252: First Come First Served. 253-254: Experimental Use.
BGP Tunnel Encapsulation Attribute Tunnel Types	RFC 9012 First Come First Served
Color Extended Community Color-Only Types	RFC 9830 Standards Action
Color Extended Community Flags	RFC 9012 Standards Action

Embedded Label Handling Sub-TLVs	RFC 9012 Standards Action
Flags Field of NVGRE Encapsulation Sub-TLVs	RFC 9012 Standards Action
Flags Field of VXLAN Encapsulation Sub-TLVs	RFC 9012 Standards Action
SR Policy Binding SID Flags	RFC 9830 Standards Action
SR Policy Segment Flags	RFC 9830 IETF Review
SR Policy Segment List Sub-TLVs	RFC 9830 IETF Review
SR Policy SRv6 Binding SID Flags	RFC 9830 Standards Action

Border Gateway Protocol - Link State (BGP-LS) Parameters

BGP-LS IGP Prefix Flags	RFC 9552 Expert Review (Expert: Adrian Farrel, Hannes Gredler)
BGP-LS MPLS Protocol Mask	RFC 9552 Expert Review (Expert: Adrian Farrel, Hannes Gredler)
BGP-LS NLRI and Attribute TLVs	RFC 9552 0-255: Reserved (not to be allocated). 256-64999: Expert Review. 65000-65535: Private Use. (Expert: Hannes Gredler (primary), Adrian Farrel (sec
BGP-LS NLRI Types	RFC 9552 1-64999: Expert Review. 65000-65535: Private Use. (Expert: Hannes Gredler (primary), Adrian Farrel (sec
BGP-LS Node Flags	RFC 9552 Expert Review (Expert: Adrian Farrel, Hannes Gredler)
BGP-LS Protocol-IDs	RFC 9552 1-199: Expert Review. 200-255: Private Use. (Expert: Hannes Gredler (primary), Adrian Farrel (sec
BGP-LS SR Policy Metric Types	RFC 9857 Expert Review (Expert: Stephane Litkowski, Jie Dong)
BGP-LS SR Segment Descriptor Types	RFC 9857 Expert Review (Expert: Matthew Bocci, Zafar Ali)
BGP-LS Well-Known Instance-IDs (OBSOLETE)	RFC 9552 Registry closed
SRv6 BGP EPE SID Flags	RFC 9514 Standards Action

BPF Instructions

BPF Instruction Conformance Groups	RFC 9669 Permanent: Standards Action or IESG Approval. Provisional: Specification Required. Historical: Specification Required. (Expert: Alexei Starovoitov, David Vernet)
BPF Instruction Set	RFC 9669 Permanent: Standards Action or IESG Approval. Provisional: Specification Required. Historical: Specification Required. (Expert: Alexei Starovoitov, David Vernet)

Building Blocks

Building Blocks	RFC 3048 Specification Required (Expert: Unassigned)
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Bundle Protocol

Block Processing Control Flags	RFC 6255, RFC 9171 Specification Required (Expert: Scott Burleigh, Fred Tr...
BPSec BCB-AES-GCM AAD Scope Flags	RFC 9173 Specification Required (Expert: Ken McKeever, Edward Birrane)
BPSec BIB-HMAC-SHA2 Integrity Scope Flags	RFC 9173 Specification Required (Expert: Ken McKeever, Edward Birrane)
BPSec Security Context Identifiers	RFC 9172 Specification Required (Expert: Ken McKeever, Edward Birrane)
Bundle Administrative Record Types	RFC 7116, RFC 9713 Specification Required (Expert: Marc Blanchet, Keith S...
Bundle Block Types	RFC 6255, RFC 9171 Specification Required (Expert: Scott Burleigh, Fred Tr...
Bundle Custody Signal Reason Codes	RFC 6255 Specification Required (Expert: Scott Burleigh, Fred Tr...
Bundle Metadata Type Codes	RFC 6258 Specification Required (Expert: Rick Taylor)
Bundle Processing Control Flags	RFC 6255, RFC 9171 Specification Required (Expert: Scott Burleigh, Fred Tr...
Bundle Protocol TCP Convergence-Layer Message Types	RFC 7242 RFC Required
Bundle Protocol TCP Convergence-Layer REFUSE_BUNDLE Reason Codes	RFC 7242 RFC Required
Bundle Protocol TCP Convergence-Layer SHUTDOWN Reason Codes	RFC 7242 RFC Required
Bundle Protocol TCP Convergence-Layer Version 4 Message Types	RFC 9174 RFC Required
Bundle Protocol TCP Convergence-Layer Version 4 MSG_REJECT Reason Codes	RFC 9174 Specification Required (Expert: Brian Sipos, Rick Tayl...
Bundle Protocol TCP Convergence-Layer Version 4 SESS_TERM Reason Codes	RFC 9174 Specification Required (Expert: Brian Sipos, Rick Tayl...
Bundle Protocol TCP Convergence-Layer Version 4 Session Extension Types	RFC 9174 Expert Review (Expert: Brian Sipos, Rick Taylor)
Bundle Protocol TCP Convergence-Layer Version 4 Transfer Extension Types	RFC 9174 Expert Review (Expert: Brian Sipos, Rick Taylor)
Bundle Protocol TCP Convergence-Layer Version 4 XFER_REFUSE Reason Codes	RFC 9174 Specification Required (Expert: Brian Sipos, Rick Tayl...
Bundle Protocol TCP Convergence-Layer Version Numbers	RFC 7242 RFC Required
Bundle Protocol URI Scheme Types	RFC 9171 Standards Action
Bundle Status Report Flags	RFC 6255 RFC Required
Bundle Status Report Reason Codes	RFC 6255, RFC 9171 Specification Required (Expert: Scott Burleigh, Fred Tr...
CBHE Service Numbers	RFC 7116 0-63: Specification Required. 1024-65535: Specification Required. (Expert: Marc Blanchet, Keith Scott)
Ciphersuite Flags	RFC 6257 Specification Required (Expert: Stephen Farrell, Edwa Birrane)
Ciphersuite Numbers	RFC 6257 Specification Required (Expert: Stephen Farrell, Edwa...

	Birrane)
Ciphersuite Parameters and Results Type Registry	RFC 6257 Specification Required (Expert: Stephen Farrell, Edwa Birrane)
Primary Bundle Protocol Version	RFC 6255 RFC Required C
C-DNS DNS Capture Format	
C-DNS Address Event Types	RFC 8618 Expert Review (Expert: Jim Hague, Sara Dickinson, Jo Dickinson)
C-DNS Response Flags	RFC 8618 Expert Review (Expert: Jim Hague, Sara Dickinson, Jo Dickinson)
C-DNS Storage Flags	RFC 8618 Expert Review (Expert: Jim Hague, Sara Dickinson, Jo Dickinson)
C-DNS Transports	RFC 8618 Expert Review (Expert: Jim Hague, Sara Dickinson, Jo Dickinson)
Caller-ID Numbering Plans	
Caller-ID Numbering Plans Tokens	RFC 3939 Standards Action
Candidate Access Router Discovery (CARD) Parameters	
AVP Type Registry	RFC 4065 Expert Review (Expert: Unassigned)
Experimental Mobility Protocol Subtype Registry	RFC 4065 Specification Required and IESG Review (Expert: Unassigned)
Layer 2 Access Technology Identifier Registry	RFC 4065 Specification Required (Expert: Unassigned)
Captive Portals	
Captive Portal API Keys	RFC 8908 Specification Required (Expert: Tommy Pauly, Darsha Thakore, Martin Thomson)
CBOR Object Signing and Encryption (COSE)	
COSE Algorithms	RFC 9053 , RFC 9054 , RFC 9864 Integers less than -65536: Private Use. Integer values from -65536 to -257: Specification Required Integer values between -256 and 255: Standards Action Expert Review. Integer values from 256 to 65535: Specification Required Integer values greater than 65535: Expert Review. Strings of length 1: Standards Action With Expert Review Strings of length 2: Specification Required. Strings of length greater than 2: Expert Review. (Expert: Göran Selander, Derek Atkins, Sean Turner)
COSE Elliptic Curves	RFC 9053 Integers less than -65536: Private Use. Integer values -65536 to -257: Specification Required Integer values -256 to 255: Standards Action With Expert Review. Integer values 256 to 65535: Specification Required. Integer values greater than 65535: Expert Review. (Expert: Göran Selander, Derek Atkins, Sean Turner)
COSE Header Algorithm Parameters	RFC 9053 Expert Review (Expert: Göran Selander, Derek Atkins, Sean Turner)

COSE Header Parameters	RFC 9052 Integers less than -65536: Private Use. Integer values in the range -1 to -65536: delegated to COSE Header Algorithm Parameters registry. Integer values between 1 and 255: Standards Action ' Expert Review. Integer values from 256 to 65535: Specification Requ Integer values greater than 65535: Expert Review. Strings of length 1: Standards Action With Expert Rev Strings of length 2: Specification Required. Strings of length greater than 2: Expert Review. (Expert: Francesca Palombini, Carsten Bormann)
COSE Key Common Parameters	RFC 9052 Integers less than -65536: Private Use. Integer values in the range -65536 to -1: used for key parameters specific to a single algorithm delegated to COSE Key Type Parameters registry. Integer values between 0 and 255: Standards Action ' Expert Review. Integer values from 256 to 65535: Specification Requ Integer values greater than 65535: Expert Review. Strings of length 1: Standards Action With Expert Rev Strings of length 2: Specification Required. Strings of length greater than 2: Expert Review. (Expert: Francesca Palombini, Carsten Bormann)
COSE Key Type Parameters	RFC 9053 Expert Review (Expert: Göran Selander, Derek Atkins, Turner)
COSE Key Types	RFC 9053 Expert Review (Expert: Göran Selander, Derek Atkins, Turner)
COSE Verifiable Data Structure Algorithms	draft-ietf-cose-merkle-tree-proofs-18 Specification Required (Expert: Mike Jones, Ori Steel)
COSE Verifiable Data Structure Proofs	draft-ietf-cose-merkle-tree-proofs-18 Specification Required (Expert: Mike Jones, Ori Steel)
CBOR Web Token (CWT) Claims	
CBOR Web Token (CWT) Claims	RFC 8392 Integer values from -256 to 255: Standards Action. Integer values from -65536 to -257: Specification Req Integer values from 256 to 65535: Specification Requ Integer values greater than 65535: Expert Review. Strings of length 1: Standards Action. Strings of length 2: Specification Required. Strings of length greater than 2: Expert Review. (Expert: Mike Jones, Hannes Tschofenig, Ludwig Seitz)
CWT Confirmation Methods	RFC 8747 Specification Required (Expert: Ludwig Seitz, Mike Jor
Centralized Conferencing Manipulation Protocol (CCMP) Parameters	
CCMP Message Types	RFC 6503 Specification Required (Expert: Unassigned)
CCMP Response Codes	RFC 6503 Specification Required (Expert: Unassigned)
CERT RR Certificate Types	
CERT RR Certificate Types	RFC 4398 0x0000-0x00FF: Standards Action. 0xFF00-0xFFFF: Standards Action. 0x0100-0xFEFF: IETF Review.
Certificate Management Protocol (CMP)	
CMP Well-Known URI Path Segments	RFC 9811 Specification Required (Expert: Hendrik Brockhaus, D Oheimb, John Gray)

Channel-Binding Types

[Channel-Binding Types](#) [RFC 5056](#)
Expert Review (Expert: Nicolas Williams)

Character Sets

[Character Set Registrations](#) [RFC 2978](#)
Expert Review (Expert: Martin Dürst)

[Character Sets](#) [RFC 2978](#)
Expert Review (Expert: Martin Dürst)

[Character Sets Mailing List Information](#) [RFC 2978](#)
Expert Review

Cisco Service Level Assurance Protocol

[Cisco SLA Protocol Address Family Registry](#) [RFC 6812](#)
Specification Required (Expert: Unassigned)

[Cisco SLA Protocol Authenticator Modes Registry](#) [RFC 6812](#)
RFC Required

[Cisco SLA Protocol CSLD Command Registry](#) [RFC 6812](#)
RFC Required

[Cisco SLA Protocol Measurement-Type Registry](#) [RFC 6812](#)
RFC Required

[Cisco SLA Protocol Roles Registry](#) [RFC 6812](#)
RFC Required

[Cisco SLA Protocol Status Types Registry](#) [RFC 6812](#)
First Come First Served

[Cisco SLA Protocol Version Number Registry](#) [RFC 6812](#)
RFC Required

CoAP-EAP

[CoAP-EAP Cipher Suites](#) [RFC 9820](#)
-65536..-25: Specification Required.
-24..-21: Private Use.
-20..23: Standards Action with Expert Review.
24..65535: Specification Required.
(Expert: Marco Tiloca, Alan DeKok)

[CoAP-EAP Information Elements](#) [RFC 9820](#)
0-23: Standards Action with Expert Review.
24-49: Private Use.
50-65000: Specification Required.
65001-65535: Experimental Use.
(Expert: Marco Tiloca, Alan DeKok)

Common Architecture Label IPv6 Security Option (CALIPSO)

[CALIPSO Domain of Interpretation \(DOI\)](#) [RFC 5570](#)
1:0:0:0 - 254:255:255:255: Expert Review.
255:0:0:0 - 255:255:255:255: IESG Approval.
(Expert: Unassigned)

Common Name Resolution Protocol (CNRP) Parameters

[Properties](#) [RFC 3367](#)
First Come First Served

[Property Types](#) [RFC 3367](#)
First Come First Served

[Status Messages](#) [RFC 3367](#)
First Come First Served

Common Open Policy Service (COPS) Protocol

[A-types](#) [RFC 3182](#)
0-127: IETF Review.
128-255: Private Use.

[ADMISSION_PRI \(P-Type 0x05\) Error Codes](#) [RFC 6401](#)
0-127: IETF Review.

	128-240: First Come First Served.
C-Num and C-Type Values	RFC 2748 IETF Review
Client Types Values	RFC 2748
Client-type = 0 Flags and Error-SubCodes	RFC 4261 IETF Review
COPS-PR Object S-Num, S-Types, and Error-Codes	RFC 3084 IETF Review
M-Types, Reason Sub-Codes, and Error Sub-codes	RFC 2748 Values are assigned relative to the respective Client-t
Merge Strategies	RFC 6401 0-127: IETF Review. 128-240: First Come First Served.
P-types	RFC 2750 0-49151: IETF Review. 49152-53247: First Come First Served. 53248-65535: Reserved for Private Use.
R-Types, Reason-Codes, Report-Types, Decision Object Command-Codes/Flags, and Error-Codes	RFC 2748 IETF Review
Receiver Proxy Control Policy Element (P-Type 0x07) Control-Value field	RFC 5946 0-127: IETF Review. 128-240: First Come First Served.
Common Presence and Instant Messaging (CPIM) Headers	
CPIM Headers	RFC 3862 Standards Action
Concise Binary Object Representation (CBOR)	
CBOR Simple Values	RFC 8949 0-19: Standards Action. 32-255: Specification Required. (Expert: Carsten Bormann)
CBOR Tags	RFC 8949 0-23: Standards Action. 24-32767: Specification Required. 32768-18446744073709551615: First Come First Serv (Expert: Christian Amsüss, Thomas Fossati, Francesca Palombini, Carsten Bormann (backup))
Time Tag Map Keys	RFC 9581 Specification Required (Expert: Henk Birkholz, Esko D
Timescales	RFC 9581 RFC and Expert Review Required (Expert: Henk Birkh Dijk)
Concise Data Definition Language (CDDL)	
CDDL Control Operators	RFC 8610 name includes internal dot: IETF Review. name does not include internal dot: Specification Rec (Expert: Jeffrey Yasskin, Henk Birkholz)
Concise Software Identifier (CoSWID)	
CoSWID Items	RFC 9393 0-32767: Standards Action with Expert Review. 32768-4294967295: Specification Required. (Expert: Charles Schmidt, Jessica Fitzgerald-McKay, H Birkholz)
Connectivity Fault Management (CFM) OAM IETF Parameters	
CFM OAM IETF OpCodes	RFC 7319 Standards Action

[CFM OAM IETF TLV Types](#)[RFC 7319](#)

Standards Action

Constrained RESTful Environments (CoRE) Parameters[CoAP Codes](#)[RFC 7252](#)Reserved ranges may be allocated in accordance with 4.3 of [RFC 8126](#).[CoAP Content-Formats](#)[RFC 7252](#), [RFC 9876](#)

0-255: Expert Review.

256-9999: IETF Review with Expert Review or IESG Ap with Expert Review.

10000-19999: Expert Review.

20000-32999: First Come First Served.

33000-64997: Expert Review.

64998-64999: Reserved for Documentation.

65000-65535: Experimental Use.

(Expert: Esko Dijk (primary), Klaus Hartke (secondary)

Carsten Bormann (secondary), Jaime Jimenez (second

Alexander Pelov (secondary))

[CoAP Option Numbers](#)[RFC 7252](#)

0-255: IETF Review or IESG Approval.

256-2047: Specification Required.

2048-64999: Expert Review.

65000-65535: Experimental use (no operational use).

(Expert: Bilhanan Silverajan (primary), Klaus Hartke

(secondary), Carsten Bormann (secondary), Jaime Jim

(secondary), Alexander Pelov (secondary))

[CoAP Signaling Codes](#)[RFC 8323](#)

IETF Review or IESG Approval

[CoAP Signaling Option Numbers](#)[RFC 8323](#)

0-255: IETF Review or IESG Approval.

256-2047: Specification Required.

2048-64999: Expert Review.

65000-65535: Experimental use (no operational use).

(Expert: Bilhanan Silverajan (primary), Klaus Hartke

(secondary), Alexander Pelov (secondary))

[Custom Problem Detail Keys](#)[RFC 9290](#)

Expert Review (Expert: Thomas Fossati, Carsten Borr

[Endpoint Type \(et=\) RD Parameter Values](#)[RFC 9176](#)

value starts with "core": IETF Review.

all other values: Specification Required.

(Expert: Carsten Bormann, Jaime Jiménez, Christian A

[Interface Description \(if=\) Link Target Attribute Values](#)[RFC 6690](#)

value starts with "core": IETF Review.

all other values: Specification Required.

(Expert: Carsten Bormann, Jaime Jimenez, Christian A

[OSCORE Flag Bits](#)[RFC 8613](#)

Expert Review (Expert: Francesca Palombini, Göran S

Christian Amsüss)

[RD Parameters](#)[RFC 9176](#)

Expert Review (Expert: Carsten Bormann, Jaime Jimér

Christian Amsüss)

[Resource Type \(rt=\) Link Target Attribute Values](#)[RFC 6690](#)

value starts with "core": IETF Review.

all other values: Specification Required.

(Expert: Carsten Bormann, Jaime Jimenez, Christian A

[Standard Problem Detail Keys](#)[RFC 9290](#)

Specification Required (Expert: Thomas Fossati, Carst

Bormann)

[Target Attributes](#)[RFC 9423](#)

Expert Review (Expert: Carsten Bormann, Marco Tiloc

Content Delivery Network Interconnection (CDNI) Parameters

CDNI Capabilities Redirection Modes	RFC 8008 IETF Review
CDNI Capacity Limit Types	RFC 9808 Specification Required (Expert: Ben Rosenblum, Sanj; Mishra)
CDNI CI/T Error Codes	RFC 8007 Specification Required (Expert: Kevin Ma, Ben Niven-J)
CDNI CI/T Trigger Types	RFC 8007 RFC Required
CDNI Logging Directive Names	RFC 7937 Specification Required (Expert: Kevin Ma)
CDNI Logging Field Names	RFC 7937 Specification Required (Expert: Kevin Ma)
CDNI Logging File version	RFC 7937 Specification Required (Expert: Kevin Ma)
CDNI Logging record-types	RFC 7937 Specification Required (Expert: Kevin Ma)
CDNI Metadata Footprint Types	RFC 8006 Specification Required (Expert: Kevin Ma)
CDNI Metadata Protocol Types	RFC 8006 Specification Required (Expert: Kevin Ma)
CDNI Payload Types	RFC 7736 Specification Required (Expert: Kevin Ma, Ben Niven-J)
CDNI RI Error response code	RFC 7975 Specification Required (Expert: Kevin Ma, Ben Niven-J)
CDNI Telemetry Source Types	RFC 9808 Specification Required (Expert: Ben Rosenblum, Sanj; Mishra)
CDNI URI Signing Signed Token Transport	RFC 9246 Specification Required (Expert: Phil Sorber)
CDNI URI Signing Verification Codes	RFC 9246 Specification Required (Expert: Phil Sorber)
Content Disposition Values and Parameters	
Content Disposition Parameters	RFC 2183 First Come First Served
Content Disposition Values	RFC 2183 Standards Track or IESG-Approved Experimental RFC
Handling Parameter Values	RFC 3204 Not Defined
Voice Parameter Values	RFC 2421 Not Defined
Content Security Policy Directives	
Content Security Policy Directives	RFC 7762 Specification Required (Expert: Mike West)
Content-Centric Networking (CCNx)	
CCNx Echo Reply Codes	RFC 9508 Specification Required (Expert: Dave Oran, Hitoshi As)
CCNx Hash Function Types	RFC 8609 Specification Required (Expert: Dave Oran, Hitoshi As)
CCNx Hop-by-Hop Types	RFC 8609 RFC Required
CCNx Interest Return Code Types	RFC 8609 Specification Required (Expert: Dave Oran, Hitoshi As)
CCNx Message Types	RFC 8609 RFC Required

CCNx Name Segment Types	RFC 8609 Specification Required (Expert: Dave Oran, Hitoshi As)
CCNx Packet Types	RFC 8609 RFC Required
CCNx Payload Types	RFC 8609 Specification Required (Expert: Dave Oran, Hitoshi As)
CCNx Reply Types	RFC 9344 RFC Required
CCNx Top-Level Types	RFC 8609 RFC Required
CCNx Validation Algorithm Types	RFC 8609 Specification Required (Expert: Dave Oran, Hitoshi As)
CCNx Validation-Dependent Data Types	RFC 8609 RFC Required
Context labels for Internet Messages	
Internet Message Content Types	RFC 3458 RFC Required
Context Transfer Protocol (CXTTP) Parameters	
Context Transfer Profile Type Registry	RFC 4065 Expert Review (Expert: Unassigned)
Context Transfer Protocol Authorization Token Calculation Algorithms	RFC 4065 Expert Review (Expert: Unassigned)
Control And Provisioning of Wireless Access Points (CAPWAP) Parameters	
AC DTLS Policy	RFC 5415 Standards Action
AC Information Type	RFC 5415 Expert Review (Expert: Margaret Cullen)
AC Security Types	RFC 5415 Standards Action
Alternate Tunnel Sub-elements	RFC 8350 Expert Review (Expert: Sri Gundavelli, Li Xue)
Alternate Tunnel-Types	RFC 8350 Specification Required (Expert: Sri Gundavelli, Li Xue)
CAPWAP Control Message Flags	RFC 5415 Expert Review (Expert: Margaret Cullen)
CAPWAP Header Flags	RFC 5415 Expert Review (Expert: Margaret Cullen)
CAPWAP IEEE 802.11 Message Types	RFC 5416 Expert Review (Expert: Margaret Cullen)
CAPWAP Message Element Type	RFC 5415 Expert Review (Expert: Margaret Cullen)
CAPWAP Message Types	RFC 5415 Expert Review (Expert: Margaret Cullen)
CAPWAP Transport Protocol Types	RFC 5415 Expert Review (Expert: Margaret Cullen)
CAPWAP Wireless Binding Identifier	RFC 5415 Expert Review (Expert: Margaret Cullen)
Data Transfer Mode	RFC 5415 Expert Review (Expert: Margaret Cullen)
Data Transfer Type	RFC 5415 Expert Review (Expert: Margaret Cullen)
Discovery Types	RFC 5415 Expert Review (Expert: Margaret Cullen)

ECN Support	RFC 5415 Expert Review (Expert: Margaret Cullen)
IEEE 802.11 Antenna Combiner	RFC 5416 Expert Review (Expert: Margaret Cullen)
IEEE 802.11 Antenna Selection	RFC 5416 Expert Review (Expert: Margaret Cullen)
IEEE 802.11 Auth Type	RFC 5416 Expert Review (Expert: Margaret Cullen)
IEEE 802.11 Encryption Capabilities	RFC 5416 Expert Review (Expert: Margaret Cullen)
IEEE 802.11 Key Status	RFC 5416 Expert Review (Expert: Margaret Cullen)
IEEE 802.11 QoS	RFC 5416 Expert Review (Expert: Margaret Cullen)
IEEE 802.11 Session Key Flags	RFC 5416 Expert Review (Expert: Margaret Cullen)
IEEE 802.11 Split MAC Profile	RFC 7494 Expert Review (Expert: Unassigned)
IEEE 802.11 Tagging Policy	RFC 5416 Expert Review (Expert: Margaret Cullen)
IEEE 802.11 WTP Radio Fail	RFC 5416 Expert Review (Expert: Margaret Cullen)
IEEE 802.11 WTP Radio Type	RFC 5416 Expert Review (Expert: Margaret Cullen)
Radio Admin State	RFC 5415 Expert Review (Expert: Margaret Cullen)
Radio Failure Causes	RFC 5415 Expert Review (Expert: Margaret Cullen)
Radio Operational State	RFC 5415 Expert Review (Expert: Margaret Cullen)
Result Code	RFC 5415 Expert Review (Expert: Margaret Cullen)
Returned Message Element Reason	RFC 5415 Expert Review (Expert: Margaret Cullen)
WTP Board Data Type	RFC 5415 Expert Review (Expert: Margaret Cullen)
WTP Descriptor Type	RFC 5415 Expert Review (Expert: Margaret Cullen)
WTP Fallback Mode	RFC 5415 Expert Review (Expert: Margaret Cullen)
WTP Frame Tunnel Mode	RFC 5415 Expert Review (Expert: Margaret Cullen)
WTP MAC Type	RFC 5415 Expert Review (Expert: Margaret Cullen)
WTP Radio Stats Failure Type	RFC 5415 Expert Review (Expert: Margaret Cullen)
WTP Reboot Stats Failure Type	RFC 5415 Expert Review (Expert: Margaret Cullen)

Controlling multiple streams for telepresence (CLUE)

CLUE Message Types	RFC 8847 Specification Required (Expert: Roni Even, Simon Piet Romano)
CLUE Response Codes	RFC 8847 Specification Required (Expert: Roni Even, Simon Piet Romano)

CLUE Schema <personType>	RFC 8846 Expert Review (Expert: Roni Even, Simon Pietro Roma)
CLUE Schema <presentation>	RFC 8846 Expert Review (Expert: Roni Even, Simon Pietro Roma)
CLUE Schema <sensitivityPattern>	RFC 8846 Expert Review (Expert: Roni Even, Simon Pietro Roma)
CLUE Schema <view>	RFC 8846 Expert Review (Expert: Roni Even, Simon Pietro Roma)

Cryptographic Suites for IKEv1, IKEv2, and IPsec

Cryptographic Suites for IKEv1, IKEv2, and IPsec	RFC 4308 Expert Review and RFC Required (Expert: Tero Kiviner)
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Cryptographically Generated Addresses (CGA) Message Type Name Space

CGA Extension Type Tags	RFC 3972, RFC 9374 First Come First Served
CGA Extension Type Values	RFC 4581 Standards Action
CGA SEC	RFC 4982 Standards Action

D

Data Channel Establishment Protocol (DCEP) Parameters

Channel Types	RFC 8832 RFC Required
Message Types	RFC 8832 RFC Required

Data Link Switching Client Access Protocol (DCAP) Parameters

Data Link Switching Protocol Frame Codes	RFC 2114 RFC Required
Data Link Switching Protocol Sender Capability Codes	RFC 2114 RFC Required

Data Structure for the Security Suitability of Cryptographic Algorithms (DSSC)

Cryptographic Algorithms	RFC 5698 First Come First Served
Parameter Definitions	RFC 5698 RFC Required

Datagram Congestion Control Protocol (DCCP) Parameters

Ack Vector States	RFC 4340 Standards Action
CCID2-specific Feature Numbers (128-255)	RFC 4341 Standards Action
CCID2-specific Option Types (128-255)	RFC 4341 Standards Action
CCID2-specific Reset codes (128-255)	RFC 4341 Standards Action
CCID3-specific Feature Numbers (128-255)	RFC 4342 Standards Action
CCID3-specific Option Types (128-255)	RFC 4342 Standards Action
CCID3-specific Reset codes (128-255)	RFC 4342 Standards Action
CCID4-specific Feature Numbers (128-255)	RFC 5622 Standards Action
CCID4-specific Option Types (128-255)	RFC 5622 Standards Action

CCID4-specific Reset codes (128-255)	RFC 5622 Standards Action
Congestion Control Identifiers	RFC 4340 0-1: IETF Review (IETF RFC publication). 4-247: IETF Review (IETF RFC publication). 248-254: Reserved. 255: IETF Review (IETF RFC publication).
Drop Codes	RFC 4340 Standards Action
Feature Numbers	RFC 4340 10-119: IETF Review (IETF RFC publication). 120-126: Reserved. 127: IETF Review (IETF RFC publication). 128-255: CCID-specific codes.
MP-DCCP Versions	RFC 9897 RFC Required
Multipath Key Type	RFC 9897 RFC Required
Multipath Options	RFC 9897 RFC Required
Option Types	RFC 4340 3-30: IETF Review (IETF RFC publication). 45-119: IETF Review (IETF RFC publication). 120-126: Reserved. 127: IETF Review (IETF RFC publication). 128-255: CCID-specific codes.
Packet Types	RFC 4340 Standards Action
Reset Codes	RFC 4340 12-119: IETF Review (IETF RFC publication). 120-126: Reserved. 127: IETF Review (IETF RFC publication). 128-255: CCID-specific codes.
Service Codes	RFC 4340 Specification Required or First Come First Served (Exp Eddie Kohler)

Datagram Transport Layer Security (DTLS) Extension to Establish Keys for Secure Real-time Transport Protocol (SRTP)

DTLS-SRTP Protection Profiles	RFC 5764 Specification Required (Expert: Unassigned)
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Delivery Status Notification (DSN) Types

Address Types	RFC 3461 , RFC 3464 RFC Required
Diagnostic Types	RFC 3461 , RFC 3464 RFC Required
MTA Name Types	RFC 3461 , RFC 3464 RFC Required

DetNet Associated Channel Header (d-ACH) Flags

DetNet Associated Channel Header (d-ACH) Flags	RFC 9546 IETF Review
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Device Identification

DEV URN Subtypes	RFC 9039 Specification Required or IESG Approval (Expert: Jari / Jaime Jimenez)
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Differentiated Services Field Codepoints (DSCP)

Differentiated Services Field Codepoints (DSCP)	RFC 2474 , RFC 3260
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ECN Field (Bits 6-7)

RFC 3168
RFC Required**Directory System Names**

Distinguished Names

RFC 1779
Closed see RFC 4520**Distributed Denial-of-Service Open Threat Signaling (DOTS) Signal Channel**

DOTS Signal Channel Attack Status Codes

RFC 9132
Standards Action

DOTS Signal Channel CBOR Key Values

RFC 9132
1-127: IETF Review.
128-255: IETF Review.
256-16383: IETF Review.
16384-32767: Specification Required.
32768-49151: IETF Review.
49152-65535: Private Use.
(Expert: Nik Teague, Mohamed Boucadair, Andrew Mortensen, Tirumaleswar Reddy)

DOTS Signal Channel Conflict Cause Codes

RFC 9132
Standards Action

DOTS Signal Channel Conflict Status Codes

RFC 9132
Standards Action

DOTS Signal Channel Status Codes

RFC 9132
Standards Action**Distributed Node Consensus Protocol (DNCP)**

DNCP TLV Types

RFC 7787
Standards Action

HNCP TLV Types

RFC 7788
RFC Required**DNS-Based Authentication of Named Entities (DANE) Parameters**

TLSA Certificate Usages

RFC 6698, RFC 7218
RFC Required

TLSA Matching Types

RFC 6698, RFC 7218
Specification Required (Expert: Unassigned)

TLSA Selectors

RFC 6698, RFC 7218
Specification Required (Expert: Viktor Dukhovni, Shur Huque, Paul Wouters)**Domain Name System (DNS) Parameters**

AFSDB RR Subtype

RFC 6895, RFC 1035
Registry closed per RFC 6895

AMTRELAY Relay Type Field

RFC 8777
Specification Required (Expert: Unassigned)

Child Synchronization (CSYNC) Flags

RFC 7477
Standards Action

DHCID RR Digest Type Codes

RFC 4701
Standards Action

DHCID RR Identifier Type Codes

RFC 4701
Standards Action (Expert: Ólafur Guðmundsson)

DNS Catalog Zones Properties

RFC 9432
property prefix ends in the label "ext": Private Use.
all other property prefixes: Expert Review.
(Expert: Peter Thomassen, Ondřej Surý, Willem Tooro)

DNS CLASSes

RFC 6895, RFC 9108
0: Standards Action.
1-127: IETF Review.
128-253: IETF Review.
256-32767: IETF Review.
32768-57343: Specification Required.

	57344-65279: Specification Required. 65280-65534: Private Use. 65535: Standards Action. (Expert: Petr Špaček, Ladislav Lhotka)
DNS EDNS0 Option Codes (OPT)	RFC 6891 1-65000: Expert Review. 65001-65534: Local/Experimental Use. (Expert: Ólafur Guðmundsson (primary), Frederico AC (secondary), Ray Bellis (secondary), Roy Arends (secondary))
DNS Header Flags	RFC 6895 , RFC 1035 Standards Action
DNS KEY RR Protocol Octet Values	RFC 4034 , RFC 2535 CLOSED per RFC 3445
DNS Label Types	RFC 6891 Standards Action
DNS OpCodes	RFC 6895 , RFC 1035 Standards Action
DNS RCODEs	RFC 6895 , RFC 1035 0-3840: IETF Review. 3841-4095: Private Use. 4096-65534: IETF Review. 65535: Reserved (Standards Action).
DNS Resolver Information Keys	RFC 9606 Specification Required (Expert: Tirumal Reddy, Mohai Boucadair, Ben Schwartz)
DNS Server Cookie Methods	RFC 9018 , RFC 7873 Version 1-239, Size 8-32: Expert Review. Version 240-254, Size 8-32: Private Use. (Expert: Ondřej Surý, Donald Eastlake)
DNS SVCB Service Parameter Keys (SvcParamKeys)	RFC 9460 0-65279: Expert Review. 65280-65534: Private Use. (Expert: Benjamin Schwartz, David Lawrence)
DNS-over-QUIC Error Codes	RFC 9250 provisional (greater than 0x3f): Expert Review. provisional registration Date field update: First Come Served. permanent, 0x00-0x3f: Standards Action or IESG App permanent, greater than 0x3f: Specification Required (Expert: Sara Dickinson, Christian Huitema)
DNSKEY RR Flags	RFC 3755 , RFC 4034 Standards Action
DSO Type Codes	RFC 8490 0x0004-0x003F: Standards Action. 0x0040-0xF7FF: Expert Review. 0xF800-0xFBFF: Experimental/Local Use. 0xFC00-0xFFFF: Standards Action. (Expert: Ted Lemon, Sara Dickinson, John Dickinson)
DSYNC: Location of Synchronization Endpoints	RFC 9859 Expert Review (Expert: Johan Stenstam, Peter Thoma: John Levine)
EDNS Header Flags (16 bits)	RFC 6891 Standards Action
EDNS version Number (8 bits)	RFC 6891 Standards Action
Extended DNS Error Codes	RFC 8914 0-49151: First Come First Served. 49152-65535: Private Use.
Resource Record (RR) TYPES	RFC 6895 , RFC 1035 , RFC 9108 0: RRTYPE zero is used as a special indicator for the RFC 2931 , RFC 4034 and in other circumstances and r

	never be allocated for ordinary use.. 1-127: Expert Review (see mailing list information in RFC 6895) or Standards Action. 128-255: Expert Review (see mailing list information in RFC 6895) or Standards Action. 256-61439: Expert Review (see mailing list information in RFC 6895) or Standards Action. 61440-65279: Reserved for future use (IETF Review request to define use). 65280-65534: Private Use. 65535: Reserved (Standards Action). (Expert: Roy Arends, Frederico AC Neves, Ólafur Guðmundsson, Ray Bellis)
SSHFP RR types for fingerprint types	RFC 4255 IETF Review
SSHFP RR Types for public key algorithms	RFC 4255 IETF Review
Underscored and Globally Scoped DNS Node Names	RFC 8552 Expert Review (Expert: Frederico A C Neves, Paul Wol
ZONEMD Hash Algorithms	RFC 8976 1-239: Specification Required. 240-254: Private Use. (Expert: Warren Kumari, Duane Wessels, Wes Hardak
ZONEMD Schemes	RFC 8976 1-239: Specification Required. 240-254: Private Use. (Expert: Warren Kumari, Duane Wessels, Wes Hardak
ZONEVERSION TYPE Values	RFC 9660 0-245: Specification Required. 246-254: Private Use. 255: Reserved. (Expert: Hugo Salgado, Mauricio Vergara Ereche, Duane Wessels)
Domain Name System Security (DNSSEC) Algorithm Numbers	
Digest Algorithms	RFC 3658 , RFC 4034 , RFC 4035 , RFC 9157 , RFC 9904 Standards Action or Specification Required (Expert: Roy Andrews, Roy Arends, Warren Kumari, Wes Hardaker)
DNS KEY Record Diffie-Hellman Prime Lengths	RFC 2539 IETF Review
DNS KEY Record Diffie-Hellman Well-Known Prime/Generator Pairs	RFC 2539 0x0000-0x07ff: Standards Action. 0x0800-0xbfff: RFC Required.
DNS Security Algorithm Numbers	RFC 4034 , RFC 3755 , RFC 6014 , RFC 6944 , RFC 9904 Standards Action or Specification Required (Expert: Roy Andrews, Roy Arends, Warren Kumari, Wes Hardaker)
Domain Name System Security (DNSSEC) NextSECure3 (NSEC3) Parameters	
DNSSEC NSEC3 Flags	RFC 5155 , RFC 9157 RFC Required
DNSSEC NSEC3 Hash Algorithms	RFC 5155 , RFC 9157 RFC Required
DNSSEC NSEC3PARAM Flags	RFC 5155 , RFC 9157 RFC Required
Domain-based Message Authentication, Reporting, and Conformance (DMARC)	
DMARC Report Formats	draft-ietf-dmarc-dmarcbis-41 Specification Required (Expert: Scott Kitterman)
DMARC Tags	draft-ietf-dmarc-dmarcbis-41 Specification Required (Expert: Scott Kitterman)
DomainKeys Identified Mail (DKIM) Parameters	

_domainkey DNS TXT Record Tag Specifications	RFC 6376 IETF Review
Authorized Third-Party Signature (ATPS) Tag Registry	RFC 6541 Specification Required (Expert: Unassigned)
DKIM Hash Algorithms	RFC 6376 IETF Review
DKIM Key Type	RFC 6376 IETF Review
DKIM Reporting Tag Registry	RFC 6651 Specification Required (Expert: Unassigned)
DKIM Selector Flags	RFC 6376 IETF Review
DKIM Service Types	RFC 6376 IETF Review
DKIM Signature Tag Specifications	RFC 6376 IETF Review
DKIM-Signature Canonicalization Body	RFC 6376 IETF Review
DKIM-Signature Canonicalization Header	RFC 6376 IETF Review
DKIM-Signature Query Method	RFC 6376 IETF Review
Drone Remote ID Protocol	
DRIP Frame Types	RFC 9575 0x01-0x9F: Expert Review. 0xA0-0xEF: First Come First Served. 0xF0-0xFF: Experimental Use. (Expert: Adam Wiethuechter, Mohamed Boucadair)
DRIP RAA Allocations	RFC 9886 0-3: Reserved. 4-3999: IESG Approval. 4000-8191: Reserved. 8192-15359: First Come First Served. 15360-16383: Private Use.
DRIP SAM Types	RFC 9575 Standards Action
HHIT Entity Types	RFC 9886 First Come First Served
Hierarchical a HIT (HHIT) Suite IDs	RFC 9374 IETF Review
Hierarchical HIT (HHIT) Prefixes	RFC 9374 Expert Review (Expert: Adam Wiethuechter, Mohamed Boucadair)
Dynamic Host Configuration Protocol (DHCP) and Bootstrap Protocol (BOOTP) Parameters	
Altitude Type Registry	RFC 6225 Standards Action
Authentication Suboption (value 8) - Algorithm identifier values	RFC 4030 IETF Review
Authentication Suboption (value 8) - Protocol identifier values	RFC 3118 IETF Review
Authentication Suboption (value 8) - Replay Detection Method (RDM) identifier values	RFC 4030 IETF Review
BOOTP Vendor Extensions and DHCP Options	RFC 2939 IETF Review
CableLabs Client Configuration Option Ticket Control Mask Bit Definitions	RFC 3594 IETF Review

Datum Registry	RFC 6225 Standards Action
DHCP Cablelabs Client Configuration Option Type 122 Sub-Option Codes	RFC 3495 IETF Review
DHCP Message Type 53 Values	RFC 2939 IETF Review
DHCP Options Permitted in the RADIUS DHCPv4-Options Attribute	RFC 9445 Expert Review (Expert: Alan DeKok, Mohamed Boucar)
DHCP Relay Agent Sub-Option Codes	RFC 3046 IETF Review
DHCP State Type 156 Values	RFC 6926 IETF Review
DHCP Status Code Type 151 Values	RFC 6926 IETF Review
GeoLoc Option Version Registry	RFC 6225 Standards Action
IEEE 802.21 Service Type (MoS DHCPv4 Address and FQDN Sub-Options)	RFC 5678 Standards Action
NetWare/IP Option Type 63 Sub-Option Codes	RFC 2242 Not defined
NTP Time Source Suboptions	RFC 5908 IETF Review
RADIUS Attributes Permitted in RADIUS Attributes DHCP Suboption	RFC 9445 Expert Review (Expert: Alan DeKok, Mohamed Boucar)
VSS Type Options	RFC 6607 IETF Review

Dynamic Host Configuration Protocol for IPv6 (DHCPv6)

DHCPv6 Options Permitted in the RADIUS DHCPv6-Options Attribute	RFC 9445, RFC 9915 Expert Review (Expert: Alan DeKok, Mohamed Boucar)
DUIDs	RFC 9915 Standards Action
IEEE 802.21 Service Type (MoS DHCPv6 Address and FQDN Sub-Options)	RFC 5678, RFC 9915 Standards Action
Message Types	RFC 9915 Standards Action
NTP Time Source Suboptions	RFC 5908, RFC 9915 IETF Review
Option Codes	RFC 9915 Expert Review and Standards Action (Expert: Ted Lenn Bernie Volz, Tomek Mrugalski)
Option Codes Permitted in the S46 Priority Option	RFC 8026, RFC 9915 IETF Review
OPTION_LQ_QUERY option	RFC 5007, RFC 9915 Standards Action
Options Permitted in the Relay-Supplied Options Option	RFC 6422, RFC 9915 IETF Review
Processor Architecture Types	RFC 5970, RFC 9915 Expert Review (Expert: Vincent Zimmer, Bernie Volz, T Mrugalski)
RADIUS Attributes Permitted in DHCPv6 RADIUS Option	RFC 7037, RFC 9915 Expert Review (Expert: Bernie Volz, Tomek Mrugalski)
Status Codes	RFC 9915 Standards Action
Supported Transport	RFC 9527, RFC 9915 RFC Required

VSS Type Options

RFC 6607
IETF Review**Dynamic Link Exchange Protocol (DLEP) Parameters**

Data Item Type Values

RFC 8175
26-65407: Specification Required.
65408-65534: Private Use.
(Expert: Rick Taylor)

Extension Type Values

RFC 8175
2-65519: Specification Required.
65520-65534: Private Use.
(Expert: Rick Taylor)

Hop Control Actions Values

RFC 8629
4-65519: Specification Required.
65520-65534: Private Use.
(Expert: Rick Taylor)

IPv4 Address Flags

RFC 8175
Specification Required (Expert: Rick Taylor)

IPv4 Attached Subnet Flags

RFC 8175
Specification Required (Expert: Rick Taylor)

IPv4 Connection Point Flags

RFC 8175
Specification Required (Expert: Rick Taylor)

IPv6 Address Flags

RFC 8175
Specification Required (Expert: Rick Taylor)

IPv6 Attached Subnet Flags

RFC 8175
Specification Required (Expert: Rick Taylor)

IPv6 Connection Point Flags

RFC 8175
Specification Required (Expert: Rick Taylor)

Message Type Values

RFC 8175
17-65519: Specification Required.
65520-65534: Private Use.
(Expert: Rick Taylor)

Peer Type Flags

RFC 8175
Specification Required (Expert: Rick Taylor)

Queue Parameter Sub-Data Item Type Values

RFC 8651
2-65407: Specification Required.
65408-65534: Private Use.
(Expert: Unassigned)

Signal Type Values

RFC 8175
3-65519: Specification Required.
65520-65534: Private Use.
(Expert: Rick Taylor)

Status Code Values

RFC 8175
4-111: Specification Required.
112-127: Private Use.
133-239: Specification Required.
240-254: Private Use.
(Expert: Rick Taylor)

Traffic Classification Sub-Data Item Type Values

RFC 9892
1-65407: Specification Required.
65408-65534: Private Use.
(Expert: Unassigned)**Dynamic Source Routing (DSR) Protocol Parameters**

Dynamic Source Routing (DSR) Protocol Options

RFC 4728
Expert Review (Expert: David B. Johnson, David A. Ma Chun Hu)

Dynamic Source Routing (DSR) Protocol Route Error Types

RFC 4728
Expert Review (Expert: David B. Johnson, David A. Ma Chun Hu)

Dynamic Symmetric Key Provisioning Protocol (DSKPP)

DSKPP Version Registry	RFC 6063 Standards Action
Key Container Registry	RFC 6063 Specification Required (Expert: Unassigned)
PRF Algorithm ID Registry	RFC 6063 Specification Required (Expert: Unassigned)
Status Codes	RFC 6063 Specification Required (Expert: Unassigned)

E

EAP-pwd Parameters

Password Preprocessing Methods	RFC 5931 Specification Required (Expert: Joseph Salowey)
PRF Registry	RFC 5931 IETF Review
PWD-Exch Messages	RFC 5931 IETF Review
Random Function Registry	RFC 5931 Specification Required (Expert: Joseph Salowey)

Electronic Commerce Modeling Language (ECML) Parameters

URN Prefix: urn:ietf:params:ecml	RFC 4112 IESG Approval
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Electronic Commerce Modeling Language Version 2 (ECMLv2) Parameters

Ecom_Payment_Card_Protocol Registry	RFC 4112 Expert Approval (Expert: Donald Eastlake)
Ecom_Payment_Card_Type Registry	RFC 4112 Expert Approval (Expert: Donald Eastlake)
Ecom_Transaction_Type Registry	RFC 4112 Expert Approval (Expert: Donald Eastlake)

Email Authentication Parameters

Email Authentication Methods	RFC 8601 , draft-ietf-dmarc-dmarcbis-41 Specification Required (Expert: Murray Kucherawy (p1 Scott Kitterman (secondary)))
Email Authentication Property Types	RFC 8601 Expert Review (Expert: Murray Kucherawy (primary), ! Kitterman (secondary))
Email Authentication Result Names	RFC 8601 , draft-ietf-dmarc-dmarcbis-41 Specification Required (Expert: Murray Kucherawy (p1 Scott Kitterman (secondary)))

Emergency Call Additional Data

Device Classification	RFC 7852 Expert Review (Expert: Brian Rosen)
Device ID Type	RFC 7852 Expert Review (Expert: Brian Rosen)
Device/Service Data Type	RFC 7852 Specification Required (Expert: Brian Rosen)
Emergency Call Data Types	RFC 7852 Specification Required (Expert: Brian Rosen (primary) Henning Schulzrinne (secondary))
Provider ID Series	RFC 7852 Expert Review (Expert: Brian Rosen)
Service Environment	RFC 7852 Expert Review (Expert: Brian Rosen)

Service Mobility	RFC 7852 Expert Review (Expert: Brian Rosen)
Service Type	RFC 7852 Expert Review (Expert: Brian Rosen)
Type of Provider	RFC 7852 Expert Review (Expert: Brian Rosen)
Emergency Call Metadata/Control Data	
Emergency Call Action Failure Reasons	RFC 8147 Expert Review (Expert: Randall Gellens)
Emergency Call Actions	RFC 8147 Expert Review (Expert: Randall Gellens)
Emergency Call Static Messages	RFC 8148 Specification Required (Expert: Randall Gellens)
Emergency Call Vehicle Camera IDs	RFC 8148 Expert Review (Expert: Randall Gellens)
Emergency Call Vehicle Lamp IDs	RFC 8148 Expert Review (Expert: Randall Gellens)
Enumservice Registrations	
Enumservice Registrations	RFC 6117 Specification Required (Expert: Bernie Hoeneisen)
Ephemeral Diffie-Hellman Over COSE (EDHOC)	
EDHOC Authentication Credential Types	RFC 9668 less than -65536: Private Use. -65536 to -25: Specification Required. -24 to 23: Standards Action with Expert Review. 24 to 65535: Specification Required. greater than 65535: Private Use. (Expert: Francesca Palombini, Marco Tiloca, Göran Se)
EDHOC Cipher Suites	RFC 9528 -65536 to -25: Specification Required. -24 to -21: Private Use. -20 to 23: Standards Action with Expert Review. 24 to 65535: Specification Required. (Expert: John Mattson, Göran Selander, Mališa Vučinić)
EDHOC Error Codes	RFC 9528 -65536 to -25: Expert Review. -24 to 23: Standards Action. 24 to 65535: Expert Review. (Expert: John Mattson, Göran Selander, Mališa Vučinić)
EDHOC Exporter Labels	RFC 9528 0-23: Standards Action. 24-32767: Expert Review. 32768-65535: Private Use. (Expert: John Mattson, Göran Selander, Mališa Vučinić)
EDHOC External Authorization Data	RFC 9528 0-23: Standards Action with Expert Review. 24-65535: Specification Required. (Expert: John Mattson, Göran Selander, Mališa Vučinić)
EDHOC Method Types	RFC 9528 -65536 to -25: Specification Required. -24 to 23: Standards Action with Expert Review. 24 to 65535: Specification Required. (Expert: John Mattson, Göran Selander, Mališa Vučinić)
ESP AGGFRAG_PAYLOAD	
AGGFRAG_PAYLOAD Sub-Types	RFC 9347 Expert Review (Expert: Christian Hopps)
Ethernet VPN (EVPN)	

EVPN Route Types

RFC 7432

RFC Required

Extended Master Session Key (EMSK) Parameters

EMSK PRF Numbers

RFC 5295

0-220: IETF Review.

221-255: Reserved for Private Use.

User Specific Root Keys (USRK) Key Labels

RFC 5295

Specification Required (Expert: Unassigned)

Extensible Authentication Protocol (EAP)

ADE Type Namespace

RFC 4746

Expert Review (Expert: Joseph Salowey)

Attribute Types (Non-Skippable Attributes 0-127)

RFC 4187

Specification Required (Expert: Vesa Lehtovirta)

Attribute Types (Skippable Attributes 128-255)

RFC 4187

Specification Required (Expert: Vesa Lehtovirta)

DH Group ID Namespace

RFC 4746

Expert Review (Expert: Unassigned)

EAP Finish/Re-auth Flags

RFC 6630

Standards Action or IESG Approval

EAP Initiate and Finish Attributes

RFC 6696

IETF Review

EAP Initiate/Re-auth Flags

RFC 6630

Standards Action or IESG Approval

EAP Initiate/Re-auth-Start Flags

RFC 6630

Standards Action or IESG Approval

EAP Lower Layers

RFC 6677

Expert Review (Expert: Joseph Salowey)

EAP Provisioning Identifiers

draft-ietf-emu-eap-arpa-10

Expert Review (Expert: Unassigned)

EAP-AKA' AT_KDF Key Derivation Function Values

RFC 9048

Specification Required (Expert: Vesa Lehtovirta)

EAP-AKA' AT_KDF_FS Key Derivation Function Values

RFC 9678

Specification Required (Expert: Jari Arkko, Peter Yee)

EAP-FAST (value 43) Error-TLV (value 5) Error-Codes

RFC 4851

Specification Required (Expert: Joseph Salowey)

EAP-FAST (value 43) Request-Action TLV (value 19) Action Codes

RFC 4851

Specification Required (Expert: Joseph Salowey)

EAP-FAST GTC Error Codes

RFC 5421

Specification Required (Expert: Joseph Salowey)

EAP-FAST PAC Attribute Types

RFC 5422

Specification Required (Expert: Joseph Salowey)

EAP-FAST PAC Types

RFC 5422

Specification Required (Expert: Joseph Salowey)

EAP-FAST Server-Trusted-Root Credential Format Types

RFC 5422

Specification Required (Expert: Joseph Salowey)

EAP-FAST TLV Types (Value 43)

RFC 4851

Specification Required (Expert: Joseph Salowey)

EAP-GPSK Ciphersuites

RFC 5433

IETF Review

EAP-GPSK Failure Codes

RFC 5433

IETF Review

EAP-GPSK OP Codes

RFC 5433

IETF Review

EAP-GPSK Protected Data Payloads

RFC 5433

IETF Review

EAP-IKEv2 Payloads	RFC 5106 Expert Review (Expert: Joseph Salowey)
EAP-NOOB Cryptosuites	RFC 9140 Specification Required (Expert: Tuomas Aura, Mohit S)
EAP-NOOB Error Codes	RFC 9140 6001-6999: Private and Experimental Use. All other values: Specification Required. (Expert: Tuomas Aura, Mohit Sethi)
EAP-NOOB Message Types	RFC 9140 Specification Required (Expert: Tuomas Aura, Mohit S)
EAP-NOOB PeerInfo Data Fields	RFC 9140 Specification Required (Expert: Tuomas Aura, Mohit S)
EAP-NOOB ServerInfo Data Fields	RFC 9140 Specification Required (Expert: Tuomas Aura, Mohit S)
EAP-SAKE messages	RFC 4763 IETF Review with Specification Required (Expert: Unas)
EAP-TTLS AVP Usage	RFC 5281 IETF Review
Encryption Algorithms	RFC 4793 0x0003-0x7fff: Specification Required and IESG Appro 0x8000-0xffff: Vendor-specific proprietary algorithms (Expert: Joseph Salowey)
EXT_Type Numbers	RFC 4764 Specification Required (Expert: Joseph Salowey)
Hash Algorithms	RFC 4793 0x0006-0x7fff: Specification Required and IESG Appro 0x8000-0xffff: Proprietary vendor-specific algorithms (Expert: Joseph Salowey)
MAC Algorithms	RFC 4793 0x0002-0x7fff: Specification Required and IESG Appro 0x8000-0xffff: Vendor-specific proprietary algorithms (Expert: Joseph Salowey)
MAC ID Namespace	RFC 4746 Expert Review (Expert: Joseph Salowey)
Message Types	RFC 6696 IETF Review
Method Types	RFC 3748 1-191: Specification Required. 192-253: Standards Action. 254: Expanded Type. 255: Experimental. 256-4294967295: Specification Required. (Expert: Joseph Salowey)
non-skipable attributes	RFC 4763 IETF Review with Specification Required (Expert: Unas)
Packet Codes	RFC 3748 Standards Action
Public Key ID Namespace	RFC 4746 Expert Review (Expert: Joseph Salowey)
Re-authentication Cryptosuites	RFC 6696 IETF Review
skipable attributes	RFC 4763 IETF Review
Subtypes	RFC 4187 Specification Required (Expert: Vesa Lehtovirta)
TEAP Error TLV (value 5) Error Codes	draft-ietf-emu-rfc7170bis-19 Specification Required (Expert: Margaret Cullen, Nan Winget)

TEAP Identity-Type TLV (value 2) Registry	draft-ietf-emu-rfc7170bis-19 Specification Required (Expert: Unassigned)
TEAP PAC TLV (value 11) PAC Attribute Type Codes	draft-ietf-emu-rfc7170bis-19 Registry closed
TEAP PAC TLV (value 11) PAC-Type Type Codes	draft-ietf-emu-rfc7170bis-19 Registry closed
TEAP Request-Action TLV (value 8) Registry	draft-ietf-emu-rfc7170bis-19 Specification Required (Expert: Unassigned)
TEAP Status Codes	draft-ietf-emu-rfc7170bis-19 Specification Required (Expert: Unassigned)
TEAP TLV Types	draft-ietf-emu-rfc7170bis-19 Specification Required (Expert: Margaret Cullen, Nan Winget)
TEAP Trusted-Server-Root TLV (value 17) Credential-Format Codes	draft-ietf-emu-rfc7170bis-19 Specification Required (Expert: Unassigned)
Trusted Non-3GPP Access EAP Parameters	RFC 7458 Specification Required (Expert: Jouni Korhonen)

Extensible Authentication Protocol (EAP) Channel-Binding Parameters

EAP Channel-Binding Codes	RFC 6677 Standards Action
EAP Channel-Binding Namespaces	RFC 6677 IETF Review

Extensible Authentication Protocol (EAP) Encrypted Key Exchange (EKE) Registry

EAP-EKE Channel-Binding Type Registry	RFC 6124 Specification Required (Expert: Joseph Salowey)
EAP-EKE Diffie-Hellman Group Registry	RFC 6124 Specification Required (Expert: Joseph Salowey)
EAP-EKE Encryption Algorithm Registry	RFC 6124 Specification Required (Expert: Joseph Salowey)
EAP-EKE Exchange Registry	RFC 6124 RFC Required
EAP-EKE Failure-Code Registry	RFC 6124 RFC Required
EAP-EKE Identity Type Registry	RFC 6124 Specification Required (Expert: Joseph Salowey)
EAP-EKE Keyed Message Digest (MAC) Registry	RFC 6124 Specification Required (Expert: Joseph Salowey)
EAP-EKE Pseudo Random Function Registry	RFC 6124 Specification Required (Expert: Joseph Salowey)

Extensible Binary Meta Language (EBML)

EBML DocTypes	RFC 8794 First Come First Served
EBML Element IDs	RFC 8794 0x80-0xFE: RFC Required. 0x407F-0x7FFE: Specification Required. 0x203FFF-0x3FFFFE: First Come First Served. 0x101FFFFF-0x1FFFFFFF: Specification Required or First Served. (Expert: Dave Rice (primary), Steve Lhomme (backup) Bunkus (backup))

Extensible Markup Language (XML) Configuration Access Protocol (XCAP) Parameters

XCAP Application Unique IDs	RFC 4825 Standards Action
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Extensible Provisioning Protocol (EPP) Extensions

[Extensions for the Extensible Provisioning Protocol \(EPP\)](#)

[RFC 7451](#)

Specification Required (Expert: Gavin Brown (primary), Alexander Mayrhofer (secondary), Ning Kong (secondary), Roger D Carney (secondary), Jim Galvin (secondary), J Gould (secondary), Scott Hollenbeck (secondary))

Extensible Provisioning Protocol (EPP) Organization Role Values

[EPP Organization Role Values](#)

[RFC 8543](#)

Expert Review (Expert: James Gould)

Extensible Provisioning Protocol (EPP) Repository Identifiers

[EPP Repository Identifiers](#)

[RFC 5730](#)

First Come First Served

F

FCAST Parameters

[FCAST Object Metadata Encoding](#)

[RFC 6968](#)

Expert Review (Expert: Unassigned)

[FCAST Object Metadata Format](#)

[RFC 6968](#)

Specification Required (Expert: Unassigned)

[FCAST Object Metadata Types](#)

[RFC 6968](#)

Expert Review (Expert: Unassigned)

Federated File System (FedFS) Parameters

[FedFS Annotation Keys](#)

[RFC 7532](#)

First Come First Served

[FedFS Object Identifiers](#)

[RFC 7532](#)

Registry Closed

Fibre Channel Port Types Registry

[Fibre Channel Port Types](#)

[RFC 4044](#)

1-9999: Specification Required.
10000-99999: Private Use.
100000 and higher: Reserved.
(Expert: Claudio DeSanti)

Flow Spec Component Types

[Flow Spec Component Types](#)

[RFC 8955](#), [RFC 8956](#)

0: Reserved.
1-127: Specification Required.
128-254: Expert Review.
255: Reserved.
(Expert: Susan Hares, Robert Raszuk)

FLUTE - File Delivery over Unidirectional Transport (FLUTE) Parameters

[FLUTE Content Encoding Algorithms](#)

[RFC 6726](#)

Specification Required (Expert: Unassigned)

FOOBAR Address Family Numbers

[Assigned FOOBAR Address Families](#)

[RFC 1639](#)

IANA assignment

Forwarding and Control Element Separation (ForCES)

[Association Setup Response](#)

[RFC 5810](#)

0x00000000-0x000000FF: IETF Review.
0x00000100-0x0000FFFF: Specification Required.
(Expert: Jamal Hadi Salim, Joel Halpern)

[Association Teardown Message](#)

[RFC 5810](#)

0x00000000-0x0000FFFF: IETF Review.
0x00010000-0x7FFFFFFF: Specification Required.
(Expert: Jamal Hadi Salim, Joel Halpern)

[Exception ID](#)

[RFC 6956](#)

Specification Required (Expert: Jamal Hadi Salim, Joel Halpern)

EXTENDEDRESULT-TLV Result Values	RFC 7391 Specification Required (Expert: Unassigned)
Header Flags	RFC 5810 IETF Review
Logical Functional Block (LFB) Class Names and Class Identifiers	RFC 5812, RFC 7121 0-65535: Standards Action. >65535: First Come First Served with any publicly available specification.
Message Types	RFC 5810 0x00-0x1F: IETF Review. 0x20-0x7F: Specification Required. (Expert: Jamal Hadi Salim, Joel Halpern)
Metadata ID	RFC 6956 Specification Required (Expert: Jamal Hadi Salim, Joel Halpern)
Operation Selection (OPER-TLV) Types	RFC 5810 0x0000-0x00FF: IETF Review. 0x0100-0x7FFF: Specification Required. (Expert: Jamal Hadi Salim, Joel Halpern)
RESULT-TLV Result Values	RFC 5810 Expert Review (Expert: Jamal Hadi Salim, Joel Halpern)
TLV Types	RFC 5810 0x0000-0x01FF: IETF Review. 0x0200-0x7FFF: Specification Required. (Expert: Jamal Hadi Salim, Joel Halpern)
Validate Error ID	RFC 6956 Specification Required (Expert: Jamal Hadi Salim, Joel Halpern)
Free Lossless Audio Codec (FLAC)	
FLAC Application Metadata Block IDs	RFC 9639 First Come First Served
FTP parameters	
FTP Commands and Extensions	RFC 5797 registration marked "mandatory" ('m' in the "conf" cc Standards Action. all other registrations: Specification Required. (Expert: John Klensin)
G	
General Internet Signalling Transport (GIST) Parameters	
Additional Information Types	RFC 5971 First Come First Served
Error Code 1 Subcodes	RFC 5971 First Come First Served
Error Code 10 Subcodes	RFC 5971 First Come First Served
Error Code 12 Subcodes	RFC 5971 First Come First Served
Error Code 9 Subcodes	RFC 5971 First Come First Served
GIST Error Codes	RFC 5971 First Come First Served
GIST MA-Protocol-IDs	RFC 5971 0-63: IETF Review. 64-119: Expert Review. (Expert: Martin Stiemerling)
GIST Message Routing Methods	RFC 5971 0-63: IETF Review.

	64-119: Specification Required. (Expert: Martin Stiemerling)
GIST Message Types	RFC 5971 0-31: IETF Review. 32-55: Expert Review. (Expert: Martin Stiemerling)
GIST Object Types	RFC 5971 0-1023: IETF Review. 1024-1999: Specification Required. (Expert: Martin Stiemerling)
NSIS Signaling Layer Protocol (NSLP) Identifiers	RFC 5971 IESG Approval
Generalized Multi-Protocol Label Switching (GMPLS) Signaling Parameters	
Actions	RFC 3471 IETF Review or Specification Required (Expert: Unassi)
Administrative Status Information Flags	RFC 4783 Standards Action
Association Type	RFC 4872 Standards Action
CWDM Channel Spacing Subregistry	RFC 6205 Standards Action
DWDM Channel Spacing Subregistry	RFC 6205 Standards Action
Ethernet Bandwidth Profiles	RFC 6003 Standards Action
Ethernet Sender TSpec TLVs/Ethernet Flowspec TLVs	RFC 6003 Standards Action
Ethernet Switching Granularities	RFC 6003 Standards Action
Generalized PIDs (G-PID)	RFC 3471 , RFC 4328 0-31743: Standards Action. 31744-32767: Assigned Temporarily for Experimental 32768-65535: Standards Action.
Generalized SCSI (Switching Capability Specific Information) TLV Types	RFC 8258 Specification Required (Expert: Lou Berger, Vishnu Be
Grid Subregistry	RFC 6205 Standards Action
Hierarchy Actions	RFC 6107 Standards Action
Interface_ID Types	RFC 3471 IETF Review or Specification Required (Expert: Unassi)
LSP Encoding Types	RFC 3471 , RFC 4328 0-239: Standards Action. 240-255: Assigned temporarily for Experimental Usag
OTN Signal Type	RFC 7139 , RFC 7892 0-255: Standards Action. 0-255: Specification Required. (Expert: Daniele Ceccarelli, Fatai Zhang)
Special Purpose Generalized Label Values	RFC 8359 Standards Action
Switching Types	RFC 3471 , RFC 4328 , RFC 7074 Standards Action
GeneRiC Autonomic Signaling Protocol (GRASP) Parameters	
GRASP Messages and Options	RFC 8990 Standards Action
GRASP Objective Names	RFC 8990 Specification Required (Expert: Michael Richardson)

Generic Routing Encapsulation (GRE) Parameters

GRE Protocol Types	RFC 2784 Need to go to IEEE
GRE Version Numbers	RFC 2784 IETF Review

Generic Security Service Application Program Interface (GSSAPI)/Kerberos/Simple Authentication Security Layer (SASL) Service Names

GSSAPI/Kerberos/SASL Service Names	RFC 2743 Specification Required (Expert: Unassigned)
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Generic Security Service Application Program Interface Parameters

GSS-API URN Parameters	RFC 7056 IETF Review or Expert Review (Expert: Unassigned)
--	---

Geolocation Policy

Geolocation Policy Location Profile Names	RFC 6772 Specification Required (Expert: Unassigned)
---	---

Geopriv HTTP Enabled Location Delivery (HELD) Parameters

HELD Error Codes	RFC 5985 Standards Action
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Geopriv Identifiers

Geopriv Identifiers	RFC 7035 IETF Review
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Geopriv Location Object Registries

Method Tokens	RFC 4119 First Come First Served
PIDF-LO Civic Address Considerations Registry	RFC 5774 Expert Review (Expert: Brian Rosen, Dan Banks)
XML Namespaces for 'provided-by' elements for use with PIDF-LO objects	RFC 4119 Expert Review (Expert: Primary: Allison Mankin, Secor Jon Peterson)

Geopriv Location Type Registries

Civic Address Types (CAtypes)	RFC 4776, RFC 6848 Type=A: IETF Review. Type=B: Expert Review. (Expert: Martin Thomson)
Location Types	RFC 4589 Expert Review (Expert: Martin Thomson)
Relative Location Parameters	RFC 7035 IETF Review

Global Navigation Satellite System (GNSS)

Global Navigation Satellite System (GNSS) Types	RFC 7105 Specification Required (Expert: Unassigned)
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Global Switch Management Protocol version 3 (GSMPv3) Adaptation Type Name Space

Adaptation Types	RFC 3292 0x000-0x2FF: IETF Review. 0x300-0xFFFF: First Come First Served.
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Global Switch Management Protocol version 3 (GSMPv3) Event Flag Name Space

Event Flags	RFC 3292 Expert Review (Expert: Stefaan De Cnodder, Avri Doria)
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Global Switch Management Protocol version 3 (GSMPv3) Failure Response Message Name Space

Failure Response Message Names	RFC 3292 0-59: IETF Review. 60-79: Reserved for Vendor Private Extensions. 80-127: IETF Review.
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128-159: Reserved for Vendor Private Extensions.
160-255: IETF Review.

Global Switch Management Protocol version 3 (GSMPv3) Label Type Name Space

Label Type Names

[RFC 3292](#)

0x000-0xAFF: IETF Review.

0xB00-0xEFF: RFC Required.

0xF00-0xFFF: Reserved for vendor private use.

Global Switch Management Protocol version 3 (GSMPv3) Message Type Name Space

Message Types

[RFC 3292](#)

0-99: IETF Review.

100-199: RFC Required.

200-249: Intended for Abstract and Resource Model Extension Messages.

250-255: Reserved for vendor private use.

Global Switch Management Protocol version 3 (GSMPv3) Model Type Name Space

Model Type Names

[RFC 3292](#)

0: IETF Review.

1-200: RFC Required.

201-255: Reserved for vendor private use.

Global Switch Management Protocol version 3 (GSMPv3) Port Type Name Space

Port Type Names

[RFC 3292](#)

0-127: IETF Review.

128-255: RFC Required or Specification Required.

(Expert: Unassigned)

Global Switch Management Protocol version 3 (GSMPv3) Result Type Name Space

Result Type Names

[RFC 3292](#)

Expert Review (Expert: Stefaan De Cnodder, Avri Dori)

Global Switch Management Protocol version 3 (GSMPv3) Service ID Name Space

Service ID Names

[RFC 3292](#)

0-1023: IETF Review.

1024-65535: RFC Required.

Global Switch Management Protocol version 3 (GSMPv3) Traffic Control Name Space

Traffic Control Flags

[RFC 3292](#)

Expert Review (Expert: Stefaan De Cnodder, Avri Dori)

Global Switched Telephone Network (GSTN) Address Element Extensions in Email Services

Qual2-Label

[RFC 2846](#)

Specification Required (Expert: Unassigned)

Qualif-Type 1

[RFC 2846](#), [RFC 3191](#)

Specification Required (Expert: Unassigned)

Service Selector

[RFC 2846](#), [RFC 3191](#)

Specification Required (Expert: Unassigned)

GMPLS Routing Parameters for WSON

Types for Subfields of WSON Resource Block Information Registry

[RFC 7581](#)

Standards Action

Grant Negotiation and Authorization Protocol (GNAP)

GNAP Access Token Flags

[RFC 9635](#)

Specification Required (Expert: Justin Richer, Joseph S Sudesha Shetty)

GNAP Assertion Formats

[RFC 9635](#)

Specification Required (Expert: Justin Richer, Joseph S Sudesha Shetty)

GNAP Authorization Server Discovery Fields

[RFC 9635](#)

Specification Required (Expert: Justin Richer, Joseph S Sudesha Shetty)

GNAP Client Instance Display Fields

[RFC 9635](#)

Specification Required (Expert: Justin Richer, Joseph S

	Sudasha Shetty)
GNAP Client Instance Fields	RFC 9635 Specification Required (Expert: Justin Richer, Joseph S Sudasha Shetty)
GNAP Error Codes	RFC 9635 Specification Required (Expert: Justin Richer, Joseph S Sudasha Shetty)
GNAP Grant Request Parameters	RFC 9635 Specification Required (Expert: Justin Richer, Joseph S Sudasha Shetty)
GNAP Grant Response Parameters	RFC 9635 Specification Required (Expert: Justin Richer, Joseph S Sudasha Shetty)
GNAP Interaction Finish Methods	RFC 9635 Specification Required (Expert: Justin Richer, Joseph S Sudasha Shetty)
GNAP Interaction Hints	RFC 9635 Specification Required (Expert: Justin Richer, Joseph S Sudasha Shetty)
GNAP Interaction Mode Responses	RFC 9635 Specification Required (Expert: Justin Richer, Joseph S Sudasha Shetty)
GNAP Interaction Start Modes	RFC 9635 Specification Required (Expert: Justin Richer, Joseph S Sudasha Shetty)
GNAP Key Formats	RFC 9635 Specification Required (Expert: Justin Richer, Joseph S Sudasha Shetty)
GNAP Key Proofing Methods	RFC 9635 Specification Required (Expert: Justin Richer, Joseph S Sudasha Shetty)
GNAP Resource Set Registration Request Parameters	RFC 9767 Expert Review (Expert: Justin Richer, Joseph Salowey, ! Shetty)
GNAP Resource Set Registration Response Parameters	RFC 9767 Expert Review (Expert: Justin Richer, Joseph Salowey, ! Shetty)
GNAP RS-Facing Discovery Document Fields	RFC 9767 Expert Review (Expert: Justin Richer, Joseph Salowey, ! Shetty)
GNAP RS-Facing Error Codes	RFC 9767 Specification Required (Expert: Justin Richer, Joseph S Sudasha Shetty)
GNAP Subject Information Request Fields	RFC 9635 Specification Required (Expert: Justin Richer, Joseph S Sudasha Shetty)
GNAP Subject Information Response Fields	RFC 9635 Specification Required (Expert: Justin Richer, Joseph S Sudasha Shetty)
GNAP Token Formats	RFC 9767 Specification Required (Expert: Justin Richer, Joseph S Sudasha Shetty)
GNAP Token Introspection Request	RFC 9767 Specification Required (Expert: Justin Richer, Joseph S Sudasha Shetty)
GNAP Token Introspection Response	RFC 9767 Specification Required (Expert: Justin Richer, Joseph S Sudasha Shetty)

Group Domain of Interpretation (GDOI) Payloads

GAP Payload Policy Attributes	RFC 6407 Standards Action
GDOI DOI Exchange Types	RFC 8263 Specification Required (Expert: Brian Weis)
GDOI ID Payload Type Values	RFC 3547 Standards Action
GDOI SA TEK Attributes	RFC 8052 Expert Review (Expert: Brian Weis, Tero Kivinen)
ID Types	RFC 8052 Expert Review (Expert: Brian Weis, Tero Kivinen)
IEC 62351-9 Authentication Values	RFC 8052 Expert Review (Expert: Brian Weis, Tero Kivinen)
IEC 62351-9 Confidentiality Values	RFC 8052 Expert Review (Expert: Brian Weis, Tero Kivinen)
Key Download Type Values	RFC 3547 Standards Action
SA KEK Payload Values	
SA TEK Payload Values	

Group Secure Association Group Management Protocol (GSAKMP) Parameters

GSAKMP Acknowledgment Types	RFC 4535 Standards Action
GSAKMP Certificate Types	RFC 4535 Expert Review (Expert: Unassigned)
GSAKMP Cryptographic Key Types	RFC 4535 Expert Review (Expert: Unassigned)
GSAKMP Exchange Types	RFC 4535 Standards Action
GSAKMP Group Identification Types	RFC 4535 Standards Action
GSAKMP Identification Classification	RFC 4535 Standards Action
GSAKMP Identification Types	RFC 4535 Expert Review (Expert: Unassigned)
GSAKMP Key Creation Types	RFC 4535 Expert Review (Expert: Unassigned)
GSAKMP Key Download Data Item Types	RFC 4535 Standards Action
GSAKMP Mechanism Types	RFC 4535 Standards Action
GSAKMP Nonce Hash Types	RFC 4535 Expert Review (Expert: Unassigned)
GSAKMP Nonce Types	RFC 4535 Standards Action
GSAKMP Notification Types	RFC 4535 Standards Action
GSAKMP Payload Types	RFC 4535 Standards Action
GSAKMP Policy Token Types	RFC 4535 Standards Action
GSAKMP Rekey Event Types	RFC 4535 Standards Action
GSAKMP Signature Types	RFC 4535 Expert Review (Expert: Unassigned)

Hash Algorithms for HTTP Digest Fields[Hash Algorithms for HTTP Digest Fields](#)[RFC 9530](#)

Specification Required (Expert: Roberto Polli (primary Pardue (secondary)))

Hash Function Textual Names[Hash Function Textual Names](#)[RFC 8122](#)

Standards Action

Hash-Based Signatures[Leighton-Micali Signatures \(LMS\)](#)[RFC 8554](#)0x00000005-0xDDDDDDDC: Specification Required.
0xDDDDDDDD-0xFFFFFFFF: Private Use.
(Expert: David McGrew, Scott Fluhrer)[LM-OTS Signatures](#)[RFC 8554](#)0x00000001-0xDDDDDDDC: Specification Required.
0xDDDDDDDD-0xFFFFFFFF: Private Use.
(Expert: David McGrew, Scott Fluhrer)[WOTS+ Signatures](#)[RFC 8391](#)

Specification Required (Expert: Andreas Huelsing, Ste Lukas Gazdag)

[XMSS Signatures](#)[RFC 8391](#)

Specification Required (Expert: Andreas Huelsing, Ste Lukas Gazdag)

[XMSS^{MT} Signatures](#)[RFC 8391](#)

Specification Required (Expert: Andreas Huelsing, Ste Lukas Gazdag)

Host Identity Protocol (HIP) Parameters[DI-Types](#)[RFC 7401](#)

IETF Review

[ESP Transform Suite IDs](#)[RFC 7402](#)

IETF Review

[Group IDs](#)[RFC 7401](#)

IETF Review

[HI Algorithm](#)[RFC 7401](#)

IETF Review

[HIP Certificate Types](#)[RFC 8002](#)

IETF Review

[HIP Cipher ID](#)[RFC 7401](#)

IETF Review

[HIP NAT Traversal Modes](#)[RFC 5770](#)

IETF Review

[HIP Transport Modes](#)[RFC 6261](#)

IETF Review or IESG Approval

[HIP Version](#)[RFC 7401](#)

IETF Review

[HIP Via Flags](#)[RFC 6028](#)

IETF Review or IESG Approval

[HIT Suite ID](#)[RFC 7401](#)

IETF Review

[Notify Message Types](#)[RFC 7401](#)1-50: IETF Review.
51-8191: Specification Required.
8192-16383: Reserved for Private Use.
16384-40959: Specification Required.
40960-65535: Reserved for Private Use.
(Expert: Robert Moskowitz, Jeff Ahrenholz)[Packet Types](#)[RFC 7401](#)

IETF Review

Parameter Types	RFC 7401 0-1023: IETF Review. 1024-32767: Specification Required. 32768-49151: Reserved for Private Use. 49152-61439: Specification Required. 61440-65535: IETF Review. (Expert: Robert Moskowitz, Jeff Ahrenholz)
Registration Failure Types	RFC 8003 0-200: IETF Review. 201-255: Reserved for Private Use.
Registration Types	RFC 8003 0-200: IETF Review. 201-255: Reserved for Private Use.
Suite IDs	RFC 5201 Registry closed per RFC 7401
HTTP Message Signature	
HTTP Signature Algorithms	RFC 9421 Specification Required (Expert: Justin Richer, Manu Sporny)
HTTP Signature Component Parameters	RFC 9421 Expert Review (Expert: Justin Richer, Manu Sporny)
HTTP Signature Derived Component Names	RFC 9421 Expert Review (Expert: Justin Richer, Manu Sporny)
HTTP Signature Metadata Parameters	RFC 9421 Expert Review (Expert: Justin Richer, Manu Sporny)
HTTP Origin-Bound Authentication (HOBA) Parameters	
HOBA Device Identifier Types	RFC 7486 Specification Required (Expert: Unassigned)
HOBA Key Identifier Types	RFC 7486 Specification Required (Expert: Unassigned)
HOBA Signature Algorithms	RFC 7486 Specification Required (Expert: Unassigned)
Hybrid Public Key Encryption (HPKE)	
HPKE AEAD Identifiers	RFC 9180 Specification Required (Expert: Christopher Wood, Rick Barnes)
HPKE KDF Identifiers	RFC 9180 Specification Required (Expert: Christopher Wood, Rick Barnes)
HPKE KEM Identifiers	RFC 9180 Specification Required (Expert: Christopher Wood, Rick Barnes)
Hypertext Transfer Protocol (HTTP) Alt-Svc Parameter Registry	
HTTP Alt-Svc Parameter Registry	RFC 7838 Expert Review (Expert: Unassigned)
Hypertext Transfer Protocol (HTTP) Authentication Control Parameters	
HTTP Authentication Control Parameters	RFC 8053 Specification Required (Expert: Rifaat Shekh-Yusef, Yutaka Oiwara)
HTTP Mutual Authentication Host Validation Methods	RFC 8120 Expert Review (Expert: Rifaat Shekh-Yusef, Yutaka Oiwara)
Hypertext Transfer Protocol (HTTP) Authentication Scheme Registry	
HTTP Authentication Schemes	RFC 9110 IETF Review
HTTP Mutual Authentication Algorithms	RFC 8120 Expert Review (Expert: Rifaat Shekh-Yusef, Yutaka Oiwara)
Hypertext Transfer Protocol (HTTP) Cache Directive Registry	

HTTP Cache Directive Registry	RFC 9111 IETF Review
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Hypertext Transfer Protocol (HTTP) Cache-Status

HTTP Cache-Status	RFC 9211 Expert Review (Expert: Mark Nottingham)
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Hypertext Transfer Protocol (HTTP) Cookie Attributes

Cookie Attributes	draft-ietf-httpbis-rfc6265bis-22 RFC Required
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Hypertext Transfer Protocol (HTTP) Digest Algorithm Values

Hash Algorithms for HTTP Digest Authentication	RFC 7616 Specification Required (Expert: Unassigned)
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HTTP Digest Algorithm Values	RFC 3230 RFC Required or Specification Required (Expert: Jame Manger)
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Hypertext Transfer Protocol (HTTP) Field Name Registry

Hypertext Transfer Protocol (HTTP) Field Name Registry	RFC 9110 , RFC 9651 Specification Required for Permanent registrations, E Review for Provisional registrations. (Expert: Mark Nottingham, Roy Fielding)
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Hypertext Transfer Protocol (HTTP) Method Registry

HTTP Method Registry	RFC 9110 IETF Review
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Hypertext Transfer Protocol (HTTP) Parameters

HTTP Content Coding Registry	RFC 9110 IETF Review
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HTTP Forwarded Parameters	RFC 7239 IETF Review
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HTTP Preferences	RFC 7240 Specification Required (Expert: Julian Reschke)
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HTTP Range Unit Registry	RFC 9110 IETF Review
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HTTP Transfer Coding Registry	RFC 9112 IETF Review
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Hypertext Transfer Protocol (HTTP) Priority

HTTP Priority	RFC 9218 Key length of one: Specification Required. Key length greater than one: Expert Review. (Expert: Lucas Pardue, Kazuho Oku)
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Hypertext Transfer Protocol (HTTP) Problem Types

HTTP Problem Types	RFC 9457 Specification Required (Expert: Mark Nottingham, Sai Dalal)
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Hypertext Transfer Protocol (HTTP) Proxy-Status

HTTP Proxy Error Types	RFC 9209 Expert Review (Expert: Mark Nottingham)
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HTTP Proxy-Status Parameters	RFC 9209 Expert Review (Expert: Mark Nottingham)
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Hypertext Transfer Protocol (HTTP) Status Code Registry

HTTP Status Codes	RFC 9110 IETF Review
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Hypertext Transfer Protocol (HTTP) Upgrade Token Registry

HTTP Upgrade Tokens	RFC 9110 First Come First Served
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Hypertext Transfer Protocol (HTTP) Warn Codes

HTTP Warn Codes	RFC 7234 IETF Review
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Hypertext Transfer Protocol version 2 (HTTP/2) Parameters

HTTP/2 Error Code	RFC 9113 Expert Review (Expert: Martin Thomson (primary), Jul Reschke (secondary))
HTTP/2 Frame Type	RFC 9113 IETF Review or IESG Approval
HTTP/2 Settings	RFC 9113 Expert Review (Expert: Martin Thomson (primary), Jul Reschke (secondary))

Hypertext Transfer Protocol version 3 (HTTP/3)

HTTP/3 Error Codes	RFC 9114 provisional: Expert Review. provisional registration date field update: First Come Served. permanent, 0x00-0x3f: Standards Action or IESG App permanent, greater than 0x3f: Specification Requirec values $0x1f * N + 0x21$ (for non-negative integer valu Reserved. first unassigned codepoint: Standards Action. (Expert: Mike Bishop, Alan Frindell)
HTTP/3 Frame Types	RFC 9114 provisional: Expert Review. provisional registration date field update: First Come Served. permanent, 0x00-0x3f: Standards Action or IESG App permanent, greater than 0x3f: Specification Requirec values $0x1f * N + 0x21$ (for non-negative integer valu Reserved. first unassigned codepoint: Standards Action. (Expert: Mike Bishop, Alan Frindell)
HTTP/3 Settings	RFC 9114 provisional: Expert Review. provisional registration date field update: First Come Served. permanent, 0x00-0x3f: Standards Action or IESG App permanent, greater than 0x3f: Specification Requirec values $0x1f * N + 0x21$ (for non-negative integer valu Reserved. first unassigned codepoint: Standards Action. (Expert: Mike Bishop, Alan Frindell)
HTTP/3 Stream Types	RFC 9114 provisional: Expert Review. provisional registration date field update: First Come Served. permanent, 0x00-0x3f: Standards Action or IESG App permanent, greater than 0x3f: Specification Requirec values $0x1f * N + 0x21$ (for non-negative integer valu Reserved. first unassigned codepoint: Standards Action. (Expert: Mike Bishop, Alan Frindell)

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IANA OUI Ethernet Numbers

IANA Link Layer Discovery Protocol (LLDP) TLV Subtypes	RFC 8520 , RFC 9542 Expert Review (Expert: Eliot Lear, Dan Romascanu)
IANA MAC ADDRESS BLOCK	RFC 9542 See RFC 9542 . (Expert: Donald Eastlake (primary), Jua Zuniga (secondary))

IANA PTP TLV Subtypes	draft-ietf-ntp-over-ntp-08 0-0xFFFF: IETF Review. 0x10000-0x7FFFFFF: Specification Required. 0x800000-0xFFFFFFFF: Experimental and Private Use. (Expert: Unassigned)
SNAP Protocol Numbers	RFC 9542 Expert Review (Expert: Donald Eastlake (primary), Jua Zuniga (secondary))
The CFxxxx Series	
IANA-Maintained MIBs	
IANA-ADDRESS-FAMILY-NUMBERS-MIB	RFC 2677
IANA-BFD-TC-STD-MIB	RFC 7330 IETF Review
IANA-CHARSET-MIB	RFC 3808 See Character Sets
IANA-ENERGY-RELATION-MIB	RFC 7461 Specification Required (Expert: Unassigned)
IANA-ENTITY-MIB	RFC 6933 Expert Review (Expert: Andy Bierman (primary), Jürgen Schönwälder (secondary))
IANA-FINISHER-MIB	RFC 3806 Expert Review (Expert: Ira McDonald, Michael Sweet)
IANA-GMPLS-TC-MIB	RFC 4802 See individual GMPLS registry procedures
IANA-IPPM-METRICS-REGISTRY-MIB	RFC 4148 , RFC 6248 This module has been designated Obsolete. The registry no longer be updated, and the current contents will be maintained as-is.
IANA-ITU-ALARM-TC-MIB	RFC 3877 Expert Review (Expert: Unassigned)
IANA-LANGUAGE-MIB	RFC 3165 Expert Review (Expert: Juergen Schoenwaelder, David
IANA-MALLOC-MIB	RFC 3559 RFC or designated expert review (Expert: Dave Thaler
IANA-MAU-MIB	RFC 4836 Expert Review (Expert: Marek Hajduczenia, Operator Management Area Directors (backup))
IANA-POWER-STATE-SET-MIB	RFC 7460 See https://www.iana.org/assignments/power-state-sets
IANA-PRINTER-MIB	RFC 3805 Expert Review or RFC Required (Expert: Ira McDonald Michael Sweet)
IANA-RTPROTO-MIB	RFC 2932 RFC or Expert Review (Expert: Dave Thaler)
IANA-SMF-MIB	RFC 7367 IANAAsmfOpModeIdTC: First Come First Served. IANAAsmfRssaIdTC: 1-127, Standards Action; 128-239, Reserved for Private or Local Use; 240-255, Experimental RFC.
IANA-STORAGE-MEDIA-TYPE-MIB	RFC 7666 Expert Review (Expert: Unassigned)
IANAifType-MIB	RFC 2863 , RFC 8892 This is one of the available formats of the Interface Types (ifType) and Tunnel Types (tunnelType) registries. (Expert: Dave Thaler (primary), Dan Romascanu (secondary))
IANAolsrv2LinkMetricType-MIB	RFC 7184 Expert Review (Expert: Unassigned)

[IANATn3270eTC-MIB](#)[RFC 2561](#)

Working Group Review (see DESCRIPTION clause associated with the MODULE-IDENTITY statement)

iCalendar Element Registries[Actions](#)[RFC 5545](#)

Expert Review with RFC Required (Expert: Bernard Desruisseaux, Ken Murchison, Mike Douglass)

[Calendar User Types](#)[RFC 5545](#)

Expert Review with RFC Required (Expert: Bernard Desruisseaux, Ken Murchison, Mike Douglass)

[Classifications](#)[RFC 5545](#)

Expert Review with RFC Required (Expert: Bernard Desruisseaux, Ken Murchison, Mike Douglass)

[Components](#)[RFC 5545](#)

Expert Review with RFC Required (Expert: Bernard Desruisseaux, Ken Murchison, Mike Douglass)

[Display Types](#)[RFC 7986](#)

Expert Review with RFC Required (Expert: Unassigned)

[Feature Types](#)[RFC 7986](#)

Expert Review with RFC Required (Expert: Unassigned)

[Free/Busy Time Types](#)[RFC 5545](#)

Expert Review with RFC Required (Expert: Bernard Desruisseaux, Ken Murchison, Mike Douglass)

[Methods](#)[RFC 5545](#)

Expert Review with RFC Required (Expert: Bernard Desruisseaux, Ken Murchison, Mike Douglass)

[Parameters](#)[RFC 5545](#)

Expert Review with RFC Required (Expert: Bernard Desruisseaux, Ken Murchison, Mike Douglass)

[Participant Types](#)[RFC 9073](#)

Expert Review (Expert: Ken Murchison, Michael Douglass)

[Participation Roles](#)[RFC 5545](#)

Expert Review with RFC Required (Expert: Bernard Desruisseaux, Ken Murchison, Mike Douglass)

[Participation Statuses](#)[RFC 5545](#)

Expert Review with RFC Required (Expert: Bernard Desruisseaux, Ken Murchison, Mike Douglass)

[Properties](#)[RFC 5545](#)

Expert Review with RFC Required (Expert: Bernard Desruisseaux, Ken Murchison, Mike Douglass)

[Proximity Values](#)[RFC 9074](#)

Expert Review with RFC Required (Expert: Ken Murchison, Michael Douglass)

[Relationship Types](#)[RFC 5545](#)

Expert Review with RFC Required (Expert: Bernard Desruisseaux, Ken Murchison, Mike Douglass)

[REQUEST-STATUS Values](#)[RFC 5546](#)

Expert Review with RFC Required (Expert: Bernard Desruisseaux, Ken Murchison, Mike Douglass)

[Resource Types](#)[RFC 9073](#)

Expert Review (Expert: Ken Murchison, Michael Douglass)

[Schedule Agent Values Registry](#)[RFC 6638](#)

Expert Review with RFC Required (Expert: Unassigned)

[Schedule Force Send Values Registry](#)[RFC 6638](#)

Expert Review with RFC Required (Expert: Unassigned)

[Value Data Types](#)[RFC 5545](#)

Expert Review with RFC Required (Expert: Bernard Desruisseaux, Ken Murchison, Mike Douglass)

IDNA Rules and Derived Property Values[IDNA Contextual Rules](#)[RFC 5892](#), [RFC 6452](#), [RFC 8753](#), [RFC 9233](#)
IETF Review[IDNA Derived Properties](#)[RFC 5892](#), [RFC 6452](#), [RFC 8753](#), [RFC 9233](#)
Expert Review (Expert: Patrik Faltstrom (team lead), T Nemoto, Peter Saint-Andre)**IEEE 802 Numbers**[Ethertypes](#)[RFC 9542](#)
Not assigned by IANA. Per [RFC 9542](#), updates to this are coordinated with the expert. (Expert: Donald East (primary), Juan Carlos Zuniga (secondary))[Logical Link Control \(LLC\) Numbers](#)Not assigned by IANA. Per [RFC 9542](#), updates to this are coordinated with the expert. (Expert: Donald East (primary), Juan Carlos Zuniga (secondary))[Organizationally Unique Identifiers](#)Not assigned by IANA. Per [RFC 9542](#), updates to this are coordinated with the expert. (Expert: Donald East (primary), Juan Carlos Zuniga (secondary))**IEEE Std 802.15.4 IETF IE Subtype IDs**[IEEE Std 802.15.4 IETF IE Subtype IDs](#)[RFC 8137](#)
Expert Review (Expert: Tero Kivinen, Pat Kinney)**IETF XML Registry**[ns](#)[RFC 3688](#)
IETF-controlled space: IETF Review With Expert Review
Non-IETF space: Specification Required.
(Expert: Tim Bray, Martin Thomson)[publicid](#)[RFC 3688](#)
IETF-controlled space: IETF Review With Expert Review
Non-IETF space: Specification Required.
(Expert: Tim Bray, Martin Thomson)[rdfschema](#)[RFC 3688](#)
IETF-controlled space: IETF Review With Expert Review
Non-IETF space: Specification Required.
(Expert: Tim Bray, Martin Thomson)[schema](#)[RFC 3688](#), [RFC 6685](#)
IETF-controlled space: IETF Review With Expert Review
Non-IETF space: Specification Required.
(Expert: Tim Bray and Martin Thomson for non-IODEI schemas, Kathleen Moriarty for IODEF schemas)**In Situ OAM (IOAM)**[IOAM DEX Extension-Flags](#)[RFC 9326](#)
IETF Review[IOAM DEX Flags](#)[RFC 9326](#)
IETF Review[IOAM E2E-Type](#)[RFC 9197](#)
IETF Review[IOAM Namespace-ID](#)[RFC 9197](#)
0x0000: Expert Review.
0x0001-0x7FFF: Private Use.
0x8000-0xFFFF: Expert Review.
(Expert: Unassigned)[IOAM Option-Type](#)[RFC 9197](#)
IETF Review[IOAM POT-Flags](#)[RFC 9197](#)
IETF Review[IOAM POT-Type](#)[RFC 9197](#)
IETF Review

IOAM Trace-Flags	RFC 9197 IETF Review
IOAM Trace-Type	RFC 9197 IETF Review

In Situ OAM (IOAM) Capabilities

IOAM SoP Capability	draft-ietf-ippm-ioam-conf-state-10 IETF Review
IOAM TSF Capability	draft-ietf-ippm-ioam-conf-state-10 IETF Review

Incident Object Description Exchange Format (IODEF)

Structured Cybersecurity Information (SCI) Specifications	RFC 7203 Specification Required (Expert: Unassigned)
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Incident Object Description Exchange Format v2 (IODEF)

Address-category	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takai)
BulkObservable-type	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takai)
BusinessImpact-severity	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takai)
BusinessImpact-type	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takai)
Confidence-rating	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takai)
Contact-role	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takai)
Contact-type	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takai)
Counter-type	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takai)
Counter-unit	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takai)
Discovery-source	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takai)
DomainData-domain-status	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takai)
DomainData-system-status	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takai)
Email-type	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takai)
Expectation-action	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takai)
ExtensionType-dtype	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takai)
HashData-scope	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takai)
Incident-purpose	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takai)
Incident-status	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takai)
IndicatorExpression-operator	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takai)
Key-registryaction	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takai)

NodeRole-category	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takaf)
PostalAddress-type	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takaf)
RecordPattern-offsetunit	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takaf)
RecordPattern-type	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takaf)
RegistryHandle-registry	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takaf)
Restriction	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takaf)
SoftwareReference-dtype	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takaf)
SoftwareReference-spec-id	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takaf)
System-category	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takaf)
System-ownership	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takaf)
SystemImpact-type	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takaf)
Telephone-type	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takaf)
TimeImpact-duration	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takaf)
TimeImpact-metric	RFC 7970 Expert Review (Expert: Roman Danyliw, Takeshi Takaf)
Instance Manipulation Values	
Instance Manipulation Values	RFC 3229 Specification Required (Expert: Unassigned)
Instant Message Disposition Notification (IMDN) Headers	
IMDN Headers	RFC 5438 Specification Required (Expert: Unassigned)
Instant Messaging SRV Protocol Label Registry	
Instant Messaging SRV Protocol Label Registry	RFC 3861 Specification Required (Expert: Unassigned)
Integrated Services Parameters	
Compression Hints	RFC 3006 IETF Review
Parameter Names	RFC 2216 1-127: Parameters defined in RFC 2215 . 128-254: Parameters defined by author of service specification document (Service and Data Element N:
Service Names	RFC 2216 2-127: RFC Required. 128-254: Experimental use.
Inter-Asterisk eXchange (IAX) Parameters	
IAX Authentication Methods	RFC 5457 Expert Review (Expert: Cullen Jennings)
IAX Calling Presentation	RFC 5457 Expert Review (Expert: Cullen Jennings)
IAX Calling Type of Number	RFC 5457 Expert Review (Expert: Cullen Jennings)

IAX Cause Codes	RFC 5457 Expert Review (Expert: Cullen Jennings)
IAX Control Frame Subclass	RFC 5457 Expert Review (Expert: Cullen Jennings)
IAX Control Frames	RFC 5457 Expert Review (Expert: Cullen Jennings)
IAX Dialplan Status Flags	RFC 5457 Expert Review (Expert: Cullen Jennings)
IAX Encryption Methods	RFC 5457 Expert Review (Expert: Cullen Jennings)
IAX Frame Types	RFC 5457 Expert Review (Expert: Cullen Jennings)
IAX HTML Command Subclasses	RFC 5457 Expert Review (Expert: Cullen Jennings)
IAX Information Elements	RFC 5457 Expert Review (Expert: Cullen Jennings)
IAX Media Formats	RFC 5457 Expert Review (Expert: Cullen Jennings)
IAX Meta Commands	RFC 5457 Expert Review (Expert: Cullen Jennings)
IAX Transit Network Identification Plan	RFC 5457 Expert Review
IAX Type of Network	RFC 5457 Expert Review (Expert: Cullen Jennings)
Interactive Connectivity Establishment (ICE)	
ICE Options	RFC 8839 Specification Required (Expert: Ari Keränen)
ICE Transport Protocols	RFC 6544 IETF Review or IESG Approval
Interface Parameters	
Interface Types (ifType)	RFC 1213 , RFC 2863 , RFC 7224 , RFC 8892 Expert Review (Expert: Dave Thaler (primary), Dan Romascanu (secondary))
Transmission Number Values	RFC 1213 , RFC 8892 Specification Required (Expert: Dave Thaler (primary) Romascanu (secondary))
Tunnel Types (tunnelType)	RFC 4087 , RFC 8675 , RFC 8892 Expert Review (Expert: Dave Thaler (primary), Dan Romascanu (secondary))
Interior Gateway Protocol (IGP) Parameters	
IGP Algorithm Type For Computing Flooding Topology	draft-ietf-lsr-dynamic-flooding-18 Expert Review (Expert: Unassigned)
IGP Algorithm Types	RFC 8665 Standards Action
IGP Flex-Algorithm Path Computation Rules	RFC 9917 Expert Review (Expert: Unassigned)
IGP Flexible Algorithm Definition Flags	RFC 9350 Standards Action
IGP Metric-Type	RFC 9350 , RFC 9843 0-127: Standards Action. 128-255: User-Defined Metric.
IGP MSD-Types	RFC 8491 , RFC 9702 Expert Review (Expert: Uma Chunduri, Jeff Tantsura)
Link Attribute Application Identifiers	RFC 9479 Expert Review (Expert: Les Ginsberg, Chris Hopps)

Path Computation Element (PCE) Capability Flags	RFC 9353 IETF Review
PCE Discovery (PCED) Sub-TLV Type Indicators	RFC 9353 Standards Action

Internet - Xerox Network System (XNS) Protocol Mappings

Internet - Xerox Network System (XNS)
Protocol Mappings

Internet Control Message Protocol (ICMP) Parameters

Code Fields	RFC 2780
ICMP Extension Object Classes and Class Sub-types	RFC 4884 0-246: First Come First Served. 247-255: Private Use.
ICMP Type Numbers	RFC 2780, RFC 9899 IESG Approval or Standards Action

Internet Control Message Protocol version 6 (ICMPv6) Parameters

6LoWPAN Capability Bits	RFC 7400 IETF Review or IESG Approval
Address Registration Option Flags	RFC 8505 IETF Review or IESG Approval
Address Registration Option I-Field	RFC 8505 IETF Review or IESG Approval
Address Registration Option Status Values	RFC 6775, RFC 9010 Standards Action
Certificate option (Type 16) Cert Type field	RFC 3971 Standards Action
Crypto-Types	RFC 8928 Specification Required or IESG Approval (Expert: Pascal Thubert, Mohit Sethi)
EDAR Message Flags	RFC 9685 IETF Review or IESG Approval
FMIPv6 Message Types (Value 154)	RFC 5568 RFC Required
ICMPv6 "Code" Fields	RFC 4443
ICMPv6 "type" Numbers	RFC 4443, RFC 9899 0-127 (Error messages): IETF Review. 128-255 (Informational messages): IETF Review.
IPv6 ND Router Advertisement Flags	RFC 5175 Standards Action or IESG Approval
IPv6 Neighbor Discovery Option Formats	RFC 4861 RFC Required
IPv6 Neighbor Discovery Prefix Information Option Flags	RFC 8425 Standards Action
Option-Code for Handover Assist Information Option (Type 29)	RFC 5271 Standards Action or IESG Approval
Option-Code for Mobile Node Identifier Option (Type 30)	RFC 5271 Standards Action or IESG Approval
P-Field Values	RFC 9685 Standards Action
PvD Option Flags	RFC 8801 Standards Action
Qtypes	RFC 4620 IETF Review
Trust Anchor option (Type 15) Name Type field	RFC 3971, RFC 6495 Standards Action or IESG Approval

Internet Date/Time Format

Timestamp Suffix Tag Keys	RFC 9557 Permanent: Specification Required. Provisional: Expert Review. (Expert: Ujjwal Sharma, Bron Gondwana)
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Internet Group Management Protocol (IGMP) Type Numbers

"Code" Fields	RFC 9778 Standards Action
IGMP Type Numbers	RFC 9778 Standards Action
IGMP/MLD Extension Types	RFC 9279 0-65533: IETF Review. 65534-65535: Experimental Use.
IGMP/MLD Query Message Flags	RFC 9778 Standards Action
IGMP/MLD Report Message Flags	RFC 9778 Standards Action

Internet Key Exchange (IKE) Attributes

Additional Exchanges Defined-- XCHG values	RFC 2409 , RFC 9395 Registry closed
Attribute Classes	RFC 2409 , RFC 9395 Registry closed
Encryption Algorithm Class Values (Value 1)	RFC 2409 , RFC 9395 Registry closed
Exchange Type	RFC 2408 , RFC 9395 Registry closed
Group Description (Value 4)	RFC 2409 , RFC 9395 Registry closed
Group Type (Value 5)	RFC 2409 , RFC 9395 Registry closed
Hash Algorithm (Value 2)	RFC 2409 , RFC 9395 Registry closed
IPSEC Authentication Methods (Value 3)	RFC 2409 , RFC 9395 Registry closed
ISAKMP Domain of Interpretation (DOI)	RFC 2408 , RFC 9395 Registry closed
Life Type (Value 11)	RFC 2409 , RFC 9395 Registry closed
Next Payload Types	RFC 2408 , RFC 9395 Registry closed
Notify Message Types	RFC 2408 , RFC 9395
Notify Messages - Error Types (1-8191)	RFC 2408 , RFC 9395 Registry closed
PRF (Value 13)	RFC 2409 , RFC 9395 Registry closed

Internet Key Exchange Version 2 (IKEv2) Parameters

Group Key Bag Attributes	RFC 9838 Expert Review (Expert: Tero Kivinen, Valery Smyslov)
Group SA Attributes	RFC 9838 Expert Review (Expert: Tero Kivinen, Valery Smyslov)
Group-Wide Policy Attributes	RFC 9838 Expert Review (Expert: Tero Kivinen, Valery Smyslov)
IKEv2 Authentication Method	RFC 7296 Expert Review (Expert: Tero Kivinen, Valery Smyslov)

IKEv2 Certificate Encodings	RFC 7296 Expert Review (Expert: Tero Kivinen, Valery Smyslov)
IKEv2 Configuration Payload Attribute Types	RFC 7296 Expert Review (Expert: Tero Kivinen, Valery Smyslov)
IKEv2 Configuration Payload CFG Types	RFC 7296 Expert Review (Expert: Tero Kivinen, Valery Smyslov)
IKEv2 Exchange Types	RFC 7296 Expert Review (Expert: Tero Kivinen, Valery Smyslov)
IKEv2 Gateway Identity Types	RFC 5685 Expert Review (Expert: Tero Kivinen, Valery Smyslov)
IKEv2 Hash Algorithms	RFC 7427 Expert Review (Expert: Tero Kivinen, Valery Smyslov)
IKEv2 Identification Payload ID Types	RFC 7296 Expert Review (Expert: Tero Kivinen, Valery Smyslov)
IKEv2 Notification IPCOMP Transform IDs (Value 16387)	RFC 7296 Expert Review (Expert: Tero Kivinen, Valery Smyslov)
IKEv2 Notify Message Error Types	RFC 7296 0-8191: Expert Review. 8192-16383: Private Use. (Expert: Tero Kivinen, Valery Smyslov)
IKEv2 Notify Message Status Types	RFC 7296 16384-40959: Expert Review. 40960-65535: Private Use. (Expert: Tero Kivinen, Valery Smyslov)
IKEv2 Payload Types	RFC 7296 Expert Review (Expert: Tero Kivinen, Valery Smyslov)
IKEv2 Post-quantum Preshared Key ID Types	RFC 8784 1-127: Expert Review. 128-255: Private Use. (Expert: Tero Kivinen, Valery Smyslov)
IKEv2 Secure Password Methods	RFC 6467 Expert Review (Expert: Tero Kivinen, Valery Smyslov)
IKEv2 Security Protocol Identifiers	RFC 7296 Expert Review (Expert: Tero Kivinen, Valery Smyslov)
IKEv2 Traffic Selector Types	RFC 7296 Expert Review (Expert: Tero Kivinen, Valery Smyslov)
Member Key Bag Attributes	RFC 9838 Expert Review (Expert: Tero Kivinen, Valery Smyslov)
ROHC Attribute Types	RFC 5857 Expert Review (Expert: Tero Kivinen, Valery Smyslov)
Transform Type Values	RFC 7296, RFC 9370 Expert Review (Expert: Tero Kivinen, Valery Smyslov)

Internet Message Access Protocol (IMAP) Capabilities

IMAP and JMAP Keywords	RFC 5788, RFC 8621 Expert Review (Expert: Arnt Gulbrandsen, Barry Leiba)
IMAP ANNOTATE Extension Attributes	RFC 5257 Standards Track or IESG-Approved Experimental RFC
IMAP ANNOTATE Extension Entries	RFC 5257 Under vendor namespace: First Come First Served. Not under vendor namespace: Standards Track or IESG-Approved Experimental RFC.
IMAP Capabilities	RFC 3501, RFC 9051 IETF Review
IMAP Mailbox Name Attributes	RFC 3501, RFC 8457, RFC 9051 IETF Review or Expert Review (Expert: Barry Leiba, Br Gondwana)

IMAP METADATA Mailbox Entry Registry	RFC 5464 Standards Track or IESG-Approved Experimental RFC
IMAP METADATA Server Entry Registry	RFC 5464 Standards Track or IESG-Approved Experimental RFC
IMAP Quota Resource Types	RFC 9208 Specification Required (Expert: Alexey Melnikov, Ken Murchison)
IMAP Response Codes	RFC 5530 Expert Review (Expert: Arnt Gulbrandsen, Dave Cridla)
IMAP Threading Algorithms	RFC 5256 Standards Track or IESG-Approved Experimental RFC
IMAP URLAUTH Access Identifiers and Prefixes	RFC 5593 IETF Review
IMAP URLAUTH Authorization Mechanism Registry	RFC 4467 Standards Track or IESG-Approved Experimental RFC
LIST-EXTENDED options	RFC 5258 FCFS; IANA approval template in RFC 5258 section 9.3
LIST-EXTENDED response	RFC 5258 IANA approval template in RFC 5258 section 9.3

Internet Message Store Events

Event Names	RFC 5423 name starts with "vnd."; intended for private use: First Served. name doesn't start with "vnd."; intended for interope use: IETF Review.
Event Parameters	RFC 5423 name starts with "vnd."; intended for private use: First Served. name doesn't start with "vnd."; intended for interope use: IETF Review.

Internet Open Trading Protocol (IOTP) Codes

Algorithm/Name	RFC 2801 Expert Review (Expert: David Burdett)
Attribute/Content	RFC 2801 RFC Required (Expert: David Burdett)
Brand/BrandId	RFC 2801 First Come First Served (Expert: David Burdett)
CurrencyAmount/CurrCode	RFC 2801 First Come First Served (Expert: David Burdett)
CurrencyAmount/CurrCodeType	RFC 2801 Expert Review (Expert: David Burdett)
DeliveryData/DelivMethod	RFC 2801 Expert Review (Expert: David Burdett)
PackagedContent/Content	RFC 2801 Expert Review (Expert: David Burdett)
RelatedTo/RelationshipType	RFC 2801 Expert Review (Expert: David Burdett)
Status/StatusType	RFC 2801 RFC Required (Expert: David Burdett)
TradingRole/Trading Role	RFC 2801 RFC Required (Expert: David Burdett)
TransId/IotpTransType	RFC 2801 RFC Required (Expert: David Burdett)

Internet Printing Protocol (IPP) Registrations

Attribute Group Tags	RFC 8011 Specification Required (Expert: Ira McDonald, Michael)
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Attribute Syntaxes	RFC 8011 Specification Required (Expert: Ira McDonald, Michael Sweet)
Attributes	RFC 8011 Expert Review (Expert: Ira McDonald, Michael Sweet)
Enum Attribute Values	RFC 8011 type1: Specification Required. type2: Expert Review. (Expert: Ira McDonald, Michael Sweet)
Keyword Attribute Values	RFC 8011 type1: Specification Required. type2: Expert Review. (Expert: Ira McDonald, Michael Sweet)
Objects	RFC 8011 Specification Required (Expert: Ira McDonald, Michael Sweet)
Operations	RFC 8011 Expert Review (Expert: Ira McDonald, Michael Sweet)
Out-of-Band Attribute Value Tags	RFC 8011 Specification Required (Expert: Ira McDonald, Michael Sweet)
Status Codes	RFC 8011 Expert Review (Expert: Ira McDonald, Michael Sweet)

Internet Protocol version 4 (IPv4) Address Space

Allocations made from the Current Recovered IPv4 Pool	Global Policy for Post Exhaustion IPv4 Allocation Mechanisms by the IANA (Ratified 6 May 2012)
Current Recovered IPv4 Pool	Global Policy for Post Exhaustion IPv4 Allocation Mechanisms by the IANA (Ratified 6 May 2012)
IPv4 Address Space	RFC 7249 Allocations to RIRs are made in line with the Global P published at http://www.icann.org/en/resources/policy/global-adc All other assignments require IETF Review.
IPv4 Special-Purpose Address Space	RFC 5736, RFC 6890, RFC 8190 IETF Review

Internet Protocol Version 4 (IPv4) Parameters

IP Option Numbers	Not defined
IP Time to Live Parameter	Not defined
IP TOS Parameters	Registrations no longer accepted
IPv4 Router Alert Option Values	RFC 5350 IETF Review
Type-of-Service Values	Registrations no longer accepted

Internet Protocol version 6 (IPv6) Global Unicast Allocations

IPv6 Global Unicast Address Space	RFC 7249 Allocations to RIRs are made in line with the Global P published at http://www.icann.org/en/resources/policy/global-adc All other assignments require IETF Review.
IPv6 Special-Purpose Address Space	RFC 4773, RFC 6890, RFC 8190 IETF Review

Internet Protocol Version 6 (IPv6) Parameters

Destination Options and Hop-by-Hop Options	RFC 8200, RFC 2780, RFC 9673 IESG Approval, IETF Review or Standards Action
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IPv6 Extension Header Types	RFC 2780 , RFC 5237 , RFC 7045 , RFC 9899 Standards Action or IESG Approval
Next Header Types	RFC 8200 , RFC 2780 , RFC 7045
Routing Types	RFC 8200 , RFC 5871 IETF Review or IESG Approval
RPL-option-TLV	RFC 6553 IETF Review
Segment Routing Header Flags	RFC 8754 IETF Review
Segment Routing Header TLVs	RFC 8754 IETF Review
TaggerId Types	RFC 6621 IETF Review

Internet Small Computer System Interface (iSCSI) Parameters

iSCSI Asynchronous Events	RFC 7143 Standards Action
iSCSI authentication methods	RFC 7143 IETF Review
iSCSI digests	RFC 7143 IETF Review
iSCSI Login Response Status Codes	RFC 7143 Standards Action
iSCSI Login/Text Keys	RFC 7145 , RFC 7143 IETF Review
iSCSI Opcodes	RFC 7143 Standards Action to define the semantics of the opco Expert Review to select the specific opcode(s) (Expert Unassigned)
iSCSI Protocol Level	RFC 7144 Expert Review and Standards Action (Expert: Unassign
iSCSI Reject Reason Codes	RFC 7143 Standards Action
iSCSI Task Management Function Codes	RFC 7143 Standards Action
iSCSI Task Management Function Response Codes	RFC 7144 Standards Action
iSER Opcodes	RFC 7145 Standards Action
SRP_GROUP key values	RFC 3723 Specification Required (Expert: Unassigned)

Internet Storage Name Service (iSNS) Parameters

Block Storage Protocols	RFC 4171 Expert Review (by IPS WG Chairperson or by Designa Expert) (Expert: David Black)
Standard iSNS Attributes	RFC 4171 IETF Review

Intrusion Detection Exchange Protocol (IDXP) Options

IDXP Options	RFC 4767 Expert Review (Expert: Ben Feinstein)
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Intrusion Detection Message Exchange Format (IDMEF) Parameters

Attribute Values	RFC 4765 Specification Required (Expert: Unassigned)
Class and Attribute Names	RFC 4765 IETF Review

IP Flow Information Export (IPFIX) Entities

IPFIX Information Element Data Types	RFC 5610 Standards Action
IPFIX Information Element Semantics	RFC 5610 Standards Action
IPFIX Information Element Units	RFC 5610 Expert Review (Expert: IE Doctors (Andrew Feren, Bri Trammell, Nevil Brownlee, Paul Aitken))
IPFIX Information Elements	RFC 7012 , RFC 9710 Expert Review (Expert: IE Doctors (Andrew Feren, Bri Trammell, Nevil Brownlee, Paul Aitken))
IPFIX ipv6ExtensionHeaders Bits	RFC 9740 Expert Review (Expert: Paul Aitken, Jen Linkova)
IPFIX Set IDs	RFC 7011 Standards Action
IPFIX Structured Data Types Semantics	RFC 6313 Standards Action
IPFIX Version Numbers	RFC 7011 Standards Action

IP Multicast Traceroute Facility (Mtrace)

Mtrace2 Forwarding Codes	RFC 8487 Specification Required (Expert: Unassigned)
Mtrace2 TLV Types	RFC 8487 Specification Required (Expert: Unassigned)

IP Version Numbers

IP Version Numbers	RFC 2780 Standards Action
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IPS Protocol# (Protocol Number) Field

Protocol# (Protocol Number) Field	RFC 3643 1-239: Standards Action. 240-255: Private Use.
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IPSECKEY Resource Record Parameters

Algorithm Type Field	RFC 4025 , RFC 9373 IETF Review
Gateway Type Field	RFC 4025 Standards Action

IPv4 Multicast Address Space

AD-HOC Block I (224.0.2.0 - 224.0.255.255)	RFC 5771 Expert Review, IESG Approval, or Standards Action (E: Stig Venaas)
AD-HOC Block II (224.3.0.0-224.4.255.255 (224.3/16, 224.4/16))	RFC 5771 Expert Review, IESG Approval, or Standards Action (E: Stig Venaas)
AD-HOC Block III (233.252.0.0-233.255.255.255 (233.252/14))	RFC 5771 Expert Review, IESG Approval, or Standards Action (E: Stig Venaas)
DIS Transient Groups 224.252.0.0-224.255.255.255 (224.252/14))	RFC 2365 (Expert: Stig Venaas)
GLOP Block	RFC 3180 (Expert: Stig Venaas)
Internetwork Control Block (224.0.1.0 - 224.0.1.255 (224.0.1/24))	RFC 5771 Expert Review, IESG Approval, or Standards Action (E: Stig Venaas)
Local Network Control Block (224.0.0.0 - 224.0.0.255 (224.0.0/24))	RFC 5771 Expert Review, IESG Approval, or Standards Action (E: Stig Venaas)

	Stig Venaas)
Relative Addresses used with Scoped Multicast Addresses	RFC 5771 (Expert: Stig Venaas)
RESERVED (224.1.0.0-224.1.255.255 (224.1/16))	RFC 5771 (Expert: Stig Venaas)
RESERVED (224.5.0.0-224.251.255.255 (251/16s))	RFC 5771 (Expert: Stig Venaas)
RESERVED (225.0.0.0-231.255.255.255 (7/8s))	RFC 5771 (Expert: Stig Venaas)
Scoped Multicast Ranges	RFC 5771 (Expert: Stig Venaas)
SDP/SAP Block (224.2.0.0-224.2.255.255 (224.2/16))	RFC 5771 (Expert: Stig Venaas)
Source-Specific Multicast Block (232.0.0.0-232.255.255.255 (232/8))	RFC 5771 (Expert: Stig Venaas)
Unicast-Prefix-based IPv4 Multicast Addresses	RFC 6034 (Expert: Stig Venaas)
IPv6 Address Space	
IPv6 Address Space	
IPv6 Anycast Address Space	
IPv6 Anycast Address Space	RFC 4291, RFC 2526 IESG Approval
IPv6 Anycast Subnet-Router Anycast Address	RFC 4291 IESG Approval
IPv6 Low Power Personal Area Network Parameters	
Critical 6LoWPAN Routing Header Type	RFC 8138 RFC Required
Dispatch Type Field	RFC 4944, RFC 8025 Specification Required (Expert: Carles Gomez, Shweth Bhandari, Pascal Thubert (secondary expert))
Elective 6LoWPAN Routing Header Type	RFC 8138 RFC Required
ESC Extension Types	RFC 8066 Specification Required (Expert: Shwetha Bhandari)
LOWPAN_NHC Header Type	RFC 6282 IETF Review
Short Address Fields	RFC 4944 Specification Required (Expert: Carles Gomez)
IPv6 Multicast Address Space	
IPv6 Multicast Address Scopes	RFC 7346 IETF Review (Expert: Stig Venaas)
Link-Local Scope Multicast Addresses	RFC 3307 Expert Review (Expert: Stig Venaas)
Node-Local Scope Multicast Addresses	RFC 4291, RFC 3307 Expert Review (Expert: Stig Venaas)
Site-Local Scope Multicast Addresses	RFC 3307 Expert Review (Expert: Stig Venaas)
Unicast-based (Including SSM) Multicast Group IDs	RFC 3307 Addresses in FF3X:0::/32 but not listed below are reserved for future SSM address use, but are currently invalid. FF3X:0:0:0:0:0:0:0-FF3X:0:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF (FF3X:0::/32) FF3X:0:0:0:0:0:0:0-4000:0-FF3X:0:0:0:0:0:0:0:7FFF Expert Review; see registry at https://www.iana.org/assignments/perm-mcast-group-ids FF3X:0:0:0:0:0:8000:0-FF3X:0:0:0:0:0:0:0:FFFF:FFFF - Dynar

	allocated by hosts when needed RFC 4607 . (Expert: Stig Venaas)
Variable Scope Multicast Addresses	RFC 3307 Expert Review (Expert: Stig Venaas)
IPv6 Over the TSCH Mode of IEEE 802.15.4 (6TiSCH)	
6P CellOptions Bitmap	RFC 8480 IETF Review or IESG Approval
6P Command Identifiers	RFC 8480 IETF Review or IESG Approval
6P Message Types	RFC 8480 IETF Review or IESG Approval
6P Return Codes	RFC 8480 IETF Review or IESG Approval
6P Scheduling Function Identifiers	RFC 8480 0-127: IETF Review or IESG Approval. 128-255: Expert Review. (Expert: Xavi Vilajosana Guillen, Thomas Watteyne)
6P Version Numbers	RFC 8480 IETF Review or IESG Approval
Constrained Join Protocol (CoJP) Key Usage	RFC 9031 Integer values less than -65536: Private Use. Integer values from -65536 to -257: Specification Required Integer values from -256 to 255: Standards Action. Integer values from 256 to 65535: Specification Required Integer values greater than 65535: Expert Review. (Expert: Mališa Vučinić, Michael Richardson)
Constrained Join Protocol (CoJP) Parameters	RFC 9031 Integer values less than -65536: Private Use. Integer values from -65536 to -257: Specification Required Integer values from -256 to 255: Standards Action. Integer values from 256 to 65535: Specification Required Integer values greater than 65535: Expert Review. (Expert: Mališa Vučinić, Michael Richardson)
Constrained Join Protocol (CoJP) Unsupported Configuration Codes	RFC 9031 Integer values less than -65536: Private Use. Integer values from -65536 to -257: Specification Required Integer values from -256 to 255: Standards Action. Integer values from 256 to 65535: Specification Required Integer values greater than 65535: Expert Review. (Expert: Mališa Vučinić, Michael Richardson)
IPv6 Router Alert Option Values	
IPv6 Router Alert Option Values	RFC 2711 , RFC 9805 Registry closed
IPv6 Top Level Aggregation Identifier Assignments	
Sub-TLA Identifier Assignments	RFC 4147 Registrations no longer accepted
TLA Identifier Assignments	RFC 4147 Registrations no longer accepted
IS-IS	
IS-IS Application Identifiers for Generic Information TLV	RFC 6823 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
IS-IS Authentication Type Codes	RFC 5304 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
IS-IS Bit Values for Flooding Parameters Flags Sub-TLV	RFC 9681 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)

IS-IS Bit Values for Prefix Attribute Flags Sub-TLV	RFC 7794 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
IS-IS Group Address Type Codes for GADDR-TLV	RFC 7176 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
IS-IS Multi-Topology ID Values	RFC 5120 0-3995: Expert Review. 3996-4095: Private Use. (Expert: Chris Hopps, Hannes Gredler, Les Ginsberg)
IS-IS Neighbor Link-Attribute Bit Values	RFC 5029 , RFC 9667 , RFC 9650 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
IS-IS PDU Registry	RFC 7176 IETF Review
IS-IS SRv6 Adjacency SID Sub-TLVs Flags	RFC 9352 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
IS-IS SRv6 Capabilities Sub-TLV Flags	RFC 9352 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
IS-IS SRv6 End SID Sub-TLV Flags	RFC 9352 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
IS-IS SRv6 Locator TLV Flags	RFC 9352 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
IS-IS Sub-Sub-TLV Codepoints for Application-Specific Link Attributes	RFC 9479 , RFC 9885 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
IS-IS Sub-Sub-TLVs for BIER Info Sub-TLV	RFC 8401 , RFC 9885 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
IS-IS Sub-Sub-TLVs for Flexible Algorithm Definition Sub-TLV	RFC 9350 , RFC 9885 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
IS-IS Sub-Sub-TLVs for Flood Reflection Discovery Sub-TLV	RFC 9377 , RFC 9885 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
IS-IS Sub-Sub-TLVs for SRv6 Capabilities Sub-TLV	RFC 9352 , RFC 9885 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
IS-IS Sub-Sub-TLVs for SRv6 SID Sub-TLVs	RFC 9352 , RFC 9885 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
IS-IS Sub-TLVs for Application-Specific SRLG TLV	RFC 9479 , RFC 9885 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
IS-IS Sub-TLVs for Flooding Parameters TLV	RFC 9681 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
IS-IS Sub-TLVs for IS-IS Router CAPABILITY TLV	RFC 7981 , RFC 9885 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
IS-IS Sub-TLVs for MT-Capability TLV	RFC 6329 , RFC 9885 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
IS-IS Sub-TLVs for MT-Port-Cap-TLV	RFC 7176 Expert Review (Expert: Chris Hopps, Hannes Gredler,

	Ginsberg)
IS-IS Sub-TLVs for Reverse Metric TLV	RFC 8500 , RFC 9885 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
IS-IS Sub-TLVs for Segment Identifier/Label Binding TLVs	RFC 8667 , RFC 9885 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
IS-IS Sub-TLVs for the Area Proxy TLV	RFC 9666 Expert Review with RFC Required (Expert: Chris Hopp Hannes Gredler, Les Ginsberg)
IS-IS Sub-TLVs for TLVs Advertising Neighbor Information	RFC 5305 , RFC 5316 , RFC 7370 , RFC 8668 , RFC 9885 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
IS-IS Sub-TLVs for TLVs Advertising Prefix Reachability	RFC 5305 , RFC 7370 , RFC 9352 , RFC 9885 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
IS-IS Top-Level TLV Codepoints	RFC 3563 , RFC 6233 , RFC 7356 , RFC 8918 , RFC 9885 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)
LSP Flooding Scope Identifier Registry	RFC 7356 Expert Review (Expert: Chris Hopps, Hannes Gredler, Ginsberg)

J

Java Message Service (JMS) URI Scheme Variants

JMS URI Scheme Variants	RFC 6167 First Come First Served
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JSCalendar

JSCalendar Enum Values	RFC 8984 Expert Review (Expert: Robert Stepanek, Neil Jenkins, Douglass)
JSCalendar Properties	RFC 8984 , draft-ietf-jmap-calendars-22 Expert Review (Expert: Robert Stepanek, Neil Jenkins, Douglass)
JSCalendar Types	RFC 8984 Expert Review (Expert: Robert Stepanek, Neil Jenkins, Douglass)

JSContact

JSContact Enum Values	RFC 9553 Major version change required: Standards Action. All other assignments: Specification Required. (Expert: Michael Douglass, Mario Loffredo, Robert Stepanek)
JSContact Properties	RFC 9553 Major version change required: Standards Action. All other assignments: Specification Required. (Expert: Michael Douglass, Mario Loffredo, Robert Stepanek)
JSContact Types	RFC 9553 Major version change required: Standards Action. All other assignments: Specification Required. (Expert: Michael Douglass, Mario Loffredo, Robert Stepanek)
JSContact Version	RFC 9553 Major version change required: Standards Action. All other assignments: Specification Required. (Expert: Michael Douglass, Mario Loffredo, Robert Stepanek)

JSON Meta Application Protocol (JMAP)

JMAP Capabilities	RFC 8620 intended use field is "common" or "placeholder": Specification Required. all other values: Expert Review.
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	(Expert: Neil Jenkins, Chris Newman, Arnt Gulbrandse Baum)
JMAP Data Types	RFC 9404 Specification Required (Expert: Ken Murchison, Neil Je Arnt Gulbrandsen, Joris Baum)
JMAP Error Codes	RFC 8620 Expert Review (Expert: Neil Jenkins, Chris Newman, A Gulbrandsen, Joris Baum)
JSON Object Signing and Encryption (JOSE)	
JSON Web Encryption Compression Algorithms	RFC 7518 Specification Required (Expert: Sean Turner, Mike Jon Skokan)
JSON Web Key Elliptic Curve	RFC 7518, RFC 7638 Specification Required (Expert: Sean Turner, Mike Jon Skokan)
JSON Web Key Operations	RFC 7517 Specification Required (Expert: Sean Turner, Mike Jon Skokan)
JSON Web Key Parameters	RFC 7517, RFC 7638 Specification Required (Expert: Sean Turner, Mike Jon Skokan)
JSON Web Key Set Parameters	RFC 7517 Specification Required (Expert: Sean Turner, Mike Jon Skokan)
JSON Web Key Types	RFC 7518, RFC 7638 Specification Required (Expert: Sean Turner, Mike Jon Skokan)
JSON Web Key Use	RFC 7517 Specification Required (Expert: Sean Turner, Mike Jon Skokan)
JSON Web Signature and Encryption Algorithms	RFC 7518, RFC 9864 Specification Required (Expert: Sean Turner, Mike Jon Skokan)
JSON Web Signature and Encryption Header Parameters	RFC 7515 Specification Required (Expert: Sean Turner, Mike Jon Skokan)
JSON Web Token (JWT)	
JSON Web Token Claims	RFC 7519 Specification Required (Expert: Brian Campbell, Mike Nat Sakimura, Filip Skokan)
JWT Confirmation Methods	RFC 7800 Specification Required (Expert: John Bradley, Hannes Tschofenig)
PASSporT RCD Claim Types	RFC 9795 Specification Required (Expert: Chris Wendt, Jon Pete)
PASSporT Resource Priority Header (rph) Types	RFC 8443 Specification Required (Expert: Martin Dolly, Subir Da)
Personal Assertion Token (PASSporT) Extensions	RFC 8225 Specification Required (Expert: Chris Wendt (primary), Housley (secondary))
JSONPath	
Function Extensions	RFC 9535 Expert Review (Expert: Glyn Normington)
K	
Kerberized Internet Negotiation of Keys (KINK) Parameters	
KINK Error Codes	RFC 4430 0-8191: Standards Action or non standards-track RFC

	Expert Review. 8192-16383: Private Use. 16384-4294967295: Reserved. (Expert: Stewart Bryant, Danny McPherson)
KINK Message Types	RFC 4430 1-127: Standards Action or non standards-track RFCs Expert Review. 128-255: Private Use. (Expert: Shoichi Sakane, Ken'ichi Kamada)
KINK Next Payload Types	RFC 4430 0-127: Standards Action or non standards-track RFCs Expert Review. 128-255: Private Use. (Expert: Shoichi Sakane, Ken'ichi Kamada)
Kerberos Parameters	
FAST Armor Types	RFC 6113 Standards Action
FAST Options	RFC 6113 Standards Action
Kerberos Checksum Type Numbers	RFC 3961 Standards Action for standards-track RFCs; non-standards-track RFCs must be reviewed by an expert. (Expert: Ken Raeburn)
Kerberos Encryption Type Numbers	RFC 3961 Standards Action for standards-track RFCs; non-standards-track RFCs must be reviewed by an expert. (Expert: Ken Raeburn)
Kerberos Message Transport Types	RFC 6784 IETF Review
Kerberos Second Factor Types	RFC 9588 Specification Required (Expert: Simo Sorce, Greg Hudnall)
Kerberos SPAKE Groups	RFC 9588 Specification Required (Expert: Simo Sorce, Greg Hudnall)
Kerberos TCP Extensions	RFC 5021 0-29: Standards Action or IESG Approval. 30: Reserved.
Pre-authentication and Typed Data	RFC 6113 Expert Review (Expert: Sam Hartman (primary), Larry Rind (secondary))
Well-Known Kerberos Principal Names	RFC 6111 Specification Required (Expert: Unassigned)
Well-Known Kerberos Realm Names	RFC 6111 Specification Required (Expert: Unassigned)
Kerberos V GSS-API Mechanism Parameters	
Kerberos V GSS-API Mechanism Extension Types	RFC 6542 0x00000000 - 0x000003FF: IETF Review. 0x00000400 - 0xFFFF3FFF: Specification Required. (Expert: Unassigned)
Kerberos V GSS-API Token Type Identifiers	RFC 4121 , RFC 7055 Expert Review (Expert: Sam Hartman)
Keying and Authentication for Routing Protocols (KARP) Parameters	
Cryptographic Protocol ID	RFC 7166 Standards Action
KeyNote Parameters	
KeyNote app_domain Identifiers	RFC 2704 First Come First Served
KeyNote Public Key Format Identifiers	RFC 2704 Specification Required (Expert: Unassigned)

[KeyNote Signature Algorithm Identifiers](#)[RFC 2704](#)

Specification Required (Expert: Unassigned)

KeyTable[KeyTable AlgIDs](#)[RFC 7210](#)

First Come First Served

[KeyTable KDFs](#)[RFC 7210](#)

First Come First Served

[KeyTable Protocols](#)[RFC 7210](#)

Specification Required (Expert: Unassigned)

L

Label Distribution Protocol (LDP) Parameters[Experiment ID Name Space](#)[RFC 5036](#)0x00000000-0xffffffff: First Come First Served.
0xf0000000-0xffffffff: Experiment Ids - Reserved for Use.[Forwarding Equivalence Class \(FEC\) Type Name Space](#)[RFC 5036](#), [RFC 7358](#)0-127: IETF Review.
128-191: First Come First Served.[LDP MP Opaque Value Element basic type](#)[RFC 6388](#)

Standards Action

[LDP MP Opaque Value Element extended type](#)[RFC 6388](#)0-32767: Standards Action.
32768-65535: First Come First Served.[LDP MP Status Value Element type](#)[RFC 6388](#)

Standards Action

[LDP Targeted Application Identifier](#)[RFC 8223](#)0x0001-0x1FFF: IETF Review.
0x2000-0xF7FF: First Come First Served.[MAC Flush Flags](#)[RFC 7361](#)

Standards Action

[Message Type Name Space](#)[RFC 5036](#)0x0001-0x00FF: IETF Review.
0x0100-0x01FF: IETF Review.
0x0200-0x02FF: IETF Review.
0x0300-0x03FF: IETF Review.
0x0400-0x04FF: IETF Review.
0x0500-0x05FF: IETF Review.
0x0600-0x3DFF: IETF Review.
0x3E00-0x3EFF: LDP Vendor-Private Extensions.
0x3F00-0x3FFF: LDP Experimental Extensions.[Status Code Name Space](#)[RFC 5036](#)0x00000000-0xFFFFFFFF: IETF Review.
0x20000000-0x3FFFFFFF: First Come First Served.
0x3F000000-0x3FFFFFFF: Private Use.[TLV Type Name Space](#)[RFC 5036](#)0x0001-0x07FF: IETF Review.
0x0800-0x08FF (CR-LDP): IETF Review.
0x0900-0x3DFF: IETF Review.
0x3E00-0x3EFF: LDP Vendor-Private Extensions.
0x3F00-0x3FFF: LDP Experimental Extensions.**Label Generation Ruleset (LGR) Dispositions**[Private Dispositions](#)[RFC 7940](#)

First Come First Served

[Standard Dispositions](#)[RFC 7940](#)

Specification Required (Expert: Unassigned)

Language Tags[Language Subtag Registration Form Archive](#)[RFC 5646](#)

See the Language Subtag Registry.

Language Subtag Registry	RFC 5645 , RFC 5646 Expert Review (Expert: Michael Everson (primary), Do (secondary))
Language Tag Extensions	RFC 5646 IETF Review or IESG Approval
Language Tag Registration Form Archive (OBSOLETE)	RFC 3066 , RFC 4646 Registry closed
Language Tags (OBSOLETE)	RFC 3066 , RFC 4646 Registry closed

Layer Two Tunneling Protocol "L2TP"

ATM Alarm Status AVP (Attribute Type 88) Values	RFC 4454 Expert Review (Expert: Carlos Pignataro (primary), Igr Goyret (secondary))
ATM-Specific Sublayer bits	RFC 4454 IETF Review
Bearer Field definition	RFC 2661 Standards Action
Circuit Status Bits	RFC 3931 IETF Review
Control Message Attribute Value Pairs	RFC 3438 Expert Review (Expert: Carlos Pignataro (primary), Igr Goyret (secondary))
Data Sequencing Level	RFC 3931 Expert Review (Expert: Carlos Pignataro (primary), Igr Goyret (secondary))
Default L2-Specific Sublayer bits	RFC 3931
Framing Field definition	RFC 2661 Standards Action
L2-Specific Sublayer Type	RFC 3931 Expert Review (Expert: Carlos Pignataro (primary), Igr Goyret (secondary))
L2TPv3 Pseudowire Types	RFC 3931 0-32767: Expert Review. 32768-65535: First Come First Served. (Expert: Carlos Pignataro (primary), Ignacio Goyret (secondary))
Leading Bits of the L2TP AVP Header	RFC 2661 , RFC 3931 Standards Action
Leading Bits of the L2TP Message Header	RFC 2661 , RFC 3931 Standards Action
Message Type AVP (Attribute Type 0) Values	RFC 3438 Expert Review (Expert: Carlos Pignataro (primary), Igr Goyret (secondary))
PPP Disconnect Cause Code (Attribute Type 46) Values	RFC 3145
Proxy Authen Type AVP (Attribute Type 29) Values	RFC 2661 First Come First Served
Result Code AVP (Attribute Type 1) Values	RFC 3438 Expert Review (Expert: Carlos Pignataro (primary), Igr Goyret (secondary))
Service Category AVP (Attribute Type 42) Flag Field	RFC 3301 Specification Required (Expert: Carlos Pignataro (primary), Ignacio Goyret (secondary))
VCCV Capability AVP (Attribute Type 96) Values	RFC 5085 IETF Review

Layered Coding Transport (LCT) Header Extension Types

LCT Header Extension Types**RFC 5651**

0-63: IETF Review.
 64-127: Specification Required.
 128-191: IETF Review.
 192-255: Specification Required.
 (Expert: Vincent Roca)

Level of Assurance (LoA) Profiles**Level of Assurance Profiles****RFC 6711**

Expert Review (Expert: John Bradley, Joni Brennan, Le Johansson)

Licklider Transmission Protocol (LTP) Parameters**LTP Cancel Segment Reason Codes****RFC 7116**

Specification Required (Expert: Unassigned)

LTP Ciphersuites**RFC 5327**

Specification Required (Expert: Unassigned)

LTP Client Service Identifiers**RFC 7116**

Specification Required (Expert: Unassigned)

LTP Engine Numbers**RFC 7116**

1-16383: Expert Review.
 268435456-4398046511103: First Come First Served f
 requests of up to 16384 values. Larger requests requ
 Expert Review..
 (Expert: Unassigned)

LTP Extension Tags**RFC 5326**

Specification Required (Expert: Unassigned)

Lightweight Directory Access Protocol (LDAP) - pcimSchema Descriptors**pcimSchema LDAP Descriptors****RFC 3703**

TBD

Lightweight Directory Access Protocol (LDAP) Parameters**Attribute Description Options****RFC 4520**

x- Private Use (can not be registered) e- Reserved for
 Experiments, First Come First Served All others: Stan
 Action or Expert Review with Specification (Expert: Rc
 Sonneveld, Andrew Findlay)

Bind Authentication Method**RFC 4520**

0-1023 Standards Action (can not start with e- or x-) 1
 4095 Expert Review with Specification Required (can
 with e- or x-) 4096-16383 First Come First Served (Sha
 with e-) 16384 and higher Private Use (Shall start with
 (Expert: Rolf Sonneveld, Andrew Findlay)

**Internet Directory Numbers
(iso.org.dod.internet.directory [1.3.6.1.1.])****RFC 4520, RFC 2578**

Specification Required (Expert: Rolf Sonneveld, Andre
 Findlay)

LDAP authzid prefixes**RFC 4520**

x- Private Use e- Reserved for Experiments, First Com
 Served All others, Standards Action or Expert Review
 Specification Required (Expert: Rolf Sonneveld, Andre
 Findlay)

LDAP Filter Choices**RFC 4520**

Standards Action

LDAP ModifyRequest Operations**RFC 4520**

0-1023 Standards Action (can not start with e- or x-) 1
 4095 Expert Review with Specification Required (can
 with e- or x-) 4096-16383 First Come First Served (Sha
 with e-) 16384 and higher Private Use (Shall start with
 (Expert: Rolf Sonneveld, Andrew Findlay)

LDAP Search Scopes**RFC 4520**

0-1023 Standards Action (can not start with e- or x-) 1
 4095 Expert Review with Specification Required (can
 with e- or x-) 4096-16383 First Come First Served (Sha

	with e-) 16384 and higher Private Use (Shall start with (Expert: Rolf Sonneveld, Andrew Findlay)
LDAP Syntaxes	RFC 4520 First Come First Served
LDAPMessage types	RFC 4520 Standards Action
Object Identifier Descriptors	RFC 4520 x- Private Use (can not be registered) e- Reserved for Experiments, First Come First Served All others: Expert Review (Expert: Rolf Sonneveld, Andrew Findlay)
Protocol Mechanisms	RFC 4520 First Come First Served
resultCode values	RFC 4520 0-1023 Standards Action (can not start with e- or x-) 14095 Expert Review with Specification Required (can not start with e- or x-) 4096-16383 First Come First Served (Shall start with e-) 16384 and higher Private Use (Shall start with (Expert: Rolf Sonneveld, Andrew Findlay)
Link Management Protocol (LMP) Parameters	
LMP Behavior Configuration Flags	RFC 6898 Standards Action
LMP Message Type Name Space	RFC 4204 0-127: Standards Action. 128-247: Expert Review. (Expert: Dimitri Papadimitriou)
LMP Object Class name space and Class type (C-Type)	RFC 4204 0-127: Standards Action. 128-247: Expert Review. (Expert: Dimitri Papadimitriou)
Link Relations	
Link Relation Types	RFC 8288 Specification Required (Expert: Mark Nottingham, Julian Reschke, Jan Algermissen)
Link State Routing TE Capabilities	
TE Node Capabilities	RFC 5073 IETF Review
Locally-Served DNS Zones	
IPv4 Locally-Served DNS Zone Registry	RFC 6303 IETF Review
IPv6 Locally-Served DNS Zone Registry	RFC 6303 IETF Review
service.arpa Subdomain	RFC 9665 Standards Action or IESG Approval
Transport-Independent Locally-Served DNS Zone Registry	RFC 8375 IETF Review
Location-to-Service Translation (LoST) Location Profiles	
LoST Location Profiles	RFC 5222, RFC 9036 Specification Required (Expert: Henning Schulzrinne)
Locator/ID Separation Protocol (LISP) Parameters	
LISP ACT Values	RFC 9301 IETF Review or IESG Approval
LISP Address Type Codes (CLOSED)	RFC 6830, RFC 9301
LISP Algorithm ID Numbers	RFC 9301 First Come First Served
LISP Canonical Address Format (LCAF) Types	RFC 8060 Specification Required (Expert: Luigi Iannone, Albert

	Cabellos)
LISP Control Plane Header Bits: EID-Record	RFC 9301 Specification Required (Expert: Albert Cabellos, Dino Farinacci)
LISP Control Plane Header Bits: Encapsulated Control Message (ECM)	RFC 9301 Specification Required (Expert: Albert Cabellos, Dino Farinacci)
LISP Control Plane Header Bits: Map-Register	RFC 9301 Specification Required (Expert: Albert Cabellos, Dino Farinacci)
LISP Control Plane Header Bits: Map-Reply	RFC 9301 Specification Required (Expert: Albert Cabellos, Dino Farinacci)
LISP Control Plane Header Bits: Map-Request	RFC 9301 Specification Required (Expert: Albert Cabellos, Dino Farinacci)
LISP Control Plane Header Bits: Map-Request-Record	RFC 9437 Specification Required (Expert: Albert Cabellos, Dino Farinacci)
LISP Control Plane Header Bits: RLOC-Record	RFC 9301 Specification Required (Expert: Albert Cabellos, Dino Farinacci)
LISP Crypto Cipher Suite	RFC 8061 First Come First Served
LISP ECM Authentication Data Types	RFC 9303 Specification Required (Expert: Damien Saucez, Luigi Iannone)
LISP Map-Reply Authentication Data Types	RFC 9303 Specification Required (Expert: Damien Saucez, Luigi Iannone)
LISP Packet Types	RFC 9304, RFC 9301 Standards Action
LISP Shared Extension Message Type Subtypes	RFC 9304 0-1023: Standards Action. 1024-4095: First Come First Served.
LISP-GPE Next Protocol	RFC 9305 Specification Required (Expert: Darrel Lewis, Luigi Iar
LISP-SEC Authentication Data Key Derivation Function IDs	RFC 9303 Specification Required (Expert: Damien Saucez, Luigi Iannone)
LISP-SEC Authentication Data Key Wrap IDs	RFC 9303 Specification Required (Expert: Damien Saucez, Luigi Iannone)
LISP-SEC Preferred Authentication Data HMAC IDs	RFC 9303 Specification Required (Expert: Damien Saucez, Luigi Iannone)

M

Machine Names

Machine Names

Not defined

"Magic Numbers" for ISAKMP Protocol

IPSEC AH Transform Identifiers

RFC 2407, RFC 9395
Registry closed

IPSEC ESP Transform Identifiers

RFC 2407, RFC 9395
Registry closed

IPSEC Identification Type

RFC 2407, RFC 9395
Registry closed

IPSEC IPCOMP Transform Identifiers	RFC 2407, RFC 9395 Registry closed
IPSEC ISAKMP Transform Identifiers	RFC 2407, RFC 9395 Registry closed
IPSEC Labeled Domain Identifiers	RFC 2407, RFC 9395 Registry closed
IPSEC Notify Message Types	RFC 2407, RFC 9395 Registry closed
IPSEC Security Association Attributes	RFC 2407, RFC 9395 Registry closed
IPSEC Security Protocol Identifiers	RFC 2407, RFC 9395 Registry closed
IPSEC Situation Definition	RFC 2407, RFC 9395 Registry closed

Mail Parameters

Address Literal Tags	draft-ietf-emailcore-rfc5321bis-43
Encoding Header Field Keywords	RFC 1505 Specification Required (Expert: Unassigned)
Mail Header Confidentiality Policies	RFC 9788 Specification Required or IETF Review (see Note) (Exp Unassigned)
Mail Transmission Types	RFC 821, RFC 822, RFC 5321 Standards Action or IESG-Approved Experimental RFC
Multicast Email SMTP Extensions	RFC 8494 Specification Required (Expert: Alexey Melnikov (prim RFC Independent Submissions Editor (secondary)))
Registered-states	RFC 6729 First Come First Served
SMTP PRIORITY extension Priority Assignment Policy	RFC 6710 Specification Required (Expert: Unassigned)
SMTP Server Limits	RFC 9422 Specification Required (Expert: John Klensin, Murray Kucherawy (backup))
SMTP Service Extensions	RFC 5321 Standards Action or IESG-Approved Experimental RFC

Manufacturer Usage Description (MUD)

MUD Extensions	RFC 8520 Standards Action
MUD Well-Known Uniform Resource Name (URN)	RFC 8520 Expert Review (Expert: Eliot Lear, Dan Romascanu)

Matroska

Matroska AES Cipher Modes	RFC 9559 First Come First Served
Matroska Alpha Modes	RFC 9559 First Come First Served
Matroska Chapter Codec IDs	RFC 9559 Specification Required (Expert: Dave Rice, Steve Lhon)
Matroska Color Ranges	RFC 9559 Specification Required (Expert: Dave Rice, Steve Lhon)
Matroska Compression Algorithms	RFC 9559 Specification Required (Expert: Dave Rice, Steve Lhon)
Matroska Content Encoding Scopes	RFC 9559 Specification Required (Expert: Dave Rice, Steve Lhon)
Matroska Content Encoding Types	RFC 9559 Specification Required (Expert: Dave Rice, Steve Lhon)

Matroska Display Units	RFC 9559 Specification Required (Expert: Dave Rice, Steve Lhon)
Matroska Element IDs	RFC 9559 0x80-0xFE: RFC Required. 0x407F-0x7FFE: Specification Required. 0x203FFF-0x3FFFFE: First Come First Served. 0x101FFFFF-0x1FFFFFFE: First Come First Served. (Expert: Dave Rice, Steve Lhomme)
Matroska Encryption Algorithms	RFC 9559 First Come First Served
Matroska Horizontal Chroma Sittings	RFC 9559 First Come First Served
Matroska Projection Types	RFC 9559 First Come First Served
Matroska Stereo Modes	RFC 9559 Specification Required (Expert: Dave Rice, Steve Lhon)
Matroska Tags Target Types	RFC 9559 Specification Required (Expert: Dave Rice, Steve Lhon)
Matroska Track Plane Types	RFC 9559 First Come First Served
Matroska Track Types	RFC 9559 Specification Required (Expert: Dave Rice, Steve Lhon)
Matroska Vertical Chroma Sittings	RFC 9559 First Come First Served
Maximally Redundant Tree (MRT) Parameters	
MRT Profile Identifier Registry	RFC 7812 Standards Action
Media Control Channel Framework Parameters	
Control Packages	RFC 6230 RFC Required
Header Fields	RFC 6230 RFC Required
IVR Prompt Variable Type for Control Packages	RFC 6231 RFC Required
MEDIACtrl Interactive Voice Response Control Package Status Codes	RFC 6623 Standards Action
Method Names	RFC 6230 RFC Required
Mixer Control Package Status Code Registration	RFC 6505 Standards Action
Status Codes	RFC 6230 RFC Required
Media Feature Tags - iso.org.dod.internet.features (1.3.6.1.8)	
iso.org.dod.internet.features.global-tree (1.3.6.1.8.2)	RFC 2506 Expert Review (Expert: Paul Kyzivat)
iso.org.dod.internet.features.ietf-tree (1.3.6.1.8.1)	RFC 2506, RFC 2534 IETF Review
iso.org.dod.internet.features.sip-tree (1.3.6.1.8.4)	RFC 3840 IETF Review
iso.org.dod.internet.features.uri-tree (1.3.6.1.8.3)	RFC 2506 Unregistered (formed from uri)
Media Gateway Control Protocol (MGCP)	
List of Extension Digit Map Letters	RFC 3660 Expert Review (Expert: Brian Rosen)

LocalConnectionOptions Sub-registry	RFC 3435 Expert Review (Expert: Brian Rosen)
MGCP Package Sub-Registry	RFC 3435 Expert Review (Expert: Brian Rosen)

Media Independent Handover (MIH)

MIH Table of Mappings From Service Field Values to Transport Protocols	RFC 5679 Standards Action
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Media Resource Control Protocol Version 2 (MRCPv2) Parameters

Grammar Reference List Parameters	RFC 6787 Specification Required (Expert: Unassigned)
MRCPv2 Header Fields	RFC 6787 Standards Action
MRCPv2 Methods and Events	RFC 6787 Standards Action
MRCPv2 Resource Types	RFC 6787 Standards Action
MRCPv2 Status Codes	RFC 6787 Specification Required (Expert: Unassigned)
MRCPv2 Vendor-Specific Parameters	RFC 6787 First Come First Served

Megaco/H.248 Packages

Error Codes	RFC 5125 , RFC 5615 Expert Review (Expert: Unassigned)
Private packages (0x8000 to 0xffff)	RFC 5125 , RFC 5615 Expert Review (Expert: Unassigned)
Profile Names	RFC 5125 , RFC 5615 Expert Review (Expert: Unassigned)
Public Packages (0x0001-0x7fff)	RFC 5125 Expert Review or IETF Review (Expert: Unassigned)
ServiceChange Reasons	RFC 5125 , RFC 5615 Expert Review (Expert: Unassigned)

Message Disposition Notification (MDN) Parameters

MDN-Disposition-modifier-names	RFC 8098 Specification Required (Expert: Tony Hansen)
MDN-Disposition-notification-option-names	RFC 8098 Specification Required (Expert: Unassigned)
MDN-Extension-field-names	RFC 8098 Specification Required (Expert: Unassigned)

Message Headers

Content-Translation-Type Header Field Values	RFC 8255 Specification Required (Expert: Nik Tomkinson)
Permanent Message Header Field Names	RFC 3864 , draft-ietf-emailcore-rfc5322bis-12 Expert Review (Expert: Mark Baker (primary), Murray Kucherawy (backup))
Provisional Message Header Field Names	RFC 3864 , draft-ietf-emailcore-rfc5322bis-12 Expert Review (Expert: Mark Baker (primary), Murray Kucherawy (backup))

Message Session Relay Protocol (MSRP) Parameters

Header Fields	RFC 4975 RFC Required
Methods	RFC 4975 RFC Required
Status Codes	RFC 4975 RFC Required

Message Tracking Query Protocol (MTQP) Options Registry[MTQP Options](#)[RFC 3887](#)

Options whose names do not begin with "vnd.": Stan Action or IESG-approved experimental RFC.
Options with "vnd.": First Come First Served.

Messaging Abuse Reporting Format (MARF) Parameters[Feedback Report Header Fields](#)[RFC 5965](#)

Specification Required (Expert: Scott Kitterman, Murr Kucherawy)

[Feedback Report Type Values](#)[RFC 5965](#)

Specification Required (Expert: Scott Kitterman, Murr Kucherawy)

Messaging Layer Security (MLS)[MLS Cipher Suites](#)[RFC 9420](#)

Specification Required (Expert: Sean Turner, Raphael Richard Barnes)

[MLS Credential Types](#)[RFC 9420](#)

Specification Required (Expert: Sean Turner, Raphael Richard Barnes)

[MLS Exporter Labels](#)[RFC 9420](#)

Specification Required (Expert: Sean Turner, Raphael Richard Barnes)

[MLS Extension Types](#)[RFC 9420](#)

Specification Required (Expert: Sean Turner, Raphael Richard Barnes)

[MLS Proposal Types](#)[RFC 9420](#)

Specification Required (Expert: Sean Turner, Raphael Richard Barnes)

[MLS Public Key Encryption Labels](#)[RFC 9420](#)

Specification Required (Expert: Sean Turner, Raphael Richard Barnes)

[MLS Signature Labels](#)[RFC 9420](#)

Specification Required (Expert: Sean Turner, Raphael Richard Barnes)

[MLS Wire Formats](#)[RFC 9420](#)

Specification Required (Expert: Sean Turner, Raphael Richard Barnes)

Milnet Parameters - Registry closed[Milnet Link Numbers](#)

Registry closed

[Milnet Logical Addresses](#)

Registry closed

[Milnet X.25 Address Mappings](#)

Registry closed

Mobile Ad hoc NETWORK (MANET) Parameters[Address Block TLV Types](#)[RFC 5444](#), [RFC 7631](#), [RFC 8245](#)

0-127: Expert Review.

128-223: Expert Review.

224-255: Reserved for Experimental Use.

(Expert: Justin Dean, Christopher Dearlove (backup))

[Cryptographic Functions](#)[RFC 7182](#)

Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))

[Hash Functions](#)[RFC 7182](#)

Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))

HELLO Message-Type-specific Address Block TLV Types	RFC 6130 0-127: Reserved. 128-223: Expert Review. 224-255: Reserved. (Expert: Justin Dean, Christopher Dearlove (backup))
HELLO Message-Type-specific Message TLV Types	RFC 6130 0-127: Reserved. 128-223: Expert Review. 224-255: Reserved. (Expert: Justin Dean, Christopher Dearlove (backup))
ICV Address Block TLV Type Extensions	RFC 7182 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
ICV Message TLV Type Extensions	RFC 7182 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
ICV Packet TLV Type Extensions	RFC 7182 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
LINK_METRIC Address Block TLV Type Extensions	RFC 7181 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
LINK_STATUS TLV Values	RFC 7188 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
LOCAL_IF TLV Values	RFC 7188 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
Message TLV Types	RFC 5444 , RFC 7631 , RFC 8245 0-127: Expert Review. 128-223: Expert Review. 224-255: Reserved for Experimental Use. (Expert: Justin Dean, Christopher Dearlove (backup))
Message Types	RFC 5444 , RFC 8245 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
MPR TLV BIT Values	RFC 7188 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
NBR_ADDR_TYPE Address Block TLV Bit Values	RFC 7188 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
OTHER_NEIGHB TLV Values	RFC 7188 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
Packet TLV Types	RFC 5444 , RFC 8245 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
SMF Relay Algorithm IDs	RFC 6621 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
SMF_NBR_TYPE Address Block TLV Type Extensions	RFC 6621 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
SMF_TYPE Message TLV Type Extensions	RFC 6621 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
TC Message-Type-specific Address Block TLV Types	RFC 7181 0-127: Reserved. 128-223: Expert Review.

	224-255: Reserved. (Expert: Justin Dean, Christopher Dearlove (backup))
TC Message-Type-specific Message TLV Types	RFC 7181 0-127: Reserved. 128-223: Expert Review. 224-255: Reserved. (Expert: Justin Dean, Christopher Dearlove (backup))
TIMESTAMP Address Block TLV Type Extensions	RFC 7182 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
TIMESTAMP Message TLV Type Extensions	RFC 7182 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
TIMESTAMP Packet TLV Type Extensions	RFC 7182 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
Type 0 Address Block TLV Type Extensions	RFC 5497 , RFC 7631 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
Type 0 Message TLV Type Extensions	RFC 5497 , RFC 7631 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
Type 1 Address Block TLV Type Extensions	RFC 5497 , RFC 7631 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
Type 1 Message TLV Type Extensions	RFC 5497 , RFC 7631 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
Type 10 Address Block TLV Type Extensions	RFC 7181 , RFC 7631 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
Type 2 Address Block TLV Type Extensions	RFC 6130 , RFC 7631 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
Type 3 Address Block TLV Type Extensions	RFC 6130 , RFC 7631 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
Type 4 Address Block TLV Type Extensions	RFC 6130 , RFC 7631 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
Type 7 Message TLV Type Extensions	RFC 7181 , RFC 7631 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
Type 8 Address Block TLV Type Extensions	RFC 7181 , RFC 7631 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
Type 8 Message TLV Type Extensions	RFC 7181 , RFC 7631 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
Type 9 Address Block TLV Type Extensions	RFC 7181 , RFC 7631 Expert Review (Expert: Justin Dean, Christopher Dearlove (backup))
Mobile IPv4 Numbers	
Access Technology Types	RFC 5563 Expert Review (Expert: Unassigned)
Code Values for General Notification Messages	RFC 6098 0: Expert Review. 1-63: Expert Review. 64-69: Expert Review.

	70-127: Expert Review. 128-133: Expert Review. 134-191: Expert Review. 192-197: Expert Review. 198-255: Expert Review. (Expert: Unassigned)
Code Values for Mobile IP Handoff Reply Messages (Value 17)	RFC 4881 IETF Review
Code Values for Mobile IP Registration Reply Messages	RFC 5944, RFC 6521 (Expert: Unassigned)
Dual Stack (DSMIPv4) Extension subtypes (Value 152)	RFC 5454 Expert Review (Expert: Unassigned)
Extension Subtypes	
Extensions to Mobile IP Registration Messages	RFC 5944, RFC 6098 Specification Required (Expert: Unassigned)
Generalized Link Layer Address Registration Extension Subtypes and Generalized Link Layer Address Advertisement Extension Subtypes	RFC 4881 IETF Review
IPv6 Prefix Reply Extension Codes	RFC 5454 Expert Review (Expert: Unassigned)
Message String Extension (Value 145)	RFC 4917 Expert Review (Expert: Unassigned)
Mobile IP Extensions for ICMP Router Discovery messages	RFC 5944 Specification Required (Expert: Unassigned)
Mobile IP Message Types	RFC 5944 Specification Required (Expert: Unassigned)
Mobile Network Acknowledgement Extension	RFC 5177 Standards Action or IESG Approval
Mobile Router Route Optimization Capability Extension (Value 153)	RFC 6521 RFC Required
PMIPv4 Device ID Types	RFC 5563 Expert Review (Expert: Unassigned)
PMIPv4 Non-skippable Extension (Value 47)	RFC 5563 Expert Review (Expert: Unassigned)
PMIPv4 Per-Node Authentication Method Types	RFC 5563 Expert Review (Expert: Unassigned)
PMIPv4 Skippable Extension (Value 147)	RFC 5563 Expert Review (Expert: Unassigned)
PMIPv4 Subscriber ID Types	RFC 5563 Expert Review (Expert: Unassigned)
Replay Method Identifier	RFC 3957 Expert Review (Expert: Unassigned)
Route Optimization Data Extension (Value 50)	RFC 6521 RFC Required
Route Optimization Extension (Value 49)	RFC 6521 RFC Required
Security Parameter Index (SPI) Values for the Mobile IP Reserved SPIs	RFC 4721 Must be specified and approved by the MIP4 working
Mobile IPv6	
Access Network Information (ANI) Sub-Option Type Values	RFC 6757 Expert Review (Expert: Jouni Korhonen, Sri Gundavelli)
Access Technology Type Option Type Values	RFC 5213 Expert Review (Expert: Sri Gundavelli, Jouni Korhoner)
Binding Acknowledgment Flags	RFC 5213 Standards Action or IESG Approval

Binding Revocation Acknowledgement Status Codes	RFC 5846 Standards Action or IESG Approval
Binding Revocation Type	RFC 5846 Standards Action or IESG Approval
Binding Update Flags	RFC 5213 Standards Action or IESG Approval
DSMIP6-TLS Packet Types Registry	RFC 6618 RFC Required
Dual Stack MIPv6 (DSMIPv6) IPv4 Home Address Option Status Codes	RFC 5555 IETF Review
Enumerating Algorithms	RFC 4285 IETF Review
Flow Binding Acknowledgement Status Codes	RFC 7109 RFC Required
Flow Binding Action Values	RFC 7109 RFC Required
Flow Binding Indication Triggers	RFC 7109 RFC Required
Flow Binding Type	RFC 7109 RFC Required
Flow Identification Mobility Option Status Codes	RFC 6089 Standards Action or IESG Approval
Flow Identification Sub-Options	RFC 6089 Standards Action or IESG Approval
Handoff Indicator Option Type Values	RFC 5213 Expert Review (Expert: Sri Gundavelli, Jouni Korhoner)
Handover Acknowledge Flags	RFC 5949 Standards Action or IESG Approval
Handover Acknowledge Status Codes	RFC 5949 Standards Action or IESG Approval
Handover Initiate Flags	RFC 5949 Standards Action or IESG Approval
Handover Initiate Status Codes	RFC 5949 Standards Action or IESG Approval
IPv4 DHCP Support Mode Flags	RFC 5844 Expert Review (Expert: Sri Gundavelli, Jouni Korhoner)
IPv4 Home Address Reply Status Codes	RFC 5844 Expert Review (Expert: Sri Gundavelli, Jouni Korhoner)
LMA-Controlled MAG Parameters Sub-Option Type Values	RFC 8127 Expert Review (Expert: Dhananjay Patki, Lyle Bertz)
Mobile Node Group Identifier Type Registry	RFC 6602 Expert Review (Expert: Unassigned)
Mobile Node Identifier Option Subtypes	RFC 4283 Standards Action
Mobility Header Types - for the MH Type field in the Mobility Header	RFC 6275 Standards Action or IESG Approval
Mobility Options	RFC 6275 Standards Action or IESG Approval
Operator-Identifier Type Registry	RFC 6757 Expert Review (Expert: Unassigned)
Pseudo Home Address Acknowledgement Status Codes	RFC 5726 RFC Required
Quality-of-Service Attribute Registry	RFC 7222 Specification Required (Expert: Jouni Korhonen, Sri Gundavelli)

Revocation Trigger Values	RFC 5846 Standards Action or IESG Approval
Status Codes	RFC 6275 , RFC 5213 Standards Action or IESG Approval
Status Codes (DNS Update Mobility Option)	RFC 5026 Standards Action or IESG Approval
Subtype Field of the MN-HA and MN-AAA Authentication Mobility Options	RFC 4285 IETF Review
Traffic Selector Format	RFC 6089 Standards Action or IESG Approval
Update Notification Acknowledgement Status Registry	RFC 7077 Specification Required (Expert: Sri Gundavelli, Marco)
Update Notification Reasons Registry	RFC 7077 Specification Required (Expert: Sri Gundavelli, Marco)
Multi-threaded Routing Toolkit (MRT)	
Subtype Codes	RFC 6396 New Subtype Code definitions must reference an existing Type Code to which the Subtype belongs. Subtype assignments follow the assignment rules for the Type to which they belong.
Type Codes	RFC 6396 65-511: IETF Review. 512-2047: Specification Required. 2048-64511: First Come First Served. (Expert: Unassigned)
Multicast Acquisition	
Multicast Acquisition Method Registry	RFC 6332 Specification Required (Expert: Unassigned)
Multicast Acquisition Report Block TLV Space Registry	RFC 6332 Specification Required (Expert: Unassigned)
Multicast Acquisition Status Code Space Registry	RFC 6332 Specification Required (Expert: Unassigned)
Multicast Address Dynamic Client Allocation Protocol (MADCAP) Parameters	
MADCAP Error Codes	RFC 2730 IETF Review
MADCAP Feature Codes	RFC 2730 IETF Review
MADCAP Lease Identifier Types	RFC 2730 IETF Review
MADCAP Message Types	RFC 2730 IETF Review
MADCAP Options	RFC 2730 IETF Review
Multicast Address-Set Claim (MASC) Parameters	
MASC Message Types	RFC 2909 IETF Review
MASC NOTIFICATION Message Error Codes and Subcodes	RFC 2909 IETF Review
MASC OPEN Message Optional Parameter Types	RFC 2909 IETF Review
MASC UPDATE Message Attribute Types	RFC 2909 IETF Review
MASC UPDATE Message Optional Parameter Types (128-255)	RFC 2909 IETF Review

Notification Error Subcodes	RFC 2909 IETF Review
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Multicast Ping Protocol Parameters

Multicast Ping Protocol Message Types	RFC 6450 Specification Required (Expert: Unassigned)
Multicast Ping Protocol Option Types	RFC 6450 Specification Required (Expert: Unassigned)

Multicast Source Discovery Protocol (MSDP) TLV Values Registry

MSDP TLV Values	RFC 3618 1-200: Standards Action or IESG Approval. 201-255: Experimental Use.
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Multimedia Internet KEYing (MIKEY) Payload Name Spaces

Cert Hash Payload Field Names	RFC 3830, RFC 6309 IETF Review or IESG Approval
Common Header Payload Field Names	RFC 3830, RFC 6309 IETF Review or IESG Approval
DH Data Payload Field Names	RFC 3830, RFC 6309 IETF Review or IESG Approval
ECC Curve	RFC 6267 Specification Required (Expert: Daniel Migault)
Envelope Data Payload Field Names	RFC 3830, RFC 6309 IETF Review or IESG Approval
Error Payload Name Spaces	RFC 3830, RFC 6309 IETF Review or IESG Approval
General Extensions Payload Field Names	RFC 3830, RFC 6309 IETF Review or IESG Approval
ID Payload and Certificate Field Names	RFC 3830, RFC 6309 IETF Review or IESG Approval
ID Role	RFC 6043 Specification Required (Expert: Daniel Migault)
ID Scheme	RFC 6509 Specification Required (Expert: Daniel Migault)
Key Data Payload Field Names	RFC 3830, RFC 6309 IETF Review or IESG Approval
Key Data Transport Payload Field Names	RFC 3830, RFC 6309 IETF Review or IESG Approval
MIKEY Security Protocol Parameters	RFC 3830, RFC 6309 IETF Review or IESG Approval
RAND Role	RFC 6043 Specification Required (Expert: Daniel Migault)
SAKKE params	RFC 6509 Specification Required (Expert: Daniel Migault)
Security Policy Payload Field Names	RFC 3830, RFC 6309 IETF Review or IESG Approval
Signature Payload Field Names	RFC 3830, RFC 6309 IETF Review or IESG Approval
SK sub-payload	RFC 6267 Specification Required (Expert: Daniel Migault)
Ticket Type	RFC 6043 Specification Required (Expert: Daniel Migault)
Timestamp Payload Field Names	RFC 3830, RFC 6309 IETF Review or IESG Approval
TS Role	RFC 6043 Specification Required (Expert: Daniel Migault)

Multiplexed Application Substrate over QUIC Encryption (MASQUE)

HTTP Capsule Types	RFC 9297 provisional: Expert Review. Date field update for provisional registrations: First C First Served. permanent, 0x00-0x3f: Standards Action or IESG App permanent, greater than 0x3f: Specification Required first unassigned codepoint: Standards Action. values 0x29 * N + 0x17 (for integer values of N): Rese (Expert: Lucas Pardue, David Schinazi)
HTTP Capsule Types	RFC 9297
MASQUE URI Suffixes	RFC 9484 Expert Review (Expert: Tommy Pauly, Magnus Wester)

Multiprotocol Label Switching Architecture (MPLS)

Adjacency Type in the IGP-Adjacency Segment ID	RFC 8287 0-250: Standards Action. 251-254: Experimental Use.
Base Special-Purpose MPLS Label Values	RFC 3032 , RFC 7274 , RFC 9017 Standards Action
CC/CV MEP-ID TLV Registry	RFC 6428 , RFC 7214 Standards Action
Downstream Detailed Mapping Address Type Registry	RFC 6426 , RFC 7555 , RFC 8029 Standards Action
DS Flags	RFC 8029 Standards Action
Extended Special-Purpose MPLS Label Values	RFC 7274 Standards Action
G-ACh Advertisement Protocol Application Registry	RFC 7212 , RFC 7214 IETF Review
G-ACh Advertisement Protocol: Ethernet Interface Parameters	RFC 7213 , RFC 7214 IETF Review or IESG Approval
G-ACh Advertisement Protocol: GAP TLV Objects (Application ID 0)	RFC 7212 , RFC 7214 IETF Review
Global Flags	RFC 6425 Standards Action
Information Field and Protocol Identifier in the Q.2941 Generic Identifier	RFC 3033 0x10-0xFD: IETF Review.
Interface and Label Stack and Detailed Interface and Label Stack Address Types	RFC 8029 , RFC 8611 1-250: Standards Action. 251-254: Experimental Use.
Interface Index Flags	RFC 8611 Standards Action
Loss/Delay Measurement Control Code: Query Codes	RFC 6374 , RFC 7214 IETF Review
Loss/Delay Measurement Control Code: Response Codes	RFC 6374 , RFC 7214 IETF Review
LSR Capability Flags	RFC 8611 Standards Action
Measurement Timestamp Type	RFC 6374 , RFC 7214 IETF Review
Message Types	RFC 8029 , RFC 9041 0-191: Standards Action. 192-247: RFC Required. 248-251: Experimental Use. 252-255: Private Use.
MPLS Fault OAM Flag Registry	RFC 6427 , RFC 7214 Standards Action

MPLS Fault OAM Message Type Registry	RFC 6427 , RFC 7214 Standards Action
MPLS Fault OAM TLV Registry	RFC 6427 , RFC 7214 0-191: Standards Action. 192-247: Specification Required. (Expert: Unassigned)
MPLS Generalized Associated Channel (G-ACh) Types (including Pseudowire Associated Channel Types)	RFC 4385 , RFC 5586 , RFC 7026 , RFC 7214 IETF Review
MPLS Loss/Delay Measurement TLV Object	RFC 6374 , RFC 7214 IETF Review
MPLS Multi-Topology Identifiers	RFC 7307 , RFC 8320 Standards Action
MPLS OAM Function Flags	RFC 7759 Standards Action
MPLS PSC Capability Flag Registry	RFC 7271 Standards Action
MPLS PSC Request Registry	RFC 6378 , RFC 7214 Standards Action
MPLS PSC TLV Registry	RFC 6378 , RFC 7214 IETF Review
MPLS RPS Request Code Registry	RFC 8227 Specification Required (Expert: Weiqiang Cheng, Jie D
MPLS RTM TLV Registry	RFC 8169 0-127: IETF Review. 128-191: First Come First Served.
MPLS-TP DHC TLVs	RFC 8185 IETF Review
Multipath Types	RFC 8029 0-250: Standards Action. 251-254: Experimental Use. Standards Action
Next Hop Address Type Registry	RFC 7555 Standards Action
Pad Types	RFC 8029 1-250: Standards Action. 251-254: Experimental Use.
Protocol in Label Stack Sub-TLV of Downstream Detailed Mapping TLV	RFC 8287 0-250: Standards Action. 251-254: Experimental Use.
Protocol in the Segment ID Sub-TLV	RFC 8287 0-250: Standards Action. 251-254: Experimental Use.
Proxy Flags	RFC 7555 Standards Action
Q.2957 User-to-user Signaling for the Internet Protocol	RFC 3033 0x03-0xFD: IETF Review.
Reply Modes	RFC 8029 , RFC 9041 0-191: Standards Action. 192-247: RFC Required. 248-251: Experimental Use. 252-255: Private Use.
Reply Path Return Codes	RFC 7110 0x0000-0xFFFFB: Standards Action. 0xFFFFC-0xFFFFF: Experimental Use.
Return Codes	RFC 8029 , RFC 9041 0-191: Standards Action. 192-247: RFC Required.

	248-251: Experimental Use. 252-255: Private Use.
Return Path Sub-TLV Types	RFC 9779 1-175: IETF Review. 176-239: First Come First Served. 240-251: Experimental Use. 252-254: Private Use.
Segment ID Sub-TLV Flags	RFC 9716 Standards Action
TLVs	RFC 8029 , RFC 9041 0-16383: Standards Action. 16384-31739: RFC Required. 31740-31743: Experimental Use. 31744-32767: First Come First Served. 32768-49161: Standards Action. 49162-64507: RFC Required. 64508-64511: Experimental Use. 64512-65535: First Come First Served.

Multipurpose Internet Mail Extensions (MIME) and Media Types

Access Types	RFC 4289 RFC publication required
CMS Encapsulating Content Types	RFC 7193 Expert Review (Expert: Russ Housley, Sean Turner)
CMS Inner Content Types	RFC 7193 Expert Review (Expert: Russ Housley, Sean Turner)
Event Code Registry	RFC 4733 Specification Required (Expert: Unassigned)
Markdown Variants	RFC 7763 First Come First Served
Media Types	RFC 6838 , RFC 4855 Expert Review for Vendor and Personal Trees. For Sta Tree, see RFC 6838 , Section 3.1. (Expert: Alexey Melni Darrel Miller, Murray Kucherawy (backup))
MIME to X.400 Table	RFC 1494 N/A
MIME to X.400 Table - Extended Body Part	RFC 1494 N/A
Parameter Values for the smime-type Parameter	RFC 7114 Specification Required (Expert: Russ Housley, Sean Tu (secondary))
Provisional Standard Media Type Registry	RFC 6838 FCFS (Organization subject to IESG Approval)
Report Types	RFC 8460 Specification Required (Expert: Murray Kucherawy)
Standards-related organizations that have registered Media Types in the Standards Tree	RFC 6838 IESG Approval
Structured Syntax Suffixes	RFC 6838 Expert Review (Expert: Alexey Melnikov, Darrel Miller)
Sub-Parameter Registry for application/aif+cbor and application/aif+json	RFC 9237 Specification Required (Expert: Göran Selander, Cigde Sengul)
Sub-parameter Registry for application/mbx	RFC 4155 Specification Required (Expert: Unassigned)
Sub-Parameter Registry for audio/rtp-midi	RFC 6295 See sub-registries below
Sub-Parameter Registry for mode=rtp-midi of audio/mpeg4-generic	RFC 6295 See sub-registries below

Sub-Parameter Registry for video/raw	RFC 4175 See sub-registries below
Sub-Parameter Registry video/mpeg4-generic, audio/mpeg4-generic and application/mpeg4-generic	RFC 3640 Specification Required (Expert: Unassigned)
text/directory Parameters	RFC 2425 Two-week comment period, expert review (Expert: Rc Sonneveld, Andrew Findlay)
text/directory Profiles	RFC 2425 Two-week comment period, expert review (Expert: Rc Sonneveld, Andrew Findlay)
text/directory Types	RFC 2425 Two-week comment period, expert review (Expert: Rc Sonneveld, Andrew Findlay)
Top-Level Media Types	RFC 9694 Standards Action
X.400 to MIME Table - Basic Body Parts	RFC 1494 N/A N
Named Information	
Named Information Hash Algorithm Registry	RFC 6920 Expert Review (Expert: James Manger)
Named Information URI Parameter Definitions	RFC 6920 Expert Review (Expert: James Manger)
Namespaces for IP over IEEE 1394	
CSR Protocol Identifiers	RFC 2734 IANA allocation
MCAP (Multicast Channel Allocation Protocol) Parameters	RFC 2734, RFC 3146 Standards Action
Negative-ACKnowledgment (NACK) Oriented Reliable Multicast (NORM) Parameters	
NORM Header Extension Types	RFC 5740 Specification Required (Expert: Unassigned)
NORM Stream Control Codes	RFC 5740 Specification Required (Expert: Unassigned)
NORM_CMD Message Sub-types	RFC 5740 Specification Required (Expert: Unassigned)
Netnews Parameters	
Netnews Cancel-Lock Hash Algorithms	RFC 8315 First Come First Served
Network Configuration Protocol (NETCONF) Capability URNs	
Capability URNs	RFC 6241, RFC 7803 IETF Review
Network File System version 4 (NFSv4)	
NFSv4 $\{ietf.org:CPU_ARCH\}$ Values	RFC 8881 First Come First Served
NFSv4 $\{ietf.org:OS_TYPE\}$ Values	RFC 8881 First Come First Served
NFSv4 Device ID Notifications	RFC 8881 Standards Action with Expert Review (Expert: Unassigned)
NFSv4 Named Attribute Definitions	RFC 8881, RFC 7530 Specification Required for new registrations; updates fields other than the contact field require Expert Review IESG Approval (Expert: Unassigned)
NFSv4 Path Variables	RFC 8881 ietf.org domain: Standards Action with Expert Review

	non-ietf.org. domain: First Come First Served. (Expert: Unassigned)
NFSv4 Recallable Object Types	RFC 8881 Standards Action with Expert Review (Expert: Unassigned)
pNFS Layout Types	RFC 8881 Standards Action with Expert Review (Expert: Unassigned)
Network Layer Protocol Identifiers (NLPIDs) of Interest	
NLPIDs of Interest	RFC 6328 IETF Review
Network News Transfer Protocol (NNTP) Parameters	
NNTP Capability Labels	RFC 3977 Labels beginning with X are reserved for private use. others: Standards Track RFC or an IESG-approved experimental protocol.
NNTP Compression Algorithms	RFC 8054 First Come First Served
Network Service Header (NSH) Parameters	
Flow ID Context Types	RFC 9263 IETF Review
Forwarding Context Types	RFC 9263 IETF Review
NSH Base Header Bits	RFC 8300 Standards Action
NSH IETF-Assigned Optional Variable-Length Metadata Types	RFC 8300 Standards Action
NSH MD Class	RFC 8300 0x0000-0x01FF: IETF Review. 0x0200-0xFFFF5: Expert Review. (Expert: Carlos Pignataro, Joel Halpern, Jim Guichard)
NSH MD Types	RFC 8300 IETF Review
NSH Next Protocol	RFC 8300 Expert Review (Expert: Carlos Pignataro, Joel Halpern Guichard)
NSH Version	RFC 8300 Standards Action
Network Time Protocol (NTP) Parameters	
NTP Extension Field Types	RFC 5905 , RFC 5906 , RFC 9748 Specification Required (Expert: Kurt Kristof Teichel, M Lichvar, David Venhoek)
NTP Kiss-o'-Death Codes	RFC 5905 , RFC 9748 Specification Required (Expert: Kurt Kristof Teichel, M Lichvar, David Venhoek)
NTP Reference Identifier Codes	RFC 5905 , RFC 9748 Specification Required (Expert: Kurt Kristof Teichel, M Lichvar, David Venhoek)
Network Time Security (NTS)	
Network Time Security Error Codes	RFC 8915 0-1023: IETF Review. 1024-32767: Specification Required. 32768-65535: Private or Experimental Use. (Expert: Miroslav Lichvar, Daniel Franke)
Network Time Security Key Establishment Record Types	RFC 8915 0-1023: IETF Review. 1024-16383: Specification Required. 16384-32767: Private or Experimental Use. (Expert: Miroslav Lichvar, Daniel Franke)

Network Time Security Next Protocols	RFC 8915 0-1023: IETF Review. 1024-32767: Specification Required. 32768-65535: Private or Experimental Use. (Expert: Miroslav Lichvar, Daniel Franke)
Network Time Security Warning Codes	RFC 8915 0-1023: IETF Review. 1024-32767: Specification Required. 32768-65535: Private or Experimental Use. (Expert: Miroslav Lichvar, Daniel Franke)
Network Virtualization Overlay (NVO3)	
Geneve Option Class	RFC 8926 0x0000-0x00FF: IETF Review. 0x0100-0xFEFF: First Come First Served. 0xFF00-0xFFFF: Experimental Use.
Next Hop Resolution Protocol (NHRP) Types	
NHRP Extension Types	RFC 2332 Expert Review (Expert: Jim Luciani)
NHRP Packet Types	RFC 2332 Expert Review (Expert: Jim Luciani)
Novell Service Advisor Protocol (SAP) Numbers - Novell Object Types	
Novell Object Type	IANA does not assign
NSIS Signaling Layer Protocol (NSLP) Parameters	
AUTH_ENT_ID (X-Type 1) SubType values	RFC 5981 Specification Required (Expert: Unassigned)
DEST_ADDR (X-Type 4) SubType values	RFC 5981 Specification Required (Expert: Unassigned)
END_TIME (X-Type 6) SubType values	RFC 5981 Specification Required (Expert: Unassigned)
Informational Error Codes	RFC 5974 0-63: IETF Review. 64-127: Specification Required. (Expert: Unassigned)
NATFW NSLP Header Flags	RFC 5973 IETF Review
NATFW NSLP Message Types	RFC 5973 IETF Review
NATFW Response Codes	RFC 5973 IETF Review
NSLP Error Classes	RFC 5974, RFC 5973 IETF Review
NSLP Message Objects	RFC 5974 1-1023: IETF Review. 1024-1999: Specification Required. (Expert: Unassigned)
Permanent Failure Codes	RFC 5974 0-63: IETF Review. 64-127: Specification Required. (Expert: Unassigned)
Protocol Error Codes	RFC 5974 0-63: IETF Review. 64-127: Specification Required. (Expert: Unassigned)
QoS Model Error Codes	RFC 5975 Specification Required (Expert: Unassigned)

QoS NSLP Binding Codes	RFC 5974 IETF Review
QoS NSLP Error Source Identifiers	RFC 5974 Specification Required (Expert: Unassigned)
QoS NSLP Message Types	RFC 5974 IETF Review
SESSION_AUTH X-Types	RFC 5981 Specification Required (Expert: Unassigned)
SOURCE_ADDR (X-Type 3) SubType values	RFC 5981 Specification Required (Expert: Unassigned)
START_TIME (X-Type 5) SubType values	RFC 5981 Specification Required (Expert: Unassigned)
Success Error Codes	RFC 5974 0-63: IETF Review. 64-127: Specification Required. (Expert: Unassigned)
Transient Failure Codes	RFC 5974 0-63: IETF Review. 64-127: Specification Required. (Expert: Unassigned)

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OAuth Parameters

OAuth Access Token Types	RFC 6749 , RFC 8414 Specification Required (Expert: Hannes Tschofenig, M Jones)
OAuth Authorization Endpoint Response Types	RFC 6749 Specification Required (Expert: Hannes Tschofenig, M Jones)
OAuth Authorization Server Metadata	RFC 8414 Specification Required (Expert: Mike Jones, Nat Sakir John Bradley, Dick Hardt)
OAuth Dynamic Client Registration Metadata	RFC 7591 Specification Required (Expert: Justin Richer)
OAuth Extensions Error Registry	RFC 6749 Specification Required (Expert: Hannes Tschofenig, M Jones)
OAuth Parameters	RFC 6749 Specification Required (Expert: Hannes Tschofenig, M Jones)
OAuth Protected Resource Metadata	RFC 9728 Specification Required (Expert: Michael Jones, Dick H)
OAuth Token Endpoint Authentication Methods	RFC 7591 , RFC 8414 Specification Required (Expert: Justin Richer)
OAuth Token Introspection Response	RFC 7662 Specification Required (Expert: Justin Richer)
OAuth Token Type Hints	RFC 7009 Specification Required (Expert: Torsten Lodderstedt, Jones)
OAuth URI	RFC 6755 Specification Required (Expert: Hannes Tschofenig, M Jones)
PKCE Code Challenge Methods	RFC 7636 Specification Required (Expert: John Bradley, Mike Jor

One Time Password (OTP) Parameters

Algorithm Identifier	RFC 2289 IESG Approval
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Extension Set Identifiers	RFC 2243 IESG Approval
One-Way Active Measurement Protocol (OWAMP) Parameters	
OWAMP-Control Command Numbers	RFC 7718 IETF Review
OWAMP-Modes	RFC 7718 IETF Review
Open Pluggable Edge Services (OPES)	
OPES Callout Protocol (OCP) Core	RFC 4037 Expert Review for standards-track registration
Open Shortest Path First (OSPF)	
Bandwidth Constraints Model Identifiers	RFC 4124 0-239: Specification Required. 240-255: Reserved for Private Use. (Expert: Unassigned)
Open Shortest Path First (OSPF) Authentication Codes	
Authentication Codes	RFC 2328, RFC 6549 IETF Review
Open Shortest Path First (OSPF) Link Local Signalling (LLS) - Type/Length/Value Identifiers (TLV)	
Link Local Signalling TLV Identifiers (LLS Types)	RFC 5613 IETF Review
LLS Type 1 Extended Options and Flags	RFC 5613 Expert Review (Expert: Gunter Van De Velde, Peter Ps)
Open Shortest Path First (OSPF) Multi-Topology Routing	
Multi-Topology ID Values	RFC 4915 0-2: Reserved. 3-31: IETF Review. 32-127: Reserved. 128-255: Reserved.
Open Shortest Path First (OSPF) Opaque Link-State Advertisements (LSA) Option Types	
Opaque Link-State Advertisements (LSA) Option Types	RFC 5250 0-127: IETF Review. 128-255: Private Use.
OSPFv2 TTZ LSA TLVs	RFC 8099 IETF Review
Open Shortest Path First (OSPF) Parameters	
OSPF Dynamic Flooding LSA TLVs	draft-ietf-lsr-dynamic-flooding-18 IETF Review or IESG Approval
OSPF Flex-Algorithm Prefix Metric Bits	RFC 9350 IETF Review
OSPF Flexible Algorithm Definition TLV Sub-TLVs	RFC 9350 IETF Review or IESG Approval
OSPF Link Attributes Sub-TLV Bit Values	draft-ietf-lsr-dynamic-flooding-18 IETF Review or IESG Approval
OSPF Router Functional Capability Bits	RFC 7770 IETF Review
OSPF Router Information (RI) TLVs	RFC 7770 1-32767: IETF Review. 32768-32777: Experimentation. 32778-65535: Reserved.
OSPF Router Informational Capability Bits	RFC 7770 IETF Review
OSPF Tunnel Parameter Sub-TLVs	RFC 9013 1-34999: Standards Action. 35000-65499: First Come First Served.

Open Shortest Path First (OSPF) Signature Algorithms

Signature Algorithms	RFC 2154 IETF Review
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Open Shortest Path First (OSPF) Traffic Engineering TLVs

RFC 4973 Experimental TE LSA Types	RFC 4973 IETF Review
RFC 4973 Experimental TE TLVs	RFC 4973 IETF Review
Top Level Types in TE LSAs	RFC 3630 Standards Action
Types for sub-TLVs of Optical Node Property (Value 6)	RFC 7688 Standards Action
Types for sub-TLVs of OTN-TDM SCSI (Switching Capability Specific Information)	RFC 7138 Standards Action
Types for sub-TLVs of Router Address TLV (Value 1)	RFC 6827 Standards Action
Types for sub-TLVs of TE Link TLV (Value 2)	RFC 3630 Standards Action
Types for sub-TLVs of TE Node Attribute TLV (Value 5)	RFC 5786 Standards Action
Types for sub-TLVs of WSON-LSC SCSI (Switching Capability Specific Information)	RFC 7688 Standards Action

Open Shortest Path First v2 (OSPFv2) Parameters

IP Algorithm Prefix Reachability Sub-TLV Flags	RFC 9502 IETF Review or IESG Approval
OSPF Packet Type (both v2 and v3)	RFC 2328, RFC 4940 1-127: Standards Action. 128-255: Reserved.
OSPFv2 Extended Inter-Area ASBR Sub-TLVs	RFC 9350 IETF Review or IESG Approval
OSPFv2 Extended Inter-Area ASBR TLVs	RFC 9350 IETF Review or IESG Approval
OSPFv2 Extended Link Opaque LSA TLVs	RFC 7684 IETF Review or IESG Approval
OSPFv2 Extended Link TLV Sub-TLVs	RFC 7684, RFC 9356 IETF Review or IESG Approval
OSPFv2 Extended Prefix Opaque LSA TLVs	RFC 7684 IETF Review or IESG Approval
OSPFv2 Extended Prefix TLV Flags	RFC 7684 IETF Review or IESG Approval
OSPFv2 Extended Prefix TLV Sub-TLVs	RFC 7684 IETF Review or IESG Approval
OSPFv2 Grace LSA Top Level TLV	RFC 4940 1-255: Standards Action. 256-65519: Reserved. 65520-65527: Experimentation. 65528-65535: Vendor Private Use.
OSPFv2 Instance IDs	RFC 6549 Standards Action
OSPFv2 Link State (LS) Type	RFC 2328, RFC 4940 1-127: Standards Action. 128-255: Reserved.
OSPFv2 Options Registry (8 bits)	RFC 4940 Standards Action

OSPFv2 Prefix Extended Flags	RFC 9792 IETF Review
OSPFv2 Router LSA Link Type (Value 1)	RFC 4940 1-127: Standards Action. 128-255: Reserved.
OSPFv2 Router Properties Registry	RFC 4940 Standards Action

Open Shortest Path First v3 (OSPFv3) Authentication Trailer Options

OSPFv3 Authentication Types	RFC 7166 Standards Action
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Open Shortest Path First v3 (OSPFv3) Parameters

LD Options	RFC 5820 IETF Review
OSPFv3 Autoconfiguration (AC) LSA TLVs	RFC 7503 IETF Review or IESG Approval
OSPFv3 Extended-LSA Sub-TLVs	RFC 8362 , RFC 9356 4-32767: IETF Review or IESG Approval. 33024-45055: First Come First Served.
OSPFv3 Extended-LSA TLVs	RFC 8362 9-32767: IETF Review or IESG Approval. 33024-45055: First Come First Served.
OSPFv3 Instance ID Address Family Values	RFC 5838 , RFC 6969 Standards Action
OSPFv3 LSA Function Codes	RFC 7770 0-255: IETF Review. 256-8175: Reserved. 8176-8183: Experimentation. 8184-8190: Vendor Private Use. 8191: Reserved.
OSPFv3 Options (24 bits)	RFC 4940 Standards Action
OSPFv3 Prefix Extended Flags	RFC 9792 IETF Review
OSPFv3 Prefix Options (8 bits)	RFC 4940 Standards Action
OSPFv3 Router LSA Link Types	RFC 4940 0-127: Standards Action. 128-255: Reserved.
OSPFv3 Router Properties Registry	RFC 5340 Standards Action
OSPFv3 SRv6 Adjacency SID Sub-TLV Flags	RFC 9513 Standards Action
OSPFv3 SRv6 Capabilities TLV Flags	RFC 9513 Standards Action
OSPFv3 SRv6 End SID Sub-TLV Flags	RFC 9513 Standards Action
OSPFv3 SRv6 Locator LSA Sub-TLVs	RFC 9513 0-32767: IETF Review or IESG Approval. 33024-45055: First Come First Served.
OSPFv3 SRv6 Locator LSA TLVs	RFC 9513 0-32767: IETF Review or IESG Approval. 33024-45055: First Come First Served.

Open Systems Interconnection (OSI) Network Service Access Point Addresses (NSAPA) Internet Co Point Registry

OSI NSAPA Internet Code Points for AFI 35	RFC 4548 IETF Review
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OpenPGP

OpenPGP AEAD Algorithms	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP Armor Header Keys	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP Armor Header Lines	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP Compression Algorithms	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP ECC Curve OIDs and Usage	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP ECC Curve-Specific Wire Formats	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP ECDH KDF and KEK Parameters	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP Elliptic Curve Point Wire Formats	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP Elliptic Curve Scalar Encodings	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP Encrypted Message Packet Versions	RFC 9580 RFC Required
OpenPGP Features Flags	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP Hash Algorithm Identifiers for RSA Signatures' Use of EMSA-PKCS1-v1_5 Padding	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP Hash Algorithms	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP Image Attribute Encoding Format	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP Image Attribute Versions	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP Key and Signature Versions	RFC 9580 RFC Required
OpenPGP Key Flags	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP Key IDs and Fingerprints	RFC 9580 RFC Required
OpenPGP Key Server Preference Flags	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP New Packet Versions (OBSOLETE)	RFC 9580 Registry closed

OpenPGP Packet Types	RFC 9580 RFC Required
OpenPGP Public Key Algorithms	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP Reason for Revocation (Revocation Octet)	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP Secret Key Encryption (S2K Usage Octet)	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP Signature Notation Data Subpacket Notation Flags	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP Signature Notation Data Subpacket Types	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP Signature Subpacket Types	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP Signature Types	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP String-to-Key (S2K) Types	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP Symmetric Key Algorithms	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
OpenPGP User Attribute Subpacket Types	RFC 9580 Specification Required (Expert: Daniel Kahn Gillmor, A Gallagher, Heiko Schäfer)
Operating System Names	
Operating System Names	RFC 952 First Come First Served
OS Specific Fact Names	RFC 3659 First Come First Served
OS Specific Filetypes	RFC 3659 First Come First Served
Optimized Link State Routing (OLSR) Protocol Message Types	
OLSR Protocol Message Types	RFC 3626 1-127: Standards Action. 128-255: Private/Local Use.
Opus Channel Mapping Families	
Opus Channel Mapping Families	RFC 7845, RFC 8486 Specification Required (Expert: Tim Terriberry, Ralph
OSPF Database Description (DD) Packet Flags	
Database Description (DD) Packet Flags	RFC 5838 Standards Action P
Packet Sampling (PSAMP) Parameters	
PSAMP selectorAlgorithm Identifiers	RFC 5476 Expert Review (Expert: Unassigned)
PAL Package Types	
PAL Package Types	RFC 8295 Expert Review (Expert: Sean Turner)

Path Computation Element Protocol (PCEP) Numbers

ASSOCIATION Flag Field	RFC 8697 , RFC 9756 IETF Review
ASSOCIATION Type Field	RFC 8697 , RFC 9756 IETF Review
AUTO-BANDWIDTH-ATTRIBUTES Sub-TLV Types	RFC 8733 0-65503: IETF Review. 65504-65535: Experimental Use.
AUTO-BANDWIDTH-CAPABILITY TLV Flag Field	RFC 8733 , RFC 9756 IETF Review
Bidirectional LSP Association Group TLV Flag Field	RFC 9059 , RFC 9756 IETF Review
BPI Object Error Code Field	RFC 9757 IETF Review
BPI Object Flag Field	RFC 9757 IETF Review
BPI Object Status Code Field	RFC 9757 IETF Review
BU Object Type Field	RFC 8233 , RFC 9756 IETF Review
CCI Object Flag Field for MPLS Label	RFC 9050 , RFC 9756 IETF Review
CCI Object Flag Field for Native IP	RFC 9757 IETF Review
CLOSE Object Flag Field	RFC 5440 IETF Review
CLOSE Object Reason Field	RFC 5440 IETF Review
DISJOINTNESS-CONFIGURATION TLV Flag Field	RFC 8800 , RFC 9756 IETF Review
Domain-ID TLV Domain Type	RFC 8685 IETF Review
FLOWSPEC Object Flag Field	RFC 9168 , RFC 9756 IETF Review
Generalized Endpoint Types	RFC 8779 , RFC 9756 0-244: IETF Review. 245-255: Experimental Use.
GMPLS-CAPABILITY TLV Flag Field	RFC 8779 , RFC 9756 IETF Review
H-PCE-CAPABILITY TLV Flag Field	RFC 8685 , RFC 9756 IETF Review
H-PCE-FLAG TLV Flag Field	RFC 8685 , RFC 9756 IETF Review
Inter-Layer Object Path Property Bits	RFC 8282 IETF Review
IRO Subobjects	RFC 5521 IETF Review
LOAD-BALANCING Object Flag Field	RFC 5440 IETF Review
LSP Exclusion Subobject Flag Field	RFC 9504 , RFC 9756 IETF Review
LSP Object Flag Field	RFC 8231 , RFC 9756 IETF Review
LSP-ERROR-CODE TLV Error Code Field	RFC 8231 , RFC 9756 IETF Review

LSP-EXTENDED-FLAG TLV Flag Field	RFC 9357, RFC 9756 IETF Review
LSPA Object Flag Field	RFC 5440 IETF Review
METRIC Object Flag Field	RFC 5440 IETF Review
METRIC Object T Field	RFC 5440 IETF Review
MONITORING Object Flag Field	RFC 5886 IETF Review
NO-PATH Object Flag Field	RFC 5440 IETF Review
NO-PATH Object NI Field	RFC 5440 IETF Review
NO-PATH-VECTOR TLV Flag Field	RFC 5440 IETF Review
Notification Object	RFC 5440 IETF Review
Notification Object Flag Field	RFC 5440 IETF Review
Objective Function	RFC 5541 1-1023: IETF Review. 1024-32767: First Come First Served. 32768-65535: Reserved for Private Use.
Open Object Flag Field	RFC 5440 IETF Review
OVERLOAD Object Flag field	RFC 5886 IETF Review
Path Protection Association Group TLV Flag Field	RFC 8745, RFC 9756 IETF Review
PATH-KEY Subobjects	RFC 5520 IETF Review
PATH-SETUP-TYPE-CAPABILITY Sub-TLV Type Indicators	RFC 8664, RFC 9756 IETF Review
PCECC-CAPABILITY sub-TLV	RFC 9050, RFC 9756 IETF Review
PCEP Flow Specification TLV Type Indicators	RFC 9168 0-255: Reserved. 256-64506: Specification Required. 64507-65531: First Come First Served. 65532-65535: Experimental Use.
PCEP Message Common Header Flag Field	RFC 5440 IETF Review
PCEP Messages	RFC 5440 0-251: IETF Review. 252-255: Experimental Use.
PCEP Objects	RFC 5440 0-247: IETF Review. 248-255: Experimental Use.
PCEP Path Setup Types	RFC 8408 IETF Review
PCEP SR-ERO NAI Types	RFC 8664 IETF Review
PCEP SRv6-ERO NAI Types	RFC 9603 IETF Review

PCEP TLV Type Indicators	RFC 5440 0-65503: IETF Review. 65504-65535: Experimental Use.
PCEP-ERROR Object Error Types and Values	RFC 5440 , RFC 9756 0-251: IETF Review. 252-255: Experimental Use.
PCEP-ERROR Object Flag Field	RFC 5440 IETF Review
PROC-TIME Object Flag Field	RFC 5886 IETF Review
RP Object Flag Field	RFC 5440 IETF Review
S2LS Object Flag Field	RFC 8623 , RFC 9756 IETF Review
SCHED-PD-LSP-ATTRIBUTE TLV Opt Field	RFC 8934 , RFC 9756 IETF Review
Schedule TLVs Flag Field	RFC 8934 , RFC 9756 IETF Review
SR Capability Flag Field	RFC 8664 , RFC 9756 IETF Review
SR Policy Capability TLV Flag Field	RFC 9862 IETF Review
SR Policy Invalidation Configuration Flags	RFC 9862 IETF Review
SR Policy Invalidation Operational Flags	RFC 9862 IETF Review
SR-ERO Flag Field	RFC 8664 , RFC 9756 IETF Review
SRP Object Flag Field	RFC 8281 , RFC 8786 , RFC 9756 IETF Review
SRv6 Capability Flag Field	RFC 9603 , RFC 9756 IETF Review
SRv6-ERO Flag Field	RFC 9603 , RFC 9756 IETF Review
STATEFUL-PCE-CAPABILITY TLV Flag Field	RFC 8231 , RFC 9756 IETF Review
SVEC Object Flag Field	RFC 5440 IETF Review
TE-PATH-BINDING TLV BT Field	RFC 9604 , RFC 9756 IETF Review
TE-PATH-BINDING TLV Flag Field	RFC 9604 , RFC 9756 IETF Review
WA Object Flag Field	RFC 8780 , RFC 9756 IETF Review
Wavelength Allocation TLV Flag Field	RFC 8780 , RFC 9756 IETF Review
Wavelength Restriction TLV Action Values	RFC 8780 , RFC 9756 IETF Review
XRO Flag Field	RFC 5521 IETF Review
XRO Subobjects	RFC 5521 IETF Review

Peer-to-Peer Streaming Peer Protocol (PPSPP)

PPSP Peer Protocol Chunk Addressing Method Registry	RFC 7574 IETF Review
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PPSP Peer Protocol Content Integrity Protection Method Registry	RFC 7574 IETF Review
PPSP Peer Protocol Merkle Hash Tree Function Registry	RFC 7574 IETF Review
PPSP Peer Protocol Message Type Registry	RFC 7574 IETF Review
PPSP Peer Protocol Option Registry	RFC 7574 IETF Review
PPSP Peer Protocol Version Number Registry	RFC 7574 IETF Review

Peer-to-Peer Streaming Tracker Protocol (PPSTP)

PPSTP Error Code Registry	RFC 7846 IETF Review
PPSTP Request Type Registry	RFC 7846 IETF Review
PPSTP Version Number Registry	RFC 7846 IETF Review

Per Hop Behavior Identification Codes

Per Hop Behavior Identification Codes	RFC 3140 Expert or area director review (Expert: Primary: Brian Carpenter; Secondary: David Black)
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Performance Metrics

Performance Metric Name Elements - Method	RFC 8911 Specification Required (Expert: Greg Mirsky, Michael :)
Performance Metric Name Elements - Metric Type	RFC 8911 Specification Required (Expert: Greg Mirsky, Michael :)
Performance Metric Name Elements - Output	RFC 8911 Specification Required (Expert: Greg Mirsky, Michael :)
Performance Metric Name Elements - Spec	RFC 8911 Specification Required (Expert: Greg Mirsky, Michael :)
Performance Metric Name Elements - SubTypeMethod	RFC 8911 Specification Required (Expert: Greg Mirsky, Michael :)
Performance Metric Name Elements - Units	RFC 8911 Specification Required (Expert: Greg Mirsky, Michael :)
Performance Metrics Registry	RFC 8911 Specification Required (Expert: Greg Mirsky, Michael :)

Permanent IPv6 Multicast Group Identifiers

Group Identifier Values	RFC 3307 Expert Review (Expert: Stig Venaas)
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Point-to-Point (PPP) Protocol Field Assignments

IP Header Compression Configuration Option Suboption Types	RFC 3544 Standards Action
IP-Compression-Protocol Types	RFC 1332 IETF Review
IPv6-Compression-Protocol Types	RFC 5172 IETF Review
NetBIOS Frames Control Protocol (NBFCP) Configuration Options	RFC 2097 Expert Review (Expert: James Carlson)
PPP (IPXCP) Configuration Options	RFC 1552 Expert Review (Expert: James Carlson)
PPP ATCP Configuration Option Types	RFC 1378 Expert Review (Expert: James Carlson)
PPP Authentication Algorithms	RFC 1994 Expert Review (Expert: James Carlson)

PPP Banyan Vines Configuration Option Types	RFC 1763 Expert Review (Expert: James Carlson)
PPP Bridging Configuration Option Types	RFC 3518 , RFC 3818 IETF Review
PPP Bridging MAC Types	RFC 3518 , RFC 3818 IETF Review
PPP Bridging Spanning Tree	RFC 3518 , RFC 3818 IETF Review
PPP CCP Configuration Option Types	RFC 1962 , RFC 3818 IETF Review
PPP DLL Protocol Numbers	RFC 1661 , RFC 3818 0xxx-3xxx: IETF Review. 4xxx-7xxx: IETF Review. 8xxx-bxxx: IETF Review. cxxx-fxxx: IETF Review.
PPP EAP Request/Response Types	RFC 3748 Expert Review
PPP ECP Configuration Option Types	RFC 1968 Expert Review (Expert: James Carlson)
PPP IPCP Configuration Option Types	RFC 1332 , RFC 3818 IETF Review
PPP IPv6CP Configuration Options	RFC 5072 , RFC 3818 IETF Review
PPP LCP Callback Operation Fields	RFC 1570 , RFC 3818 IETF Review
PPP LCP Configuration Option Types	RFC 1661 , RFC 3818 IETF Review
PPP LCP FCS-Alternatives	RFC 1570 , RFC 3818 IETF Review
PPP Link Control Protocol (LCP) and Internet Protocol Control Protocol (IPCP) Codes	RFC 1661 , RFC 3818 IETF Review
PPP Multilink Endpoint Discriminator Class	RFC 1990 , RFC 3818 IETF Review
PPP OSINLCP Configuration Option Types	RFC 1377 Expert Review (Expert: James Carlson)
PPP Over Ethernet Versions	RFC 2516 , RFC 8822 Specification Required (Expert: Donald Eastlake)
PPP SDCP Configuration Options	RFC 1963 Expert Review (Expert: James Carlson)
PPP TNCP Configuration Option Types	RFC 6361 IETF Review
PPP Vendor Specific OUI Options	RFC 5342 Registry closed by RFC 5342
ROHC Configuration Option Suboption Identifier Values	RFC 3241
Point-to-Point Over Ethernet (PPPoE) Parameters	
PPPoE Active Discovery Code fields (8-bit values)	RFC 4937 First Come First Served
PPPoE TAG Values (16-bit values)	RFC 4937 First Come First Served
Port Control Protocol (PCP) Parameters	
PCP Opcodes	RFC 6887 0-31, 127: Standards Action. 32-63: Specification Required. (Expert: Dan Wing, Stuart Cheshire)

PCP Options	RFC 6887 0-63, 127-191, 255: Standards Action. 64-95, 192-223: Specification Required. (Expert: Dan Wing, Stuart Cheshire)
PCP Result Codes	RFC 6887 0-127, 255: Standards Action. 128-191: Specification Required. (Expert: Dan Wing, Stuart Cheshire)
Portable Symmetric Key Container (PSKC)	
Algorithm URI Registry and Related PSKC Profiles	RFC 6030 Specification Required (Expert: Unassigned)
Key Usage Registry	RFC 6030 Expert Review (Expert: Unassigned)
PSKC Version Registry	RFC 6030 Standards Action
Post Office Protocol version 3 (POP3) Extension Mechanism	
POP3 Capabilities	RFC 2449 Standards Track or IESG-approved Experimental RFC
POP3 Response Codes	RFC 2449 RFC Specification Required
Post-Stack First Nibble	
Post-Stack First Nibble	RFC 9790 Standards Action
Posture Attribute (PA) Protocol Compatible with Trusted Network Connect (TNC) Parameters	
PA-TNC Attribute Types	RFC 5792 Specification Required (Expert: Steve Hanna, Jessica Fitzgerald-McKay, Charles Schmidt)
PA-TNC Error Codes	RFC 5792 Specification Required (Expert: Steve Hanna, Jessica Fitzgerald-McKay, Charles Schmidt)
PA-TNC Remediation Parameters Types	RFC 5792 Specification Required (Expert: Steve Hanna, Jessica Fitzgerald-McKay, Charles Schmidt)
Software Data Model Types	RFC 8412 Specification Required (Expert: David Waltermire, Jessica Fitzgerald-McKay)
Posture Broker (PB) Protocol Compatible with Trusted Network Connect (TNC) Parameters	
PA Subtypes	RFC 5793 Specification Required (Expert: Steve Hanna, Jessica Fitzgerald-McKay, Charles Schmidt)
PB-TNC Error Codes	RFC 5793 Specification Required (Expert: Steve Hanna, Jessica Fitzgerald-McKay, Charles Schmidt)
PB-TNC Message Types	RFC 5793 Specification Required (Expert: Steve Hanna, Jessica Fitzgerald-McKay, Charles Schmidt)
PB-TNC Remediation Parameters Types	RFC 5793 Specification Required (Expert: Steve Hanna, Jessica Fitzgerald-McKay, Charles Schmidt)
Power State Sets	
DMTF Power State Set	RFC 7326 Expert Review (Expert: Unassigned)
EMAN Power State Set	RFC 7326 Expert Review (Expert: Unassigned)
IEEE1621 Power State Set	RFC 7326 Expert Review (Expert: Unassigned)

PRECIS Derived Property Value

[PRECIS Derived Property Value](#) [RFC 8264, RFC 5892](#)
Expert Review (Expert: Patrik Fältström)

Preparation and Comparison of Internationalized Strings (PRECIS) Parameters

[PRECIS Base Classes](#) [RFC 8264](#)
RFC Required

[PRECIS Profiles](#) [RFC 8264](#)
Expert Review (Expert: Peter Saint-Andre (primary), P. Resnick (secondary), Andrew Sullivan (backup))

Presence SRV Protocol Label Registry

[Presence SRV Protocol Labels](#) [RFC 3861](#)
Specification Required (Expert: Unassigned)

Printer MIB Interpreters Language Families - OBSOLETE

[Printer MIB Interpreters Language Families - OBSOLETE](#) [RFC 3805](#)
Expert Review (Expert: Ira McDonald, Michael Sweet)

Privacy Enhanced RTP Conferencing (PERC)

[Datagram Transport Layer Security \(DTLS\) Tunnel Protocol Message Types for Privacy Enhanced Conferencing](#) [RFC 9185](#)
IETF Review

Privacy Pass

[Privacy Pass Token Types](#) [RFC 9577](#)
Specification Required (Expert: Tommy Pauly, Chris W

Probabilistic Routing Protocol using History of Encounters and Transitivity (PRoPHET)

[Bundle Offer and Response B Flags](#) [RFC 6693](#)
Specification Required (Expert: Unassigned)

[Bundle Offer and Response TLV Flags](#) [RFC 6693](#)
Specification Required (Expert: Unassigned)

[DTN Routing Protocol Number](#) [RFC 6693](#)
Specification Required (Expert: Unassigned)

[Error TLV Flags](#) [RFC 6693](#)
Specification Required (Expert: Unassigned)

[Hello TLV Flags 0, 1, 2](#) [RFC 6693](#)
Specification Required (Expert: Unassigned)

[Hello TLV Flags 3-7](#) [RFC 6693](#)
Specification Required (Expert: Unassigned)

[PRoPHET Codes for Failure](#) [RFC 6693](#)
Specification Required (Expert: Unassigned)

[PRoPHET Codes for Success](#) [RFC 6693](#)
Specification Required (Expert: Unassigned)

[PRoPHET Header Flags](#) [RFC 6693](#)
Specification Required (Expert: Unassigned)

[PRoPHET Protocol Version](#) [RFC 6693](#)
Specification Required (Expert: Unassigned)

[PRoPHET Result Field](#) [RFC 6693](#)
Specification Required (Expert: Unassigned)

[PRoPHET TLV Type](#) [RFC 6693](#)
Specification Required (Expert: Unassigned)

[RIB Dictionary TLV Flags](#) [RFC 6693](#)
Specification Required (Expert: Unassigned)

[RIB Flags](#) [RFC 6693](#)
Specification Required (Expert: Unassigned)

[RIB TLV Flags](#) [RFC 6693](#)
Specification Required (Expert: Unassigned)

Profile URIs

Profile URIs	RFC 7284 First Come First Served (Specification Suggested)
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Pronet 80 Type Numbers

Pronet 80 Type Numbers	IANA does not assign
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Protocol for Carrying Authentication for Network Access (PANA) Parameters

AVP Codes	RFC 5191 , RFC 6786 Expert Review with Specification Required, or Standards Action (Expert: Alper Yegin)
AVP Flags	RFC 5191 , RFC 5872 Standards Action or IESG Approval
Message Flags	RFC 5191 , RFC 5872 Standards Action or IESG Approval
Message Types	RFC 5191 , RFC 5872 1-65519: IETF Review or IESG Approval. 65520-65535: IANA does not assign.

Protocol Independent Multicast (PIM) Parameters

PIM Address Encoding Types	RFC 5384 , RFC 7761 , RFC 7887 IETF Review
PIM Address Family	RFC 3973 , RFC 7761 IESG Approval
PIM Designated Router Load-Balancing Hash Algorithms	RFC 8775 IETF Review
PIM Flooding Mechanism Message Types	RFC 8364 IETF Review
PIM Join Attribute Types	RFC 5384 IETF Review
PIM Join/Prune Transport Types	RFC 8059 IETF Review
PIM Message Types	RFC 9436 IETF Review
PIM-Hello Options	RFC 7761 , RFC 3973 First Come First Served (expire in 1 year); Specification Required for Permanent assignments (Expert: Stig Ve Jeffrey (Zhaohui) Zhang)
PORT Message Types	RFC 6559 RFC Required
PORT Option Types	RFC 6559 RFC Required

Protocol Numbers

Assigned Internet Protocol Numbers	RFC 5237 , RFC 7045 IESG Approval or Standards Action
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Protocol to Access White-Space (PAWS)

PAWS Error Code Registry	RFC 7545 Specification Required (Expert: Unassigned)
PAWS Parameters Registry	RFC 7545 Specification Required (Expert: Unassigned)
PAWS Ruleset ID Registry	RFC 7545 Specification Required (Expert: Unassigned)

Provisioning Domains (PvDs)

Additional Information PvD Keys	RFC 8801 Expert Review (Expert: Tommy Pauly, David Schinazi)
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[PvD Option Flags](#)[RFC 8801](#)
Standards Action[PvD Split DNS Claims](#)[RFC 9704](#)
Expert Review (Expert: Tommy Pauly, Tirumaleswar R Benjamin M. Schwartz)**Proxy Certificate Policy Languages**[Proxy Certificate Policy Languages](#)[RFC 3820](#)
IETF Standards Action**Pseudowire Name Spaces (PWE3)**[Associated Channel Header TLV Registry \(DELETED\)](#)[RFC 5586, RFC 7026](#)[Attachment Group Identifier \(AGI\) Type Registry](#)[RFC 4446](#)
2-64: Expert Review.
65-127: IETF Review.
128-254: First Come First Served.
255: IETF Review.
(Expert: Stewart Bryant, Andrew Malis, Matthew Bocc)[Attachment Individual Identifier Type Registry](#)[RFC 4446](#)
2-64: Expert Review.
65-127: IETF Review.
128-254: First Come First Served.
255: IETF Review.
(Expert: Stewart Bryant, Andrew Malis, Matthew Bocc)[CC/CV MEP-ID TLV Registry](#)[RFC 6428, RFC 7214](#)[G-ACh Advertisement Protocol Application Registry](#)[RFC 7212, RFC 7214](#)[G-ACh Advertisement Protocol TLV Registry](#)[RFC 7212, RFC 7214](#)[G-ACh Advertisement Protocol: Ethernet Interface Parameters](#)[RFC 7213, RFC 7214](#)[Header Compression Over MPLS PW Control Word Packet Type](#)[RFC 4901](#)
Expert Review[ICC RG Parameter Types](#)[RFC 7275](#)
0x0000: IETF Review.
0x003B-0x1FFF: Expert Review.
0x2000-0x2FFF: IETF Review.
0x3000-0x3FFE: First Come First Served.
0x3FFF: IETF Review.
(Expert: Stewart Bryant, Matthew Bocci)[L2VPN PE Stack Capabilities](#)[RFC 6575](#)
IETF Review[MPLS Pseudowire Types Registry](#)[RFC 4446](#)
31-1024: Expert Review.
1025-4096: IETF Review.
4097-32766: First Come First Served.
32767: IETF Review.
(Expert: Stewart Bryant, Andrew Malis, Matthew Bocc)[MPLS VCCV Connectivity Verification \(CV\) Types](#)[RFC 5085](#)
IETF Review[MPLS VCCV Control Channel \(CC\) Types](#)[RFC 5085](#)
IETF Review[Pseudowire Associated Channel Types](#)[RFC 4385, RFC 5586, RFC 7026, RFC 7214](#)[Pseudowire Interface Parameters Sub-TLV type Registry](#)[RFC 4446](#)
2-64: Expert Review.
65-127: IETF Review.
128-254: First Come First Served.
255: IETF Review.
(Expert: Stewart Bryant, Andrew Malis, Matthew Bocc)[Pseudowire Status Codes Registry](#)[RFC 4446](#)
Expert Review (Expert: Stewart Bryant, Andrew Malis,

	Matthew Bocci)
Pseudowire Switching Point PE sub-TLV Type	RFC 6073 0: IETF Review. 1-64: Expert Review. 65-127: IETF Review. 128-254: First Come First Served. 255: IETF Review. (Expert: Primary: Stewart Bryant; secondary: Matthew
PSN Tunnel Sub-TLV Name Space	RFC 7965 IETF Review
PW Generic Protocol Flags	RFC 6478 IETF Review
PW Status Refresh Reduction Configuration Message Sub-TLVs	RFC 8237 0x00: IETF Review. 0x04-0x40: Expert Review. 0x41-0x7F: IETF Review. 0x80-0xFE: Expert Review. 0xFF: IETF Review. (Expert: Stewart Bryant, Andrew Malis)
PW Status Refresh Reduction Control Messages	RFC 8237 0x00: IETF Review. 0x03-0x40: Expert Review. 0x41-0x7F: IETF Review. 0x80-0xFE: Expert Review. 0xFF: IETF Review. (Expert: Stewart Bryant, Andrew Malis)
PW Status Refresh Reduction Message Flags	RFC 8237 IETF Review
PW Status Refresh Reduction Notification Codes	RFC 8237 0x00000000: IETF Review. 0x00000008-0x00010000: Expert Review. 0x00010001-0x08000000: IETF Review. 0x08000001-0xFFFFFFFF: Expert Review. 0xFFFFFFFF: IETF Review. (Expert: Stewart Bryant, Andrew Malis)
VCCV Extended CV Types	RFC 7189 IETF Review
PT-EAP: Posture Transport (PT) Protocol For EAP Tunnel Methods	
PT-EAP Versions	RFC 7171 Standards Action
Public Data Network Numbers	
Public Data Network Numbers	RFC 1356 Registrations no longer accepted
Public Key Infrastructure using X.509 (PKIX) Parameters	
Certification Authority Restriction Flags	RFC 8659 RFC Required
Certification Authority Restriction Properties	RFC 8659 Specification Required (Expert: Phillip Hallam-Baker)
PKIX SRV Protocol Labels	RFC 4386 Specification Required (Expert: Unassigned)
Public Notary Transparency	
Error Types	RFC 9162 Specification Required (Expert: Unassigned)
Hash Algorithms	RFC 9162 0x00-0xDF: Specification Required. 0xE0-0xEF: Experimental Use. 0xF0-0xFF: Private Use. (Expert: Unassigned)

Log Artifact Extensions	RFC 9162 0x0000-0xDFFF: Specification Required. 0xE000-0xEFFF: Experimental Use. 0xF000-0xFFFF: Private Use. (Expert: Unassigned)
Log IDs	RFC 9162 First Come First Served
Signature Algorithms	RFC 9162 0x0000-0x0807: Specification Required. 0x0808-0xFDFE: Expert Review. 0xFE00-0xFEFF: Experimental Use. 0xFF00-0xFFFF: Private Use. (Expert: Unassigned)
VersionedTransTypes	RFC 9162 0x0100-0xDFFF: Specification Required. 0xE000-0xEFFF: Experimental Use. 0xF000-0xFFFF: Private Use. (Expert: Unassigned)

Q

QoS NSIS Signal Layering Protocol (NSLP) QSPEC Parameters

Excess Treatment Parameter	RFC 5975 Specification Required (Expert: Unassigned)
Extent of Restoration Field	RFC 5976 Specification Required (Expert: Unassigned)
Object Types	RFC 5975 Specification Required (Expert: Unassigned)
Parameter ID	RFC 5975 Specification Required (Expert: Unassigned)
QSPEC Procedure	RFC 5975 Specification Required (Expert: Unassigned)
QSPEC Type	RFC 5975 Specification Required (Expert: Unassigned)
QSPEC Version	RFC 5975 Specification Required (Expert: Unassigned)
Restoration Priority Field	RFC 5976 Specification Required (Expert: Unassigned)
Time to Restore Field	RFC 5976 Specification Required (Expert: Unassigned)
Y.1541 QoS Class Parameter	RFC 5975 Specification Required (Expert: Unassigned)
Y.2171 Admission Priority Parameter	RFC 5975 Specification Required (Expert: Unassigned)

QUIC

QUIC Frame Types	RFC 9000 provisional: Expert Review. provisional registration Date field update: First Come Served. permanent, 0x00-0x3f: Standards Action or IESG App permanent, greater than 0x3f: Specification Required first unassigned codepoint: Standards Action. (Expert: Jana Iyengar, Ian Swett, Martin Thomson)
QUIC Transport Error Codes	RFC 9000 provisional: Expert Review. provisional registration Date field update: First Come Served. permanent, 0x00-0x3f: Standards Action or IESG App permanent, greater than 0x3f: Specification Required first unassigned codepoint: Standards Action. (Expert: Jana Iyengar, Ian Swett, Martin Thomson)

QUIC Transport Parameters**RFC 9000**

provisional: Expert Review.
 provisional registration Date field update: First Come Served.

permanent, 0x00-0x3f: Standards Action or IESG App
 permanent, greater than 0x3f: Specification Required
 first unassigned codepoint: Standards Action.
 values $31 * N + 27$ (for integer values of N): Reserved
 (Expert: Jana Iyengar, Ian Swett, Martin Thomson)

QUIC Versions**RFC 9000**

provisional: Expert Review.
 provisional registration Date field update: First Come Served.

permanent: Specification Required.
 first unassigned codepoint: Standards Action.
 value 0xa7a7a7a7: Reserved.
 (Expert: Jana Iyengar, Ian Swett, Martin Thomson)

R

Radius Types

Code Values for RADIUS Attribute 241.1, Frag-Status

RFC 7499

RFC Required

Data Type

RFC 8044

Standards Action

Entity Types (Attribute 127, Location-Information)

RFC 5580

Expert Review (Expert: Alan DeKok, Mohit Sethi)

Location Profiles (Attribute 127, Location-Information)

RFC 5580

Expert Review (Expert: Alan DeKok, Mohit Sethi)

Location-Capable Attribute (Attribute 131)

RFC 5580

Expert Review (Expert: Alan DeKok, Mohit Sethi)

Operator Namespace Identifier for Attribute 126

RFC 5580

Expert Review (Expert: Alan DeKok, Mohit Sethi)

Option Codes Permitted in the Softwire46-Priority Attribute

RFC 8658

IETF Review

Privacy Flags (Attribute 129, Basic-Location-Policy-Rules)

RFC 5580

Expert Review (Expert: Alan DeKok, Mohit Sethi)

RADIUS Attribute Types

RFC 3575, RFC 6929, RFC 8044

1-191: IETF Review.
 192-240: Reserved for Private Use.
 224-240: Implementation Specific.
 241-246 (extended space, Unassigned): IETF Review.
 241-246 (extended space, Reserved); Standards Actio
 247-255: Reserved.

RADIUS IP Port Configuration and Reporting TLVs

RFC 8045

Standards Action

RADIUS Packet Type Codes

RFC 3575

IESG Approval

RADIUS Softwire46 Configuration and Multicast Attributes

RFC 8658

Standards Action

Requested-Location-Info Attribute (Attribute 132)

RFC 5580

Expert Review (Expert: Alan DeKok, Mohit Sethi)

Values for RADIUS Attribute 10, Framed-Routing

RFC 2865, RFC 3575

Expert Review (Expert: Alan DeKok, Margaret Cullen)

Values for RADIUS Attribute 101, Error-Cause Attribute

RFC 3575, RFC 5176, RFC 7930

Expert Review (Expert: Alan DeKok, Margaret Cullen)

Values for RADIUS Attribute 13, Framed-Compression

RFC 2865, RFC 3575

Expert Review (Expert: Alan DeKok, Margaret Cullen)

Values for RADIUS Attribute 133, Framed-Management-Protocol Attribute

RFC 5607

Specification Required (Expert: Alan DeKok, Margaret

Values for RADIUS Attribute 134, Management-Transport-Protection Attribute	RFC 5607 Specification Required (Expert: Alan DeKok, Margaret)
Values for RADIUS Attribute 15, Login-Service	RFC 2865 , RFC 3575 Expert Review (Expert: Alan DeKok, Margaret Cullen)
Values for RADIUS Attribute 29, Termination-Action	RFC 2865 , RFC 3575 Expert Review (Expert: Alan DeKok, Margaret Cullen)
Values for RADIUS Attribute 40, Acct-Status-Type	RFC 2866 , RFC 3575 Expert Review (Expert: Alan DeKok, Margaret Cullen)
Values for RADIUS Attribute 45, Acct-Authentic	RFC 2866 , RFC 3575 Expert Review (Expert: Alan DeKok, Margaret Cullen)
Values for RADIUS Attribute 49, Acct-Terminate-Cause	RFC 2866 , RFC 3575 Expert Review (Expert: Alan DeKok, Margaret Cullen)
Values for RADIUS Attribute 6, Service-Type	RFC 2865 , RFC 3575 IETF Review
Values for RADIUS Attribute 61, NAS-Port-Type	RFC 2865 , RFC 3575 Expert Review (Expert: Alan DeKok, Margaret Cullen)
Values for RADIUS Attribute 64, Tunnel-Type	RFC 3575 Expert Review (Expert: Alan DeKok, Margaret Cullen)
Values for RADIUS Attribute 65, Tunnel-Medium-Type	RFC 3575 Expert Review (Expert: Alan DeKok, Margaret Cullen)
Values for RADIUS Attribute 7, Framed-Protocol	RFC 2865 , RFC 3575 Expert Review (Expert: Alan DeKok, Margaret Cullen)
Values for RADIUS Attribute 72, ARAP-Zone-Access	RFC 2869 , RFC 3575 Expert Review (Expert: Alan DeKok, Margaret Cullen)
Values for RADIUS Attribute 76, Prompt	RFC 2869 , RFC 3575 Expert Review (Expert: Alan DeKok, Margaret Cullen)

Real Time Streaming Protocol (RTSP)/1.0 Parameters

RTSP/1.0 Headers	RFC 2326 Standards Document, preferably an IETF RFC
RTSP/1.0 Methods	RFC 2326 Standards Action
RTSP/1.0 Option Tags	RFC 2326 Specification Required (Expert: Unassigned)
RTSP/1.0 Status Codes	RFC 2326 Standards Action

Real-time Inter-network Defense (RID)

RID Enumeration List	RFC 6545 Expert Review (Expert: Unassigned)
XML Schemas Exchanged via RID	RFC 6545 Specification Required (Expert: Unassigned)

Real-Time Streaming Protocol (RTSP) 2.0 Parameters

Accept-Credentials Hash Algorithms	RFC 7826 Standards Action
Accept-Credentials Policies	RFC 7826 Standards Action
Cache-Control Cache Directive Extensions	RFC 7826 Standards Action or IESG Approval
Feature-tags	RFC 7826 First Come First Served
Media Properties	RFC 7826 Specification Required (Expert: Martin Stiemerling)
Notify-Reason Values	RFC 7826 Specification Required (Expert: Martin Stiemerling)

Range Header Formats	RFC 7826 Specification Required (Expert: Martin Stiemerling)
RSTP 2.0 Headers	RFC 7826 Expert Review (Expert: Martin Stiemerling)
RTP-Info Header Parameters	RFC 7826 Specification Required (Expert: Martin Stiemerling)
RTSP 2.0 Methods	RFC 7826 Standards Action
RTSP 2.0 Status Codes	RFC 7826 IETF Review
Seek-Style Policies	RFC 7826 Specification Required (Expert: Martin Stiemerling)
Terminate-Reason Header Parameters	RFC 7826 Specification Required (Expert: Martin Stiemerling)
Terminate-Reason Redirect Reasons	RFC 7826 Expert Review (Expert: Martin Stiemerling)
Transport Modes	RFC 7826 Standards Action
Transport Parameters	RFC 7826 Specification Required (Expert: Martin Stiemerling)
Transport Protocol Identifier	RFC 7826 Specification Required (Expert: Martin Stiemerling)
Real-Time Transport Protocol (RTP) Parameters	
EKT Ciphers	RFC 8870 Specification Required (Expert: Unassigned)
EKT Message Types	RFC 8870 Specification Required (Expert: Unassigned)
FMT Values for PSFB Payload Types	RFC 4585 Specification Required (Expert: Magnus Westerlund, I Even)
FMT Values for RTPFB Payload Types	RFC 4585 Specification Required (Expert: Magnus Westerlund, I Even)
RAMS Response Code Space Registry	RFC 6285 1xx: Informational. 2xx: Success. 3xx: Redirection. 4xx: RTP Receiver (RTP_Rx) Error. 5xx: Burst/Retransmission Source (BRS) Error. Specification Required (Expert: Unassigned)
RAMS TLV Space Registry	RFC 6285 Specification Required (Expert: Unassigned)
RTCP Control Packet Types (PT)	RFC 5761, RFC 3550 1-191: Specification Required or Expert Review. 194-199: Specification Required or Expert Review. 200-223: Specification Required or Expert Review. 224-254: Specification Required or Expert Review. (Expert: Magnus Westerlund)
RTP Compact Header Extensions	RFC 8285 Expert Review (Expert: Magnus Westerlund)
RTP Payload Format Media Types	RFC 4855, RFC 9751 Registry closed
RTP Payload Types (PT) for standard audio and video encodings - Closed	RFC 3551 Registry closed; see RFC 3551 , Section 3
RTP Profile Names	RFC 3550 Standards Action or Expert Review (Expert: Unassigned)

RTP SDP Compact Header Extensions	RFC 7941 Expert Review (Expert: Magnus Westerlund)
RTP SDP Item Types	RFC 3550 Specification Required or Expert Review (Expert: Magnus Westerlund)
SFMT Values for RAMS Messages	RFC 6285 Specification Required (Expert: Unassigned)
SMT Values for TOKEN Packet Type Registry	RFC 6284 IETF Review
Sub-Report Block Type (SRBT) Values for the RSI Packet	RFC 5760 Specification Required (Expert: Unassigned)

Realm Specific IP (RSIP) Parameters

RSIP Address Types	RFC 3103 0: Reserved. 1-240: Specification Required. 241-255: Private Use. (Expert: Unassigned)
RSIP Error Codes	RFC 3103 Specification Required (Expert: Unassigned)
RSIP Local Flow Policies	RFC 3103 0: Reserved. 1-240: Specification Required. 241-255: Private Use. (Expert: Unassigned)
RSIP Message Types	RFC 3103 0: Reserved. 1-240: Specification Required. 241-255: Private Use. (Expert: Unassigned)
RSIP Methods	RFC 3103 0: Reserved. 1-240: Specification Required. 241-255: Private Use. (Expert: Unassigned)
RSIP Parameters	RFC 3103 0: Reserved. 1-240: Specification Required. 241-255: Private Use. (Expert: Unassigned)
RSIP Remote Flow Policies	RFC 3103 0: Reserved. 1-240: Specification Required. 241-255: Private Use. (Expert: Unassigned)
RSIP Tunnel Types	RFC 3103 0: Reserved. 1-240: Specification Required. 241-255: Private Use. (Expert: Unassigned)
RSIP Vendor IDs	RFC 3103 0: Reserved. 1-240: Specification Required. 241-255: Private Use. (Expert: Unassigned)

Realtime Traffic Flow Measurement (RTFM)

Pattern Matching Engine (PME) Opcodes	RFC 2722 IETF Review
RTFM Attributes	RFC 2722 0-511: IETF Review.

512-1023: First Come First Served.
1024 and above: Reserved for Private Use.

Registrar IDs

Registrar IDs

Assigned by ICANN

Registration Data Access Protocol (RDAP)

Bootstrap Service Registry for AS Number Space	RFC 9224
Bootstrap Service Registry for Domain Name Space	RFC 9224
Bootstrap Service Registry for IPv4 Address Space	RFC 9224
Bootstrap Service Registry for IPv6 Address Space	RFC 9224
Bootstrap Service Registry for Provider Object Tags	RFC 8521
RDAP Extensions	RFC 7480 Specification Required (Expert: Jasdip Singh, Scott Hollenbeck)
RDAP JSON Values	RFC 9083 , RFC 9537 Expert Review (Expert: Jasdip Singh, Scott Hollenbeck)
RDAP Provider Object Tags	RFC 8521 First Come First Served
RDAP Reverse Search	RFC 9536 Specification Required (Expert: Jasdip Singh, Scott Hollenbeck)
RDAP Reverse Search Mapping	RFC 9536 Specification Required (Expert: Jasdip Singh, Scott Hollenbeck)
Registration Data Access Protocol (RDAP) Query Purpose Values	RFC 9560 Specification Required (Expert: Scott Hollenbeck, And Newton, Mario Loffredo, Pawel Kowalik, Jasdip Singh)

Registry for the Session Initiation Protocol (SIP) NAPTR Resource Record Services Field

SIP Table of Mappings From Service Field Values to Transport Protocols	RFC 3263 Standards Action
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Relay User Equipment (RUE)

RUE Provider List	RFC 9248 Expert Review (Expert: Brian Rosen)
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Reliable Multicast Transport (RMT) FEC Encoding IDs and FEC Instance IDs

FEC Framework (FECFRAME) FEC Encoding IDs	RFC 6363 IETF Review
ietf:rmt:fec:encoding - Fully-Specified FEC schemes (0-127)	RFC 5052 IETF Review
ietf:rmt:fec:encoding - Under-Specified FEC schemes (128-255)	RFC 5052 IETF Review

Reliable Server Pooling (RSerPool) Parameters

Aggregate Server Access Protocol (ASAP) Message Types	RFC 5352 Specification Required (Expert: Unassigned)
Endpoint Handlespace Redundancy Protocol (ENRP) Message Types	RFC 5353 Specification Required (Expert: Unassigned)
RSerPool Error Causes	RFC 5354 Specification Required (Expert: Unassigned)
RSerPool Parameter Types	RFC 5354 Specification Required (Expert: Unassigned)

RSerPool Policy Types	RFC 5356 Specification Required (Expert: Unassigned)
Update Action Types	RFC 5353 Specification Required (Expert: Unassigned)
Remote Attestation Procedures (RATS)	
Entity Attestation Token (EAT) Intended Uses	RFC 9711 Expert Review (Expert: Giridhar Mandyam, Jeremy O'Donoghue)
RATS Conceptual Message Wrapper (CMW) Indicators	draft-ietf-rats-msg-wrap-22 IETF Review
Remote Direct Data Placement	
RDMA-CM Private Data Identifiers	RFC 8797 Specification Required (Expert: Chuck Lever (primary) Talpey (secondary))
Remote Direct Data Placement (RDDP)	
DDP Errors	RFC 6580 Standards Action
MPA Errors	RFC 6580 Standards Action
RDMA DDP Untagged Queue Numbers	RFC 7306 Standards Action
RDMA DDP Errors	RFC 6580 Standards Action
RDMA Message Atomic Operation Subcodes	RFC 7306 Standards Action
RDMA Message Operation Codes	RFC 6580 Standards Action
SCTP Function Codes for DDP Stream Session Control	RFC 6580 Standards Action
Remote Framebuffer (RFB)	
Remote Framebuffer Client-to-Server Message Types	RFC 6143 Expert Review (Expert: Tristan Richardson)
Remote Framebuffer Encoding Types	RFC 6143 Expert Review (Expert: Tristan Richardson, John Levin)
Remote Framebuffer Security Types	RFC 6143 Expert Review (Expert: Tristan Richardson)
Remote Framebuffer Server-to-Client Message Types	RFC 6143 Expert Review (Expert: Tristan Richardson)
Remote Procedure Call (RPC)	
Network Identifier (r_netid)	RFC 7530 Informational RFC
ONC RPC Netids (First Come First Served)	RFC 5665 First Come First Served
ONC RPC Netids (Standards Action)	RFC 5665 Standards Action
ONC RPC Uaddr Format Registry	RFC 5665 First Come First Served or Standards Action
Protocol family (r_nc_protomly)	RFC 1833 Standards Action
Protocol name (r_nc_proto)	RFC 1833 Standards Action
RPC Authentication Flavor Numbers	RFC 5531 First Come First Served

RPC Authentication Status Numbers	RFC 5531 First Come First Served
RPCSEC_GSS Structured Privilege Names Registry	RFC 7861 Standards Action
Transport semantics (r_nc_semantics)	RFC 1833 Standards Action

Remote Procedure Call (RPC) Program Numbers

RPC Program Numbers	RFC 5531 Up to 100 numbers: First Come First Served. 101-1000 numbers: Specification Required. More than 1000 numbers: IESG Approval. (Expert: Unassigned)
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Reputation Parameters

Reputation Applications	RFC 7071 IETF Review or Specification Required (Expert: Unassi
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Reserved IPv6 Interface Identifiers

Reserved IPv6 Interface Identifiers	RFC 5453, RFC 7136 Standards Action
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REsource LOcation And Discovery (RELOAD)

CoAP Usage for RELOAD Access Control Policy	RFC 7650 Specification Required (Expert: Unassigned)
RELOAD Access Control Policies	RFC 6940 Standards Action
RELOAD Application-ID	RFC 6940 1-32767: Standards Action. 32768-61440: Expert Review. (Expert: Marc Petit-Huguenin (primary), Cullen Jennin (secondary))
RELOAD Data Kind-ID	RFC 6940 0x00000001-0x7fffffff: Standards Action. 0x80000000-0xf0000000: Expert Review. (Expert: Marc Petit-Huguenin (primary), Cullen Jennin (secondary))
RELOAD Data Model	RFC 6940 Standards Action
RELOAD Diagnostic Kind ID	RFC 7851 Standards Action
RELOAD Diagnostics Flag	RFC 7851 Standards Action
RELOAD Error Codes	RFC 6940 Standards Action
RELOAD Extensions Registry	RFC 6940 Specification Required (Expert: Marc Petit-Huguenin (primary), Cullen Jennings (secondary))
RELOAD Forwarding Option Registry	RFC 6940 01-127: Standards Action. 128-254: Specification Required. (Expert: Marc Petit-Huguenin (primary), Cullen Jennin (secondary))
RELOAD Message Codes	RFC 6940 Standards Action
RELOAD Overlay Algorithm Types	RFC 6940 IETF Review
RELOAD Overlay Link Protocol Registry	RFC 6940 Standards Action
RELOAD Overlay Link Registry	RFC 6940 Standards Action

RELOAD Probe Information Type Registry	RFC 6940 Standards Action
RELOAD Services Registry	RFC 7374 Specification Required (Expert: Unassigned)
Resource Public Key Infrastructure (RPKI)	
BGPsec Algorithm Suites	RFC 8608 Standards Action
BGPsec Capability	RFC 8205 Standards Action
BGPsec_Path Flags	RFC 8205 Standards Action
RPKI Repository Name Schemes	RFC 6481 IETF Review
RPKI Signed Objects	RFC 6488 Standards Action
rпки-rtr-afi	draft-ietf-sidrops-8210bis-10 Expert Review (Expert: Unassigned)
rпки-rtr-error	RFC 6810 Expert Review (Expert: Keyur Patel (Primary), John G. (Secondary))
rпки-rtr-pdu	RFC 6810 RFC Required (Standards Track or Experimental)
Resource Reservation Protocol (RSVP) Parameters	
Call Attributes Flags	RFC 6001 RFC Required
Call Attributes TLV	RFC 6001 RFC Required
Capability Object values	RFC 5063 Standards Action
Class Names, Class Numbers, and Class Types	RFC 3936 0-119: Standards Action. 120-123: Expert Review. 124-127: Reserved for Private Use. 128-183: Standards Action. 184-187: Expert Review. 188-191: Reserved for Private Use. 192-247: Standards Action. 248-251: Expert Review. 252-255: Reserved for Private Use. (Expert: Dimitri Papadimitriou)
CONDITIONS Object Flags	RFC 9705 IETF Review
Error Codes and Globally-Defined Error Value Sub-Codes	RFC 3936 0-239: Standards Action. 240-251: Expert Review. 252-255: Reserved for Private Use. (Expert: Dimitri Papadimitriou)
Interface Id Error specification	
Message Types	RFC 3936 0-239: Standards Action. 240-255: Expert Review. (Expert: Dimitri Papadimitriou)
VCAT Elementary Signal Registry	RFC 6344 IETF Review
VCAT VCG Operation Actions	RFC 6344 IETF Review

Virtual Destination Ports	RFC 2207 0: Reserved. 1-10: Reserved. 11-8191: Not Defined. 8192-65535: Dynamic.
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Resource Reservation Protocol-Traffic Engineering (RSVP-TE) Parameters

Attribute Flags	RFC 5420, RFC 7570 IETF Review
Attributes TLV Space	RFC 5420, RFC 7570 IETF Review
Record Route Object Sub-object Flags	RFC 3209 Standards Action
RTM_SET Object Sub-Object Types	RFC 8169 0-127: IETF Review. 128-191: First Come First Served.
Session Attribute Object Flags	RFC 4859 IETF Review
Sub-TLV Types for WSON Processing Hop Attribute TLV	RFC 7689 Standards Action or Specification Required (Expert: Unassigned)
Values for Wavelength Assignment Method field in WavelengthSelection Sub-TLV	RFC 7689 Standards Action or Specification Required (Expert: Unassigned)

Resource-Oriented Lightweight Information Exchange (ROLIE) URN Parameters

ROLIE Information Types	RFC 8322 Specification Required (Expert: David Waltermire, Ste Banghart)
ROLIE URN Parameters	RFC 8322 Specification Required (Expert: David Waltermire, Ste Banghart)

RESTCONF Capability URNs

RESTCONF Capability URNs	RFC 8040 IETF Review
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RObust Header Compression (ROHC) Profile Identifiers

Profile Identifiers	RFC 5795 Specification Required (Expert: Unassigned)
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RObust Header Compression (ROHC) Suboption Identifier Values

ROHC Configuration Option Suboption Identifier Values	RFC 3241 0-127: Standards Action. 128-254: Specification Required. (Expert: Unassigned)
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Route Distinguisher Type Field

Route Distinguisher Type Field	RFC 4364 0-32767: First Come First Served. 32768-65535: IETF Review.
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Routing in Fat Trees (RIFT)

RIFT Security Algorithms	RFC 9692 Specification Required (Expert: Pascal Thubert, Tony Przygienda)
RIFT Well-Known Key Sub-Types	draft-ietf-rift-kv-tie-structure-and-processing-09 Expert Review (Expert: Unassigned)
RIFTCommonAddressFamilyType	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)

RIFTCommonHierarchyIndications	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTCommonIEEE8021ASTimeStampType	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTCommonIPAddressType	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTCommonIPPrefixType	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTCommonIPv4PrefixType	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTCommonIPv6PrefixType	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTCommonKVTypes	RFC 9692, draft-ietf-rift-kv-tie-structure-and-processir Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTCommonPrefixSequenceType	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTCommonRouteType	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTCommonTieDirectionType	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTCommonTIETypeType	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTEncodingCommunity	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTEncodingKeyValueTIEElement	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTEncodingKeyValueTIEElementContent	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTEncodingLIEPacket	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)

RIFTEncodingLinkCapabilities	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTEncodingLinkIDPair	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTEncodingNeighbor	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTEncodingNodeCapabilities	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTEncodingNodeFlags	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTEncodingNodeNeighborsTIEElement	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTEncodingNodeTIEElement	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTEncodingPacketContent	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTEncodingPacketHeader	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTEncodingPrefixAttributes	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTEncodingPrefixTIEElement	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTEncodingProtocolPacket	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTEncodingTIDEPacket	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTEncodingTIEElement	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTEncodingTIEHeader	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)

RIFTEncodingTIEHeaderWithLifeTime	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTEncodingTIEID	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTEncodingTIEPacket	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTEncodingTIREPacket	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)
RIFTVersions	RFC 9692 Minor change (per RFC9692, Section 7): Expert Review All other allocations: Specification Required. (Expert: Pascal Thubert, Tony Przygienda)

Routing Information Protocol (RIP) Parameters

RIP Address Family Identifiers	RFC 1058 Not defined
RIP Authentication Type	RFC 1388 Not defined
RIP Commands	RFC 1723 Not defined
RIP Update Headers	RFC 1058 Not Defined
RIPNG Commands	RFC 2080 Not defined
RIPNG Update Headers	RFC 2080 Not defined

Routing Protocol for Low Power and Lossy Networks (RPL)

Consistency Check (CC) Flags	RFC 6550 IETF Review
Destination Advertisement Object (DAO) Acknowledgment Flags	RFC 6550 IETF Review
Destination Advertisement Object (DAO) Flags	RFC 6550 IETF Review
Destination Cleanup Object (DCO) Flags	RFC 9009 IETF Review
Destination Cleanup Object Acknowledgment (DCO) Acknowledgment Flags	RFC 9009 IETF Review
DODAG Configuration Option Flags for MOP 0..6	RFC 6550, RFC 9008 IETF Review
DODAG Information Object (DIO) Flags	RFC 6550 IETF Review
DODAG Informational Solicitation (DIS) Flags	RFC 6550 IETF Review
Mode of Operation	RFC 6550, RFC 9008 IETF Review
Objective Code Point (OCP)	RFC 6550 IETF Review
PDR-ACK Acceptance Status Values	draft-ietf-roll-dao-projection-40 Standards Action

PDR-ACK Flags	draft-ietf-roll-dao-projection-40 Standards Action
PDR-ACK Rejection Status Values	draft-ietf-roll-dao-projection-40 Standards Action
Per-KIM Security Levels	RFC 6550 IETF Review
Projected DAO Request (PDR) Flags	draft-ietf-roll-dao-projection-40 Standards Action
RPL Control Codes	RFC 6550 IETF Review
RPL Control Message Options	RFC 6550 IETF Review
RPL Non-Rejection Status	RFC 9010 IETF Review
RPL Option Flags	draft-ietf-roll-dao-projection-40 Standards Action
RPL Rejection Status	RFC 9010 IETF Review
RPL Target Option Flags	RFC 6550, RFC 9010 IETF Review
Security Section Algorithm	RFC 6550 IETF Review
Security Section Flags	RFC 6550 IETF Review
Sibling Information Option (SIO) Flags	draft-ietf-roll-dao-projection-40 Standards Action
Solicited Information Option Flags	RFC 6550 IETF Review
Transit Information Option Flags	RFC 6550 IETF Review
Via Information Options (VIO) Flags	draft-ietf-roll-dao-projection-40 Standards Action

Routing Protocol for Low Power and Lossy Networks (RPL) Routing Metric/Constraint

Hop-Count Object Flag field	RFC 6551 IETF Review
Node Type Field	RFC 6551 IETF Review
NSA Object Flag field	RFC 6551 IETF Review
Routing Metric/Constraint Common Header A field	RFC 6551 IETF Review
Routing Metric/Constraint Common Header Flag field	RFC 6551 IETF Review
Routing Metric/Constraint TLVs	RFC 6551 First Come First Served
Routing Metric/Constraint Type	RFC 6551 IETF Review

RSVP-TE OAM Configuration Registry

BFD Configuration Sub-TLV Types	RFC 7487 IETF Review
Ethernet Sub-TLVs Sub-Registry	RFC 7369 IETF Review
MPLS OAM Configuration Sub-TLV Types	RFC 7487 IETF Review

OAM Function Flags Sub-Registry	RFC 7260 IETF Review
OAM Sub-TLVs	RFC 7260 0-31: IETF Review. 32-65533: IETF Review. 65534-65535: Reserved for Experimental Use.
OAM Types	RFC 7260 IETF Review
Performance Monitoring Sub-TLV Types	RFC 7487 IETF Review

RTP Control Protocol Extended Reports (RTCP XR) Block Type Registry

IDMS XR Block SPST Registry	RFC 7272 Specification Required (Expert: Roni Even)
RTCP XR Block Type	RFC 3611 Specification Required (Expert: Joerg Ott)
RTCP XR MOS Metric block - multimedia application Calculation Algorithm	RFC 7266 Specification Required (Expert: Roni Even)
RTCP XR PDV block - PDV type	RFC 6798 Specification Required (Expert: Roni Even)

RTP Control Protocol Extended Reports (RTCP XR) Session Description Protocol (SDP) Parameters R

RTCP XR SDP Parameters	RFC 3611 Specification Required (Expert: Joerg Ott)
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Scalable Adaptive Multicast (SAM) Baseline

SAM ALM Algorithm IDs	RFC 7019 Expert Review (Expert: Marc Petit-Huguenin (primary Thomas Schmidt, John Buford)
SAM ALM Error Codes	RFC 7019 Expert Review (Expert: Marc Petit-Huguenin (primary Thomas Schmidt, John Buford)
SAM ALM Message Codes	RFC 7019 Expert Review (Expert: Marc Petit-Huguenin (primary Thomas Schmidt, John Buford)

Secret Key Transaction Authentication for DNS (TSIG) Algorithm Names

TSIG Algorithm Names	RFC 8945 IETF Review
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Secure Shell (SSH) Protocol Parameters

Authentication Method Names	RFC 4250, RFC 9519 Expert Review (Expert: Peter Yee, Markus Stenberg)
Channel Connection Failure Reason Codes and Descriptions	RFC 4250, RFC 9519 0x00000001-0xFDFFFFFF: Expert Review. 0xFE000000-0xFFFFFFFF: Reserved for Private Use. (Expert: Peter Yee, Markus Stenberg)
Compression Algorithm Names	RFC 4250, RFC 9519 Expert Review (Expert: Peter Yee, Markus Stenberg)
Connection Protocol Channel Request Names	RFC 4250, RFC 9519 Expert Review (Expert: Peter Yee, Markus Stenberg)
Connection Protocol Channel Types	RFC 4250, RFC 9519 Expert Review (Expert: Peter Yee, Markus Stenberg)
Connection Protocol Global Request Names	RFC 4250, RFC 9519 Expert Review (Expert: Peter Yee, Markus Stenberg)
Connection Protocol Subsystem Names	RFC 4250, RFC 9519 Expert Review (Expert: Peter Yee, Markus Stenberg)
Disconnection Messages Reason Codes and Descriptions	RFC 4250, RFC 9519 0x00000001-0xFDFFFFFF: Expert Review.

	0xFE000000-0xFFFFFFFF: Reserved for Private Use. (Expert: Peter Yee, Markus Stenberg)
Encryption Algorithm Names	RFC 4250 , RFC 9519 Expert Review (Expert: Peter Yee, Markus Stenberg)
Extended Channel Data Transfer data_type_code and Data	RFC 4250 , RFC 9519 0x00000001-0xFDFDFDFD: Expert Review. 0xFE000000-0xFFFFFFFF: Reserved for Private Use. (Expert: Peter Yee, Markus Stenberg)
Extension Names	RFC 8308 , RFC 9519 Expert Review (Expert: Peter Yee, Markus Stenberg)
Key Exchange Method Names	RFC 4250 , RFC 9142 , RFC 9519 Expert Review (Expert: Peter Yee, Markus Stenberg)
MAC Algorithm Names	RFC 4250 , RFC 9519 Expert Review (Expert: Peter Yee, Markus Stenberg)
Message Numbers	RFC 4250 Standards Action
Pseudo-Terminal Encoded Terminal Modes	RFC 4250 , RFC 9519 Expert Review (Expert: Peter Yee, Markus Stenberg)
Public Key Algorithm Names	RFC 4250 , RFC 9519 Expert Review (Expert: Peter Yee, Markus Stenberg)
Publickey Subsystem Attributes	RFC 4819 , RFC 9519 Expert Review (Expert: Peter Yee, Markus Stenberg)
Publickey Subsystem Request Names	RFC 4819 , RFC 9519 Expert Review (Expert: Peter Yee, Markus Stenberg)
Publickey Subsystem Response Names	RFC 4819 , RFC 9519 Expert Review (Expert: Peter Yee, Markus Stenberg)
Publickey Subsystem Status Codes	RFC 4819 0-191: Standards Action. 192-255: Reserved for Private Use.
Service Names	RFC 4250 , RFC 9519 Expert Review (Expert: Peter Yee, Markus Stenberg)
Signal Names	RFC 4250 , RFC 9519 Expert Review (Expert: Peter Yee, Markus Stenberg)
SSH Public-Key File Header Tags	RFC 4716 , RFC 9519 Expert Review (Expert: Peter Yee, Markus Stenberg)
Security Event Token (SET)	
Security Event Token Error Codes	RFC 8935 Specification Required (Expert: Mike Jones, John Brad)
Subject Identifier Formats	RFC 9493 Specification Required (Expert: Prachi Jain)
Security External Enumeration Registry	
Security External Enumeration Registry	RFC 7495 Specification Required (Expert: Unassigned)
Security Label Format Selection	
Security Label Format Selection Registry	RFC 7569 Specification Required (Expert: Unassigned)
Security Parameters Index (SPI) Parameters	
Security Parameters Index (SPI)	RFC 1826 , RFC 2402 , RFC 2406 , RFC 4302 , RFC 4303 RFC Required
security.txt Fields	
security.txt Fields	RFC 9116 Expert Review (Expert: Yakov Shafranovich, Edwin Fou)
Segment Routing	
Segment Types	RFC 9256 Specification Required (Expert: Ketan Talaulikar, Matt)

	Bocci)
SR Policy ENLP Values	RFC 9830 Standards Action
SR Policy Protocol-Origin	RFC 9857 1-250: Expert Review. 251-255: Private Use. (Expert: Unassigned)
SRv6 Endpoint Behaviors	RFC 8986 0: Reserved. 1-32767: First Come First Served. 32768-34815: Private Use. 34816-65534: Reserved. 65535: Reserved.
Selective P-Multicast Service Interface (S-PMSI) Parameters	
S-PMSI Join Message Type Field	RFC 6513 IETF Review
Semantic Definition Format (SDF)	
SDF Feature Names	RFC 9880 Specification Required (Expert: Ari Keranen (primary), Michael Koster (backup))
SDF Quality Name Prefixes	RFC 9880 Expert Review (Expert: Ari Keranen (primary), Michae (backup))
SDF Quality Names	RFC 9880 Specification Required (Expert: Ari Keranen (primary), Michael Koster (backup))
sdfType Values	RFC 9880 Specification Required (Expert: Ari Keranen (primary), Michael Koster (backup))
Sender Policy Framework (SPF) Parameters	
Modifier Names	RFC 6652 Specification Required (Expert: Unassigned)
Sensor Measurement Lists (SenML)	
Secondary Units	RFC 8798 Expert Review (Expert: Ari Keränen)
SenML Features	RFC 9100 Specification Required (Expert: Ari Keränen (primary), Carsten Bormann (secondary))
SenML Labels	RFC 8428 Expert Review (Expert: Ari Keränen)
SenML Units	RFC 8428 Expert Review (Expert: Ari Keränen)
Server Cache Synchronization Protocol (SCSP) Parameters	
Protocol IDs	RFC 2334 RFC, product of standards body, or Expert Review
Service Function Chaining (SFC) Active Operations, Administration, and Maintenance (OAM)	
SF Identifier Types	RFC 9516 0-191: IETF Review. 192-251: First Come First Served. 252-254: Private Use.
SFC Active OAM Message Types	RFC 9516 0-31: IETF Review. 32-62: First Come First Served.
SFC Active OAM TLV Types	RFC 9516 0-175: IETF Review. 176-239: First Come First Served.

	240-251: Experimental Use. 252-254: Private Use.
SFC Echo Reply Modes	RFC 9516 0-175: IETF Review. 176-239: First Come First Served. 240-251: Experimental Use. 252-254: Private Use.
SFC Echo Request Flags	RFC 9516 Standards Action
SFC Echo Return Codes	RFC 9516 0-191: IETF Review. 192-251: First Come First Served. 252-254: Private Use.
SFC Echo Types	RFC 9516 0-175: IETF Review. 176-239: First Come First Served. 240-251: Experimental Use. 252-254: Private Use.
Service Function Chaining Service Function Types	
Service Function Chaining Service Function Types	RFC 9015 1-31: Standards Action. 32-64495: First Come First Served. 64496-65534: Private Use.
Service Location Protocol (SLP) Remote Service Discovery	
SLP Remote Service Discovery	RFC 3832 Expert Review (Expert: Unassigned)
Service Location Protocol Version 2 (SLPv2) Cryptographic BSD Codes	
Cryptographic BSD Codes	RFC 2608 IETF Review
Service Location Protocol Version 2 (SLPv2) Registrations	
Service Location Protocol, Version 2 (SLPv2) Templates	RFC 2609 Expert Review (Expert: Erik Guttman)
SLPv2 Extension IDs	RFC 2608 Expert Review (Expert: Erik Guttman)
Service Location Protocol, Version 2 (SLPv2) Error Numbers	
Error Numbers	RFC 2608 Standards Action
Service Location Protocol, Version 2 (SLPv2) Function IDs	
Function IDs	RFC 2608 IETF Review
Service Names and Transport Protocol Port Numbers	
Service Name and Transport Protocol Port Number Registry	RFC 6335 (Expert: TCP/UDP: Joe Touch; Eliot Lear, Kumiko Ono, Eddy, Brian Trammell, Jana Iyengar, and Michael Scha Michael Tuexen DCCP: Eddie Kohler and Yoshifumi Ni
Session Description Protocol (SDP) Parameters	
"ack" and "nack" Attribute Values	RFC 4585 , RFC 8859 First Come First Served with a permanent, stable, and publically accessible document
addrtype	RFC 8866 RFC Required
association-usage Name Registry	RFC 8841 First Come First Served
attribute-name (formerly "att-field")	RFC 8866 , RFC 8864 , RFC 8859 Specification Required (Expert: Flemming Andreassen)

bwtype	RFC 8866, RFC 8859 Standards Action
Candidate Attribute Extensions	RFC 8839 Specification Required (Expert: Christer Holmberg)
Codec Control Messages	RFC 5104, RFC 8859 Specification Required (Expert: Stephan Wenger)
content SDP Parameters	RFC 4796, RFC 8859 Specification Required (Expert: Christer Holmberg)
"cs-correlation" Attribute Values	RFC 7195, RFC 8859 Specification Required (Expert: Bo Burman)
"depend" SDP Attribute Values	RFC 5583, RFC 8859 Specification Required (Expert: Stephan Wenger)
enckey	RFC 8866 REGISTRY OBSOLETE - No further registrations accepted
Key Methods	RFC 4568 Standards Action
media	RFC 8866 Standards Action
Media Clock Source Parameters	RFC 7273, RFC 8859 Specification Required (Expert: Magnus Westerlund)
Media Stream Transports	RFC 4568 Standards Action
Multiplexing Categories	RFC 8859 Standards Action
nettype	RFC 8866 RFC Required
proto	RFC 8866 RFC Required
QoS Mechanism Tokens	RFC 5432, RFC 8859 Specification Required (Expert: Christer Holmberg)
RID Attribute Parameters	RFC 8851 Specification Required (Expert: Adam Roach)
"rtcp-fb" Attribute Values	RFC 4585, RFC 8859 First Come First Served with permanent, stable, and publicly accessible document.
SDP Capability Negotiation Configuration Parameters Registry	RFC 5939, RFC 6871 IETF Review
SDP Capability Negotiation Option Tags	RFC 5939, RFC 8859 IETF Review
SDP/RTSP key management protocol identifiers	RFC 4567, RFC 8859 Specification Required (Expert: Magnus Westerlund)
Semantics for the "group" SDP Attribute	RFC 5888, RFC 8859 Standards Action
Semantics for the "ssrc-group" SDP Attribute	RFC 5576, RFC 8859 Standards Action
SRTP Crypto Suite Registrations	RFC 4568 Standards Action
SRTP Session Parameters	RFC 4568 Standards Action
Timestamp Reference Clock Source Parameters	RFC 7273, RFC 8859 Specification Required (Expert: Magnus Westerlund)
Session Initiation Protocol (SIP) Common Log Format (CLF) Parameters	
SIP CLF Transport Flag Values	RFC 6873 IETF Review

SIP CLF Version Values	RFC 6873 Standards Action
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Session Initiation Protocol (SIP) Event Types Namespace

Event packages and Event template-packages	RFC 3427 , RFC 6665 , RFC 5727 event template packages: Standards Action. event packages: RFC Required with Designated Expert (Expert: Adam Roach)
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Session Initiation Protocol (SIP) Parameters

Compression Schemes	RFC 3486 Standards Action
Geolocation-Error Codes	RFC 6442 Specification Required (Expert: Unassigned)
Global Feature-Capability Indicator Registration Tree	RFC 6809 Specification Required (Expert: Paul Kyzivat (primary) Christer Holmberg (secondary))
Header Field Parameters and Parameter Values	RFC 3968 IETF Review
Header Fields	RFC 3261 , RFC 5727 Informational Header: Expert Review. Standard Header: Standards Action. (Expert: Adam Roach)
Identity Parameters	RFC 8224 Standards Action
Identity-Info Algorithm Parameter Values	RFC 8224 Deprecated and closed per RFC8224
Info Packages Registry	RFC 6086 Specification Required (Expert: Adam Roach)
Methods and Response Codes	RFC 3261 , RFC 5727 Standards Action
Option Tags	RFC 3261 , RFC 5727 Standards Action
Precondition Types Used with SIP	RFC 4032 , RFC 3312 Standards Action
Preemption Namespaces	RFC 4411 Standards Action
Priority Header Field Values	RFC 6878 IETF Review
Proxy-Feature Feature-Capability Indicator Trees	RFC 6809 Standards Action
Push Notification Service (PNS)	RFC 8599 Specification Required (Expert: Christer Holmberg)
Reason Codes	RFC 6665 Standards Action
Reason Protocols	RFC 3326 Specification Required (Expert: Christer Holmberg)
Resource-Priority Namespaces	RFC 4412 , RFC 7134 IETF Review
Resource-Priority Priority-values	RFC 4412 , RFC 7134 IETF Review
Response Codes	RFC 3261 RFC Required
Security Mechanism Names	RFC 3329 IETF Review
Service-ID/Application-ID Labels	RFC 6050 Specification Required (Expert: Unassigned)

SIP AlertMsg-Error Codes	RFC 8876 Specification Required (Expert: Brian Rosen)
SIP Configuration Profile Types	RFC 6080 Specification Required (Expert: Unassigned)
SIP Feature-Capability Indicator Registration Tree	RFC 6809 IETF Review
SIP Forum User Agent Configuration Parameters	RFC 6011 begins with 'sfua-': RFC Required. all other names: First Come First Served.
SIP Privacy Header Field Values	RFC 3323 IETF Review
SIP Transport	RFC 7118 Standards Action
SIP/SIPS URI Parameters	RFC 3969 , RFC 5727 Standards Action
URI Purposes	RFC 4575 Specification Required (Expert: Unassigned)
UUI Content Parameters	RFC 7433 Standards Action
UUI Encoding Parameters	RFC 7433 Standards Action
UUI Packages	RFC 7433 Standards Action
Warning Codes (warn-codes)	RFC 3261 RFC Required

Session Initiation Protocol (SIP) Privacy Header Values

SIP Privacy Header Values	RFC 3323 IETF Review
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Session Peering Provisioning Framework (SPPF) Organization Identifier Type Namespaces

SPPF OrgIdType Namespaces	RFC 7877 RFC Required
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Session Traversal Utilities for NAT (STUN) Parameters

STUN Attributes	RFC 8489 0x0000-0x3FFF: IETF Review. 0x4000-0x7FFF: Expert Review. 0x8000-0xBFFF: IETF Review. 0xC000-0xFFFF: Expert Review. (Expert: Dan Wing)
STUN Error Codes	RFC 8489 IETF Review
STUN Methods	RFC 8489 , RFC 7983 0x000-0x07F: IETF Review. 0x080-0x0FF: Expert Review. (Expert: Dan Wing)
STUN Password Algorithms	RFC 8489 0x0000-0x7FFF: IETF Review. 0x8000-0xFFFF: Expert Review. (Expert: Dan Wing)
STUN Security Features	RFC 8489 Standards Action
Traversal Using Relays around NAT (TURN) Channel Numbers	RFC 7983 , RFC 8656 Standards Action

SFrame

SFrame Cipher Suites	RFC 9605 0-0xEFFF: Specification Required. 0-0xEFFF: Standards Action.
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0xF000-0xFFFF: Private Use.
(Expert: Richard Barnes (primary), Emad Omara (sec

Shim6 Parameters

Shim6 Error Codes	RFC 5533 Standards Action
Shim6 Options	RFC 5533 Standards Action
Shim6 Types	RFC 5533 Standards Action
Shim6 Verification Methods	RFC 5533 Standards Action

Sieve Extensions

ManageSieve Capabilities	RFC 5804 Standards Track or IESG-Approved Experimental RFC
ManageSieve Response Codes	RFC 5804 Standards Track or IESG-Approved Experimental RFC
Notification-Capability Parameters	RFC 5435 Vendor-controlled: First Come First Served. IETF-controlled: Specification Required. (Expert: Barry Leiba, Alexey Melnikov)
Sieve Actions	RFC 9122 Expert Review (Expert: Alexey Melnikov, Ken Murchis
Sieve Environment Items	RFC 5183 name begins with "vnd.": First Come First Served. standardized (no "vnd." prefix): Standards track or experimental RFC.
Sieve Extensions	RFC 5228 vendor-controlled (name begins with "vnd."): First Co Served. IETF-controlled (no "vnd." prefix): Standards track or approved experimental RFC.
Sieve Notification Mechanisms	RFC 5435 Vendor-controlled: First Come First Served. IETF-controlled: Specification Required. (Expert: Unassigned)
Sieve URN Parameters	RFC 6134 Specification Required (Expert: Unassigned)

SIG (0) Algorithm Numbers

SIG (0) Algorithm Numbers	RFC 3755 Standards Action
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Signaling Compression (SigComp) Registry

SigComp_version Namespace	RFC 3320 Standards Action
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Signaling User Adaptation Layer Assignments

Message Classes	RFC 3057 , RFC 4233 IETF Review
Message Parameters	RFC 3331 , RFC 4233 , RFC 4666 IETF Review
Message Types - ASP State Maintenance (ASPSM) Messages (Value 3)	RFC 4233 , RFC 3331 , RFC 4666 , RFC 3868 , RFC 4129 , R IETF Review
Message Types - ASP Traffic Maintenance (ASPTM) Messages (Value 4)	RFC 4233 , RFC 3331 , RFC 4666 , RFC 3868 , RFC 4129 , R IETF Review
Message Types - Connection-Oriented Messages (Value 8)	RFC 3868 IETF Review
Message Types - Connectionless Messages (Value 7)	RFC 3868 IETF Review

Message Types - DPNSS/DASS2 Boundary Primitives Transport Messages (Value 13)	RFC 4129 IETF Review
Message Types - Interface Identifier Management (IIM) Messages (Value 10)	RFC 3331 IETF Review
Message Types - M2PA Messages (Value 11)	RFC 4165 IETF Review
Message Types - Management (MGMT) Message (Value 0)	RFC 4233, RFC 3331, RFC 4666, RFC 3868, RFC 4129, R IETF Review
Message Types - MTP2 User Adaptation (MAUP) Messages (Value 6)	RFC 3331 IETF Review
Message Types - Q.921/Q.931 Boundary Primitives Transport (QPTM) Messages (Value 5)	RFC 4233 IETF Review
Message Types - Routing Key Management (RKM) Messages (Value 9)	RFC 4666 IETF Review
Message Types - Security Messages (Value 12)	RFC 3788 IETF Review
Message Types - SS7 Signalling Network Management (SSNM) Messages (Value 2)	RFC 4666, RFC 3868 IETF Review
Message Types - Transfer Messages (Value 1)	RFC 4666 IETF Review
Message Types - V5 Boundary Primitives Transport (V5PTM) Messages (Value 14)	RFC 3807 IETF Review

Simple Authentication and Security Layer (SASL) Mechanisms

SASL Mechanisms	RFC 4422 First Come First Served for mechanisms. Expert Review mailing list for family name registrations. For names beginning with "GS2-", see RFC 5801. For names beginning with "SCRAM-", see RFC7677. (Expert: Simon Josefsson)
SASL SCRAM Family Mechanisms	RFC 7677 IETF Review with mailing list

Simple Certificate Enrollment Protocol (SCEP)

SCEP CA Capabilities	RFC 8894 IETF Review
SCEP Message Types	RFC 8894 Specification Required (Expert: Peter Gutmann)

Simple Gateway Monitoring Protocol (SGMP) Vendor Specific Codes (Obsolete)

SGMP Vendor Specific Codes (Obsolete)	RFC 1028 No further registrations
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Simple Mail Transfer Protocol (SMTP) Enhanced Status Codes Registry

Class Sub-Codes	RFC 5248 Specification Required (Expert: Chris Newman)
Enumerated Status Codes	RFC 5248 Specification Required (Expert: Chris Newman)
Subject Sub-Codes	RFC 5248 Specification Required (Expert: Chris Newman)

Simple Network Management Protocol (SNMP) Number Spaces

Message Processing Models	RFC 3411 Standards Action
Security Models	RFC 3411 Standards Action
SNMP Transport Domains	RFC 2578, RFC 3417, RFC 5590 Specification Required (Expert: Unassigned)
SnmpAuthProtocols	RFC 3411 Standards Action

[SnmpEngineID Formats](#)[RFC 3411, RFC 5343](#)

1-127: Specification Required.
128-255: Enterprise-specific.
(Expert: Unassigned)

[SnmpPrivProtocols](#)[RFC 3411](#)

Standards Action

Simple Two-way Active Measurement Protocol (STAMP)[Return Path Control Code Flags](#)[RFC 9503](#)

31-12: IETF Review.
11-8: First Come First Served.
7-4: Experimental Use.
3-0: Private Use.

[Return Path Sub-TLV Types](#)[RFC 9503](#)

1-175: IETF Review.
176-239: First Come First Served.
240-251: Experimental Use.
252-254: Private Use.

[STAMP Return Codes](#)[RFC 8972](#)

1-127: IETF Review.
128-239: First Come First Served.
240-249: Experimental Use.
250-254: Private Use.

[STAMP Sub-TLV Types](#)[RFC 8972](#)

1-175: IETF Review.
176-239: First Come First Served.
240-251: Experimental Use.
252-254: Private Use.

[STAMP Synchronization Sources](#)[RFC 8972](#)

1-127: IETF Review.
128-239: First Come First Served.
240-249: Experimental Use.
250-254: Private Use.

[STAMP Timestamping Methods](#)[RFC 8972](#)

1-127: IETF Review.
128-239: First Come First Served.
240-249: Experimental Use.
250-254: Private Use.

[STAMP TLV Flags](#)[RFC 8972](#)

IETF Review

[STAMP TLV Types](#)[RFC 8972](#)

1-175: IETF Review.
176-239: First Come First Served.
240-251: Experimental Use.
252-254: Private Use.

SMTP MTA Strict Transport Security (MTA-STX)[MTA-STX Policy Fields](#)[RFC 8461](#)

Expert Review (Expert: Unassigned)

[MTA-STX TXT Record Fields](#)[RFC 8461](#)

Expert Review (Expert: Unassigned)

Snoop Datalink Types[Datalink Types](#)[RFC 3827](#)

0-26: Reserved.
27-4294967295: First Come First Served.

SOCKS Methods[SOCKS Method Values](#)[RFC 1928](#)

IESG Approval

Software ID Values[Software ID Entity Role Values](#)[RFC 9393](#)

0-127: Standards Action with Expert Review.

	128-255: Specification Required. (Expert: Charles Schmidt, Jessica Fitzgerald-McKay, H Birkholz)
Software ID Link Ownership Values	RFC 9393 0-127: Standards Action with Expert Review. 128-255: Specification Required. (Expert: Charles Schmidt, Jessica Fitzgerald-McKay, H Birkholz)
Software ID Link Relationship Values	RFC 9393 0-32767: Standards Action with Expert Review. 32768-65535: Specification Required. (Expert: Charles Schmidt, Jessica Fitzgerald-McKay, H Birkholz)
Software ID Link Use Values	RFC 9393 0-127: Standards Action with Expert Review. 128-255: Specification Required. (Expert: Charles Schmidt, Jessica Fitzgerald-McKay, H Birkholz)
Software ID Version Scheme Values	RFC 9393 0-16383: Standards Action with Expert Review. 16384-65535: Specification Required. (Expert: Charles Schmidt, Jessica Fitzgerald-McKay, H Birkholz)

Software Update for the Internet of Things (SUIT)

COSE SUIT Algorithm Profiles	draft-ietf-suit-mti-23 Standards Action
SUIT Commands	draft-ietf-suit-manifest-34 less than -255: Private Use. -255 to 255: Standards Action. greater than 255: Specification Required. (Expert: Brendan Moran, Hannes Tschofenig)
SUIT Common Elements	draft-ietf-suit-manifest-34 less than -255: Private Use. -255 to 255: Standards Action. greater than 255: Specification Required. (Expert: Brendan Moran, Hannes Tschofenig)
SUIT Component Text Values	draft-ietf-suit-manifest-34 less than -255: Private Use. -255 to 255: Standards Action. greater than 255: Specification Required. (Expert: Brendan Moran, Hannes Tschofenig)
SUIT Envelope Elements	draft-ietf-suit-manifest-34 less than -255: Private Use. -255 to 255: Standards Action. greater than 255: Specification Required. (Expert: Brendan Moran, Hannes Tschofenig)
SUIT Manifest Elements	draft-ietf-suit-manifest-34 less than -255: Private Use. -255 to 255: Standards Action. greater than 255: Specification Required. (Expert: Brendan Moran, Hannes Tschofenig)
SUIT Parameters	draft-ietf-suit-manifest-34 less than -255: Private Use. -255 to 255: Standards Action. greater than 255: Specification Required. (Expert: Brendan Moran, Hannes Tschofenig)
SUIT Text Values	draft-ietf-suit-manifest-34 less than -255: Private Use. -255 to 255: Standards Action. greater than 255: Specification Required. (Expert: Brendan Moran, Hannes Tschofenig)

SUIT_Capability_Report Elements	draft-ietf-suit-report-19 -4294967296 to -65537: First Come First Served. -65536 to -257: Specification Required. -256 to 255: Standards Action With Expert Review. 256 to 65535: Specification Required. 65536 to 4294967295: First Come First Served. (Expert: Unassigned)
SUIT_Record Elements	draft-ietf-suit-report-19 -4294967296 to -65537: First Come First Served. -65536 to -257: Specification Required. -256 to 255: Standards Action With Expert Review. 256 to 65535: Specification Required. 65536 to 4294967295: First Come First Served. (Expert: Unassigned)
SUIT_Report Elements	draft-ietf-suit-report-19 -4294967296 to -65537: First Come First Served. -65536 to -257: Specification Required. -256 to 255: Standards Action With Expert Review. 256 to 65535: Specification Required. 65536 to 4294967295: First Come First Served. (Expert: Unassigned)
SUIT_Report Reasons	draft-ietf-suit-report-19 -4294967296 to -65537: First Come First Served. -65536 to -257: Specification Required. -256 to 255: Standards Action With Expert Review. 256 to 65535: Specification Required. 65536 to 4294967295: First Come First Served. (Expert: Unassigned)
Special People Numbers Registry (SPNR)	
Special People Numbers Registry	Not an IETF Registry. Contact IANA
Special-Purpose Autonomous System (AS) Numbers	
Special-Purpose AS Numbers	RFC 7249 IETF Review
Special-Use Domain Names	
Special-Use Domain Names	RFC 6761 Standards Action or IESG Approval
STARTTLS Validation Result Types	
STARTTLS Validation Result Types	RFC 8460 Expert Review (Expert: Alexander Brotman, Daniel M: Viktor Dukhovni)
Straightforward-NAPTR (S-NAPTR) Parameters	
S-NAPTR Application Protocol Tags	RFC 3958 , RFC 4848 Specification Required in form of an RFC (Expert: Jour Korhonen)
S-NAPTR Application Service Tags	RFC 3958 , RFC 4848 Specification Required in form of an RFC (Expert: Jour Korhonen)
Stream Control Transmission Protocol (SCTP) Parameters	
Adaptation Code Points	RFC 5061 IETF Review
Chunk Flags	RFC 9260 RFC Required
Chunk Parameter Types	RFC 9260 IETF Review
Chunk Types	RFC 9260 IETF Review
Error Cause Codes	RFC 9260 Specification Required (Expert: Michael Tuexen, Rand

	Stewart)
Error Detection Methods	RFC 9653 Specification Required (Expert: Michael Tuexen, Magr Westerlund)
Hashed Message Authentication Code (HMAC) Identifiers	RFC 4895 Specification Required (Expert: Unassigned)
SCTP Payload Protocol Identifiers	RFC 9260 First Come First Served

Stringprep Profiles

Stringprep Profiles	RFC 3454 IETF Review
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Structure of Management Information (SMI) Numbers (MIB Module Registrations)

Interface Types (ifType)	RFC 1213 , RFC 2863 , RFC 7224 , RFC 8892 Expert Review (Expert: Dave Thaler (primary), Dan Romascanu (secondary))
Internet-standard MIB - Mail Monitoring	
Internet-standard MIB - Network Services Monitoring	
IPFIX-SELECTOR-MIB Functions	RFC 6615 Expert Review (Expert: Unassigned)
MIB - Remote Network Monitoring	RFC 2819 , RFC 3737 Standards Action
Private Enterprise Numbers (PENS)	RFC 9371 First Come First Served
SMI Experimental Codes	RFC 4181 , RFC 2578 , RFC 1155 Experimental RFC
SMI Features	RFC 2506 Not Defined ?
SMI mail Codes	Not Defined ?
SMI mib-2 snanauMIB Codes	RFC 1666 Not Defined ?
SMI Network Management Directory Codes	
SMI Network Management MGMT Codes	RFC 2578 Not Defined ?
SMI pib PIB Codes	RFC 3159 Standards Action
SMI Private Codes	RFC 2578 Not Defined
SMI Security Codes (including S/MIME, PKIX and LTANS)	Not Defined ?
SMI Security for Cryptographic Algorithms	RFC 8411 Specification Required (Expert: Russ Housley (primary), Turner (secondary))
SMI Security for Name System Designators Codes (nametypes)	Not Defined ?
SMI Security for PKIX Relative Distinguished Name Attribute	draft-ietf-lamps-x509-alg-none-10 Specification Required (Expert: Unassigned)
SMI Security Services Codes	IETF Review
SMI SNMPv2 Codes	RFC 2578 , RFC 1902 IETF Review
SNMP Management Architecture - Message Processing Subsystem (SnmplibMessageProcessingModel)	

SNMP Management Architecture - Security Subsystem (SnmpSecurityModel)

SNMP-TLSTM HashAlgorithms	RFC 9456 Expert Review (Expert: Russ Housley, Sean Turner)
spdActions	RFC 4807 Specification Required (Expert: Wes Hardaker)
Transmission Number Values	RFC 1213 , RFC 8892 Specification Required (Expert: Dave Thaler (primary) Romascanu (secondary))
Tunnel Types (tunnelType)	RFC 4087 , RFC 8675 , RFC 8892 Expert Review (Expert: Dave Thaler (primary), Dan Romascanu (secondary))

Structured Data Exchange Format (SDXF)

Compression Methods for SDXF	RFC 3072 RFC or equivalent
Encryption Methods for SDXF	RFC 3072 RFC or equivalent

Subsequent Address Family Identifiers (SAFI) Parameters

SAFI Values	RFC 4760 1-63: Standards Action. 64-127: First Come First Served. 128-240: Some recognized assignments below, other Reserved. 241-254: Reserved for Private Use.
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SUN Remote Procedure Call (RPC) Numbers - Obsolete

SUN RPC Numbers	RFC 1831
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syslog Parameters

syslog Message Facilities	RFC 5424 IETF Review
syslog Message Severities	RFC 5424 IETF Review
syslog Structured Data ID Values	RFC 5424 IETF Review
syslog Version Values	RFC 5424 Standards Action
syslog-sign Hash Algorithm Values	RFC 5848 IETF Review
syslog-sign Key Blob Type Values	RFC 5848 IETF Review
syslog-sign Protocol Version Values	RFC 5848 IETF Review
syslog-sign SG Field Values	RFC 5848 IETF Review
syslog-sign Signature Scheme Values	RFC 5848 IETF Review

System for Cross-domain Identity Management (SCIM) Schema URIs

SCIM Event URIs	draft-ietf-scim-events-15 Expert Review (Expert: Unassigned)
SCIM Schema URIs for Data Resources	RFC 7643 "core" and "API" schemas: RFC and Expert Review Rec All other schemas: Expert Review. (Expert: Phil Hunt, Paulo Jorge N. Correia)
SCIM Server-Related Schema URIs	RFC 7643 "core" and "API" schemas: RFC and Expert Review Rec All other schemas: Expert Review. (Expert: Phil Hunt, Paulo Jorge N. Correia)

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TCP Convert Protocol (Convert) Parameters[Convert Errors](#)[RFC 8803](#)

1-127: IETF Review.

128-191: Specification Required.

192-255: Private Use.

(Expert: Mohamed Boucadair (primary), Olivier Bonafant (secondary))

[Convert TLVs](#)[RFC 8803](#)

1-127: IETF Review.

128-191: Specification Required.

192-255: Private Use.

(Expert: Mohamed Boucadair (primary), Olivier Bonafant (secondary))

[Convert Versions](#)[RFC 8803](#)

IETF Review

Telephony Routing over IP (TRIP) Parameters[TRIP Address Families](#)[RFC 3219](#)

Expert Review (Expert: Jonathan Rosenberg)

[TRIP Application Protocols](#)[RFC 3219](#)

Expert Review (Expert: Jonathan Rosenberg)

[TRIP Attributes](#)[RFC 3219](#)

Specification Required (Expert: Unassigned)

[TRIP Capabilities](#)[RFC 3219](#)

Specification Required (Expert: Unassigned)

[TRIP IP Telephony Administrative Domain \(ITAD\) Numbers](#)[RFC 3219](#), [RFC 8602](#)

First Come First Served

Telnet Options[CAST5_40_CFB64 \(Type 8\) and CAST128_CFB64 \(Type 10\) Telnet Encryption Types](#)[RFC 2950](#)

First Come First Served

[CAST5_40_OFB64 \(Type 9\) and CAST128_OFB64 \(Type 11\) Telnet Encryption Types](#)[RFC 2949](#)

First Come First Served

[DES3_CFB64 Telnet Encryption Type \(Type 3\)](#)[RFC 2947](#)

First Come First Served

[DES3_OFB64 Telnet Encryption Type \(Type 4\)](#)[RFC 2948](#)

First Come First Served

[DES_CFB64 Telnet Encryption Type \(Type 1\)](#)[RFC 2952](#)

First Come First Served

[DES_OFB64 Telnet Encryption Type \(Type 2\)](#)[RFC 2953](#)

First Come First Served

[DSS Authentication Type \(Type 14\)](#)[RFC 2943](#)

Specification Required (Expert: Unassigned)

[KEA_SJ \(Type 12\) and KEA_SJ_INTEG \(Type 13\) Authentication Types](#)[RFC 2951](#)

Specification Required (Expert: Unassigned)

[KERBEROS_V4 Telnet Authentication Type \(Type 1\)](#)[RFC 1411](#)

First Come First Served

[KERBEROS_V5 Telnet Authentication Type \(Type 2\)](#)[RFC 2942](#)

Specification Required (Expert: Unassigned)

[SRP Telnet Authentication Type \(Type 5\)](#)[RFC 2944](#)

Specification Required (Expert: Unassigned)

[Telnet Authentication Types \(Option 37\)](#)[RFC 2941](#)

First Come First Served

[Telnet Encryption Types \(Option 38\)](#)[RFC 2946](#)

First Come First Served

Telnet Options	RFC 855 IETF Review
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Terminal Type Names

Terminal Type Names	RFC 1091 Not defined?
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The Binary Floor Control Protocol (BFCP) Parameters

Attributes	RFC 8855 Specification Required (Expert: Brian Rosen, Tom Kris)
Error Codes	RFC 8855 Specification Required (Expert: Brian Rosen, Tom Kris)
Primitives	RFC 8855 Specification Required (Expert: Brian Rosen, Tom Kris)
Request Statuses	RFC 8855 Specification Required (Expert: Brian Rosen, Tom Kris)

The Extensible Authentication Protocol Mechanism for the Generic Security Service Application Programming Interface (GSS-EAP) Parameters

GSS-EAP Context Flags	RFC 7055 IETF Review or IESG Approval
GSS-EAP Error Codes	RFC 7055 0-127: Standards Action. 128-255: Specification Required. (Expert: Joseph Salowey)
GSS-EAP Subtoken Types	RFC 7055 Expert Review (Expert: Joseph Salowey)

Time Zone Data Distribution Service (TZDIST) Parameters

TZDIST Identifiers	RFC 7808 IETF Review
TZDIST Service Actions	RFC 7808 Specification Required (Expert: Michael Douglass)

Timed Efficient Stream Loss-tolerant Authentication (TESLA) Parameters

Cryptographic Message Authentication Code (MAC) Function, TESLA-MAC Values	RFC 4442 Expert Review (Expert: MSEC working group or its de: successor)
Cryptographic Pseudo-Random Function, TESLA-PRF Values	RFC 4442 Expert Review (Expert: MSEC working group or its de: successor)
Signature Cryptographic Function, TESLA-SIG-CRYPTO-FUNC Values	RFC 5776 Expert Review (Expert: MSEC working group or its de: successor)
Signature Encoding Algorithm, TESLA-SIG-ALGO Values	RFC 5776 Expert Review (Expert: MSEC working group or its de: successor)

TLS-based Posture Transport Protocol (PT-TLS)

PT-TLS Error Codes	RFC 6876 Specification Required (Expert: Unassigned)
PT-TLS Message Types	RFC 6876 Specification Required (Expert: Unassigned)

Token Binding Protocol

Token Binding Extensions	RFC 8471 Specification Required (Expert: Andrei Popov, Dirk Ba)
Token Binding Key Parameters	RFC 8471 Specification Required (Expert: Andrei Popov, Dirk Ba)
Token Binding Types	RFC 8471 Specification Required (Expert: Andrei Popov, Dirk Ba)

Trailer Types

Trailer Types	RFC 6081 Specification Required (Expert: Unassigned)
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Transfer Encodings

Transfer Encodings	RFC 4289 Standards Action
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Transmission Control Protocol (TCP) Header Flags

TCP Header Flags	RFC 9293 Standards Action
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Transmission Control Protocol (TCP) Parameters

Cryptographic Algorithms for TCP-AO Registration	RFC 5926 RFC Publication After Expert Review
MPTCP Handshake Algorithms	RFC 8684 Standards Action
MPTCP MP_TCP_RST Reason Codes	RFC 8684 Specification Required (Expert: Unassigned)
MPTCP Option Subtypes	RFC 8684 Standards Action
TCP Alternate Checksum Numbers	RFC 1146 Not defined
TCP Encryption Protocol Identifiers	RFC 8547 IETF Review or Expert Review with RFC Required (Exp Unassigned)
TCP Header Flags	RFC 9293 Standards Action
TCP Option Kind Numbers	RFC 2780 Standards Action or IESG Approval
TCP/UDP Experimental Option Experiment Identifiers (TCP/UDP ExIDs)	RFC 6994 , RFC 9868 First Come First Served
tcpcrypt AEAD Algorithms	RFC 8548 IETF Review or Expert Review with RFC Required (Exp Unassigned)

Transparent Interconnection of Lots of Links (TRILL) Parameters

Extended RBridge Channel Payload Types	RFC 7978 IETF Review
Extended RBridge Channel Security Types	RFC 7978 IETF Review
Interested Labels Flag Bits	RFC 7176 , RFC 7357 IETF Review
Interested VLANs Flag Bits	RFC 7176 , RFC 7357 IETF Review
PORT-TRILL-VER Sub-TLV Capability Flags	RFC 7176 IETF Review
RBridge Channel Error Codes	RFC 7178 Standards Action
RBridge Channel Header Flags	RFC 7178 IETF Review
RBridge Channel Protocols	RFC 7178 0x002-0x0FF: Standards Action. 0x100-0xFF7: RFC Required. 0x100-0xFF7: IESG Approval.
TRILL APPsub-TLV Types under IS-IS TLV 251 Application Identifier 1	RFC 7357 IETF Review with additional requirements on the documentation of the use being registered as specified in Section 7.2 of RFC 7357 .

TRILL Ethertypes	RFC 8377 Ethertypes are assigned by the IEEE Registration Authority. Updates to this registry are coordinated with the designated expert. (Expert: Donald Eastlake (primary), Sue Hares (secondary))
TRILL Extended Header Flags	RFC 7179 IETF Review
TRILL Multicast Addresses	RFC 6325 IETF Review
TRILL Neighbor TLV NEIGHBOR RECORD Flags	RFC 7176 Standards Action
TRILL Nicknames	RFC 6325 RFC Required (single value) or IETF Review (single or values)
TRILL OAM Return Codes	RFC 7455 Standards Action
TRILL Pull Directory Errors	RFC 8171 IETF Review
TRILL Pull Directory Query Types (QTYPEs)	RFC 8171 IETF Review
TRILL-VER Sub-TLV Capability Flags	RFC 7176 IETF Review
Transport Layer Security (TLS)	
TLS Alerts	draft-ietf-tls-rfc8446bis-13 , draft-ietf-tls-tls12-frozen-0-63 : Standards Action
TLS Application-Layer Protocol Negotiation (ALPN) Protocol IDs	RFC 7301 , RFC 8447 , RFC 9847 Expert Review (Expert: Yoav Nir, Rich Salz, Nick Sullivan)
TLS Authorization Data Formats	RFC 5878 , RFC 8447 , draft-ietf-tls-tls12-frozen-08 , RFC 0-63 : IETF Review. 64-223: Specification Required. 224-255: Reserved for Private Use. (Expert: Yoav Nir, Rich Salz, Nick Sullivan)
TLS CachedInformationType Values	RFC 7924 , draft-ietf-tls-tls12-frozen-08 , RFC 9847 0-63: Standards Action. 64-223: Specification Required. (Expert: Yoav Nir, Rich Salz, Nick Sullivan)
TLS Certificate Compression Algorithm IDs	RFC 8879 , draft-ietf-tls-tls12-frozen-08 , RFC 9847 1-255: IETF Review. 256-16383: Specification Required. 16384-65535: Experimental Use. (Expert: Yoav Nir, Rich Salz, Nick Sullivan)
TLS Certificate Status Types	RFC 6961 , draft-ietf-tls-rfc8446bis-13 , draft-ietf-tls-tls12-frozen-08 , RFC 9847 IETF Review
TLS Certificate Types	RFC 6091 , draft-ietf-tls-rfc8446bis-13 , RFC 8447 , draft-tls12-frozen-08 , RFC 9847 "Recommended" set to/transitioning from "Y" or "D": Standards Action With Expert Review or IESG Approval. "Recommended" set to "N," not transitioning from any value: Specification Required. (Expert: Yoav Nir, Rich Salz, Nick Sullivan)
TLS Cipher Suites	draft-ietf-tls-rfc8446bis-13 , RFC 8447 , RFC 9147 , draft-tls12-frozen-08 , RFC 9847 "Recommended" set to/transitioning from "Y" or "D": Standards Action With Expert Review or IESG Approval. "Recommended" set to "N," not transitioning from any value: Specification Required. (Expert: Yoav Nir, Rich Salz, Nick Sullivan)
TLS ClientCertificateType Identifiers	RFC 5246 , RFC 8447 , draft-ietf-tls-tls12-frozen-08 , RFC 0-223 ("Recommended" set to/transitioning from "Y"

	<p>Either Standards Action with Expert Review or IESG A 0-223 ("Recommended" set to "N," not transitioning from another value): Specification Required. 224-255: Reserved for Private Use. (Expert: Yoav Nir, Rich Salz, Nick Sullivan)</p>
TLS Compression Method Identifiers	<p>RFC 3749, RFC 8447 0-63: Standards Action. 64-223: Specification Required. 224-255: Reserved for Private Use. (Expert: Yoav Nir, Rich Salz, Nick Sullivan)</p>
TLS ContentType	<p>draft-ietf-tls-rfc8446bis-13, RFC 9443, draft-ietf-tls-tls12-frozen-08, RFC 9847 Standards Action</p>
TLS EC Curve Types	<p>RFC 8422, draft-ietf-tls-tls12-frozen-08, RFC 9847 Specification Required (Expert: Yoav Nir, Rich Salz, Nick Sullivan)</p>
TLS EC Point Formats	<p>RFC 8422, draft-ietf-tls-tls12-frozen-08, RFC 9847 Specification Required (Expert: Yoav Nir, Rich Salz, Nick Sullivan)</p>
TLS ECHConfig Extension	<p>draft-ietf-tls-esni-25 Specification Required (Expert: Unassigned)</p>
TLS Exporter Labels	<p>RFC 5705, RFC 8447, RFC 9847 "Recommended" set to/transitioning from "Y" or "D": Standards Action With Expert Review or IESG Approval. "Recommended" set to "N," not transitioning from another value: Expert Review. (Expert: Yoav Nir, Rich Salz, Nick Sullivan)</p>
TLS ExtensionType Values	<p>draft-ietf-tls-rfc8446bis-13, RFC 8447, RFC 9146, draft-tls12-frozen-08, RFC 9847 "Recommended" set to/transitioning from "Y" or "D": Standards Action With Expert Review or IESG Approval. "Recommended" set to "N," not transitioning from another value: Specification Required. (Expert: Yoav Nir, Rich Salz, Nick Sullivan)</p>
TLS HandshakeType	<p>draft-ietf-tls-rfc8446bis-13, draft-ietf-tls-tls12-frozen-08 Standards Action</p>
TLS HashAlgorithm	<p>RFC 5246, RFC 8447, RFC 9155, draft-ietf-tls-tls12-frozen-08, RFC 9847 0-223 ("Recommended" set to/transitioning from "Y" or "D"): Either Standards Action with Expert Review or IESG Approval. 0-223 ("Recommended" set to "N," not transitioning from another value): Specification Required. 224-255: Reserved for Private Use. (Expert: Yoav Nir, Rich Salz, Nick Sullivan)</p>
TLS Heartbeat Message Types	<p>RFC 6520, RFC 8447, draft-ietf-tls-tls12-frozen-08, RFC 9847 Expert Review (Expert: Yoav Nir, Rich Salz, Nick Sullivan)</p>
TLS Heartbeat Modes	<p>RFC 6520, RFC 8447, draft-ietf-tls-tls12-frozen-08, RFC 9847 Expert Review (Expert: Yoav Nir, Rich Salz, Nick Sullivan)</p>
TLS KDF Identifiers	<p>RFC 9258, draft-ietf-tls-tls12-frozen-08, RFC 9847 0x0000-0xfeff: Specification Required. 0xff00-0xffff: Private Use. (Expert: Rich Salz, Nick Sullivan)</p>
TLS PskKeyExchangeMode	<p>draft-ietf-tls-rfc8446bis-13, draft-ietf-tls-tls12-frozen-08, RFC 9847 "Recommended" set to/transitioning from "Y" or "D": Standards Action With Expert Review or IESG Approval. "Recommended" set to "N," not transitioning from another value: Specification Required. (Expert: Yoav Nir, Rich Salz, Nick Sullivan)</p>
TLS RRC Message Types	<p>draft-ietf-tls-dtls-rrc-20 Expert Review (Expert: Unassigned)</p>

TLS SignatureAlgorithm	RFC 5246 , RFC 8447 , RFC 9155 , draft-ietf-tls-tls12-froze RFC 9847 0-223 ("Recommended" set to/transitioning from "Y" Either Standards Action with Expert Review or IESG A 0-223 ("Recommended" set to "N," not transitioning f another value): Specification Required. 224-255: Reserved for Private Use. (Expert: Yoav Nir, Rich Salz, Nick Sullivan)
TLS SignatureScheme	draft-ietf-tls-rfc8446bis-13 , draft-ietf-tls-tls12-frozen-9847 "Recommended" set to/transitioning from "Y" or "D": Standards Action With Expert Review or IESG Approv "Recommended" set to "N," not transitioning from ar value: Specification Required. (Expert: Yoav Nir, Rich Salz, Nick Sullivan)
TLS SSLKEYLOGFILE Labels	draft-ietf-tls-keylogfile-05 , RFC 9847 Specification Required (Expert: Unassigned)
TLS Supplemental Data Formats (SupplementalDataType)	RFC 4680 , RFC 8447 , draft-ietf-tls-tls12-frozen-08 , RFC 0-16385 : Standards Action. 16386-65279: IETF Review. 65280-65535: Reserved for Private Use.
TLS Supported Groups	RFC 8422 , RFC 7919 , draft-ietf-tls-rfc8446bis-13 , RFC 8 draft-ietf-tls-tls12-frozen-08 , RFC 9847 , draft-ietf-tls-h design-16 0-255 ("Recommended" set to/transitioning from "Y" Either Standards Action with Expert Review or IESG A 0-255 ("Recommended" set to "N," not transitioning f another value): Specification Required. 256-511 ("Recommended" set to/transitioning from " "D"): Either Standards Action with Expert Review or IE Approval. 256-511 ("Recommended" set to "N," not transitionin another value): Specification Required. 512-65535 ("Recommended" set to/transitioning from "D"): Either Standards Action with Expert Review or IE Approval. 512-65535 ("Recommended" set to "N," not transitior from another value): Specification Required. (Expert: Yoav Nir, Rich Salz, Nick Sullivan)
TLS UserMappingType Values	RFC 4681 , draft-ietf-tls-tls12-frozen-08 , RFC 9847 0-63: Standards Action. 64-223: Specification Required. 224-255: Reserved for Private Use. (Expert: Yoav Nir, Rich Salz, Nick Sullivan)
Tunnel Setup Protocol (TSP) Parameters	
Tunnel Types	RFC 5572 First Come First Served
Two-way Active Measurement Protocol (TWAMP) Parameters	
TWAMP-Control Command Numbers	RFC 5357 , RFC 5938 IETF Review
TWAMP-Modes	RFC 5618 , RFC 5938 , RFC 7717 IETF Review
U	
UDP Speed Test Protocol (UDPSTP)	
PDU Identifier	draft-ietf-ippm-capacity-protocol-25 0x0000: Reserved. 0x0001-0x7F00: Specification Required. 0x7F01-0x7FE0: Reserved for Experimental Use. 0x7FE1-0x7FFF: Reserved for Private Use. 0x0001-0x7F00: Specification Required. 0xFFFF: Reserved. (Expert: Unassigned)

Protocol Version	draft-ietf-ippm-capacity-protocol-25 0-19: Reserved. 20-40960: IETF Review. 40961-53248: Specification Required. 53249-65534: Reserved for Experimental Use. 65535: Reserved. (Expert: Unassigned)
Test Activation PDU Command Request	draft-ietf-ippm-capacity-protocol-25 0-127: IETF Review. 128-239: Specification Required. 240-249: Reserved for Experimental Use. 250-254: Reserved for Private Use. 255: Reserved. (Expert: Unassigned)
Test Activation PDU Command Response Field	draft-ietf-ippm-capacity-protocol-25 0-127: IETF Review. 128-239: Specification Required. 240-249: Reserved for Experimental Use. 250-254: Reserved for Private Use. 255: Reserved. (Expert: Unassigned)
Test Activation PDU Modifier Bitmap	draft-ietf-ippm-capacity-protocol-25 00000000-01111111: IETF Review. 10000000: Reserved.
Test Activation PDU Rate Adjustment Algo.	draft-ietf-ippm-capacity-protocol-25 A-Y: IETF Review. Z: Reserved.
Test Setup PDU Authentication Mode	draft-ietf-ippm-capacity-protocol-25 0-59: IETF Review. 60-63: Reserved for Experimental Use. 64-255: Reserved.
Test Setup PDU Command Response Field	draft-ietf-ippm-capacity-protocol-25 0-127: IETF Review. 128-239: Specification Required. 240-249: Reserved for Experimental Use. 250-254: Reserved for Private Use. 255: Reserved. (Expert: Unassigned)
Test Setup PDU Modifier Bitmap	draft-ietf-ippm-capacity-protocol-25 00000000-01111111: IETF Review. 10000000: Reserved.

Unidirectional Lightweight Encapsulation (ULE) Next-Header Registry

Mandatory Extension Headers (or link-dependent type fields) for ULE (Range 0-255 decimal)	RFC 4326, RFC 7280 Specification Required (Expert: Gorry Fairhurst)
Optional Extension Headers for ULE (Range 256-511 decimal)	RFC 4326, RFC 7280 Specification Required (Expert: Gorry Fairhurst)

Uniform Resource Identifier (URI) Schemes

"about" URI Tokens	RFC 6694 First Come First Served
'geo' URI 'crs' Parameter Values	RFC 5870 IESG Approval with Specification Required
'geo' URI Parameters	RFC 5870 Specification Required (Expert: Unassigned)
'ipn' Scheme URI Allocator Identifiers	RFC 9758 0-0xFFFF: Expert Review. 0x10000-0x3FFFFFFF: Expert Review. 0x40000000-0x7FFFFFFF: Experimental Use. 0x80000000-0xFFFFFFFF: Reserved. >=0x100000000: Reserved. (Expert: Edward Birrane, Rick Taylor)

'ipn' Scheme URI Default Allocator Node Numbers	RFC 7116 , RFC 9758 1-0x3FFF (1-16383): Private Use. 0x4000-0xFFFFFFFF (16384-4294967294): Expert Review >=0x100000000 (>=4294967296): Invalid. (Expert: Keith Scott)
'ipn' Scheme URI Well-Known Service Numbers for BpV7	RFC 9758 1-127: Private Use. 128-255: Standards Action. 0x0100-0x7FFF: Private Use. 0x8000-0xFFFF: Specification Required. 0x10000-0xFFFFFFFF: Private Use. >=0x100000000: Reserved for future expansion. (Expert: Edward Birrane, Rick Taylor, Brian Sipos)
POSH Service Names	RFC 7711 Expert Review or IETF Review (Expert: Unassigned)
tel URI Parameters	RFC 5341 Specification Required (Expert: Vijay Gurbani)
Uniform Resource Identifier (URI) Schemes	RFC 7595 , RFC 8615 , draft-ietf-core-href-29 Permanent: Expert Review. Provisional: First Come First Served. Historical: Expert Review. CRI Scheme Number field: 0-999: Expert Review. CRI Scheme Number field: 1000-20000: First Come First Served. (Expert: Registry: Mark Baker (primary), Murray Kuch (backup). CRI Scheme Number field: Unassigned.)
Well-Known URIs	RFC 8615 Specification Required (Expert: Mark Nottingham)
Uniform Resource Name (URN) Namespace for IETF Use	
IETF URN Sub-namespace for Registered Protocol Parameter Identifiers	RFC 3553 IETF Review
IETF URN Sub-namespaces	RFC 6924 IETF Review
Uniform Resource Names (URN)	
Alert URN Identifiers	RFC 7462 Specification Required (Expert: Dale Worley)
Alert URN Providers	RFC 7462 First Come First Served
Formal URN Namespaces	RFC 8141 Expert Review, per Section 6 of RFC 8141 . Fast-track procedure for standards organizations described in Section 6.3. (Expert: Peter Saint-Andre (team leader), Dale Worley, Juha Hakala, Stephanie Palek, Lars Svensson, Jyrki Ilv.)
Informal URN Namespaces	RFC 8141 Expert Review, per Section 6 of RFC 8141 . (Expert: Peter Saint-Andre (team leader), Dale Worley, Juha Hakala, Stephanie Palek)
URN Service Labels	RFC 5031 Standards Action
User Datagram Protocol (UDP)	
TCP/UDP Experimental Option Experiment Identifiers (TCP/UDP ExIDs)	RFC 6994 , RFC 9868
UDP Option Kind Numbers	RFC 9868 Standards Action or IESG Approval
UUID	
UUID Namespace IDs	RFC 9562 Specification Required (Expert: Kyzer Davis, Brad Pea)
UUID Subtypes	RFC 9562 Standards Action With Expert Review (Expert: Kyzer Davis)

Brad Peabody)

V

vCard Elements[vCard Parameter Values](#)[RFC 6350](#)

Expert Review and RFC Required (Expert: Primary: Sir Perreault; Backup: Peter Saint-Andre)

[vCard Parameters](#)[RFC 6350](#)

No namespace specified: Expert Review and RFC Req Vendor namespace specified: First Come First Served (Expert: Primary: Simon Perreault; Backup: Peter Sair Andre)

[vCard Properties](#)[RFC 6350](#)

No namespace specified: Expert Review and RFC Req Vendor namespace specified: First Come First Served (Expert: Primary: Simon Perreault; Backup: Peter Sair Andre)

[vCard Property Values](#)[RFC 6350](#)

Expert Review and RFC Required (Expert: Primary: Sir Perreault; Backup: Peter Saint-Andre)

[vCard Value Data Types](#)[RFC 6350](#)

Expert Review and RFC Required (Expert: Primary: Sir Perreault; Backup: Peter Saint-Andre)

VCDIFF Secondary Compressor ID Values[VCDIFF Secondary Compressor ID Values](#)[RFC 3284](#)

RFC or peer-reviewed permanent and readily available reference. Subject to the above, name assignments a Come First Served.

Vectors of Trust (VoT)[Vectors of Trust Components](#)[RFC 8485](#)

Specification Required (Expert: Justin Richer, Leif Joha

'version' symbols used within the ISUP and QSIG[application/ISUP symbols](#)[RFC 3204](#)

Expert Review (Expert: Jon Peterson)

[application/QSIG symbols](#)[RFC 3204](#)

Expert Review (Expert: Jon Peterson)

Virtual Network Computing (VNC) Uniform Resource Identifier (URI)[VNC URI Connection Channel Types](#)[RFC 7869](#)

First Come First Served

[VNC URI ID Hash Algorithms](#)[RFC 7869](#)

First Come First Served

[VNC URI Parameters](#)[RFC 7869](#)

First Come First Served

W

WAVE and AVI Codec Registries (Historic Registry)[WAVE and AVI Codec Registries](#)[RFC 2361](#)

IANA does not assign. Republication of values.

Web Authentication (WebAuthn)[WebAuthn Attestation Statement Format Identifiers](#)[RFC 8809](#)

Specification Required (Expert: Mike Jones, Giridhar Mandyam)

[WebAuthn Extension Identifiers](#)[RFC 8809](#)

Specification Required (Expert: Mike Jones, Giridhar Mandyam)

Web Push Parameters

VAPID Authentication Scheme Parameters	RFC 8292 Specification Required (Expert: Martin Thomson)
Web Push Identifiers	RFC 8030 IETF Review
Webfinger Parameters	
Webfinger Properties	RFC 7033 Expert Review (Expert: Unassigned)
WebRTC-HTTP Ingestion Protocol (WHIP)	
WebRTC-HTTP Ingestion Protocol (WHIP) Extension URNs	RFC 9725 Specification Required (Expert: Sergio Garcia Murillo, Ohlmeier)
WebRTC-HTTP Ingestion Protocol (WHIP) URNs	RFC 9725 Specification Required (Expert: Sergio Garcia Murillo, Ohlmeier)
WebSocket Protocol Registries	
WebSocket Close Code Number Registry	RFC 6455 1000-2999: Standards Action, Specification Required Review. 3000-3999: First Come First Served. (Expert: Alexey Melnikov)
WebSocket Extension Name Registry	RFC 6455 First Come First Served
WebSocket Framing Header Bits Registry	RFC 6455 Standards Action
WebSocket Opcode Registry	RFC 6455 Standards Action
WebSocket Subprotocol Name Registry	RFC 6455 , RFC 7936 , RFC 8864 First Come First Served
WebSocket Version Number Registry	RFC 6455 Standard Version Numbers: IETF Review. Interim Version Numbers: Expert Review. (Expert: HYBI WG Chairs)
Wrapped Encapsulating Security Payload (WESP) Flags	
WESP Flags	RFC 5840 IETF Review
WESP Version Numbers	RFC 5840 Standards Action
	X
X.25 Type Numbers	
X.25 Type Numbers	Not assigned by IANA
Xerox Network System (XNS) Protocol Types	
Assigned internet packet types	Not assigned by IANA
Assigned well-known socket numbers	Not assigned by IANA
XML Evidence Record Syntax (XMLERS)	
Cryptographic Information Type	RFC 6283 RFC Required
Time-Stamp Token Type	RFC 6283 RFC Required
XML Security URIs	
XML Security URIs	RFC 9231 Specification Required (Expert: Donald Eastlake, Alex Melnikov)

YANG Geographic Location Parameters[Geodetic System Values](#)[RFC 9179](#)

First Come First Served

YANG Module Tags[IETF YANG Module Tags](#)[RFC 8819](#)

IETF Review

[YANG Module Tag Prefixes](#)[RFC 8819](#)

Specification Required (Expert: Christian Hopps, Lou Dean Bogdanovic)

YANG Modules[iana-bfd-types YANG Module](#)[RFC 9127](#), [RFC 5880](#)

See BFD Diagnostic Codes and BFD Authentication Type registries.

[iana-bgp-l2-encaps YANG Module](#)[RFC 9291](#), [RFC 6624](#)

See BGP Layer 2 Encapsulation Types registry.

[iana-crypt-hash YANG Module](#)[RFC 7317](#)

Expert Review (Expert: Kent Watsen)

[iana-dns-class-rr-type YANG Module](#)[RFC 9108](#)

See DNS CLASSes and Resource Record (RR) TYPEs re

[iana-dots-signal-channel YANG Module](#)[RFC 9132](#)

See the DOTS Status Codes, DOTS Conflict Status Codes, DOTS Conflict Cause Codes, and DOTS Attack Status Codes registries.

[iana-hardware YANG Module](#)[RFC 8348](#)

See IANA-ENTITY-MIB MIB module.

[iana-http-versions YANG Module](#)[draft-ietf-netconf-http-client-server-31](#)

See the TLS Application-Layer Protocol Negotiation (ALPN) Protocol IDs registry.

[iana-icmpv4-types YANG Module](#)[RFC 9899](#)

See ICMP Type Numbers registry.

[iana-icmpv6-types YANG Module](#)[RFC 9899](#)

See ICMPv6 "type" Numbers registry.

[iana-if-type YANG Module](#)[RFC 1213](#), [RFC 2863](#), [RFC 7224](#), [RFC 8892](#)

This is one of the available formats of the Interface Type (ifType) registry.

[iana-ipv6-ext-types YANG Module](#)[RFC 9899](#)

See IPv6 Extension Header Types registry.

[iana-msd-types YANG Module](#)[RFC 9702](#)

See the IGP MSD-Types registry.

[iana-pseudowire-types YANG Module](#)[RFC 9291](#), [RFC 4446](#)

See MPLS Pseudowire Types registry.

[iana-routing-types YANG Module](#)[RFC 8294](#), [RFC 2453](#), [RFC 2677](#), [RFC 2858](#), [RFC 4760](#)

See Address Family Numbers and Subsequent Address Family Identifiers (SAFI) Values registries.

[iana-sip-option-tags YANG Module](#)[draft-ietf-asap-sip-auto-peer-40](#)

See the Option Tags registry.

[iana-ssh-encryption-algs YANG Module](#)[RFC 9644](#)

See the Encryption Algorithm Names registry.

[iana-ssh-key-exchange-algs YANG Module](#)[RFC 9644](#)

See the Key Exchange Method Names registry.

[iana-ssh-mac-algs YANG Module](#)[RFC 9644](#)

See the MAC Algorithm Names registry.

[iana-ssh-public-key-algs YANG Module](#)[RFC 9644](#)

See the Public Key Algorithm Names registry.

[iana-tls-cipher-suite-algs YANG Module](#)

[RFC 9645](#)

See the TLS Cipher Suites registry.

[iana-tunnel-type YANG Module](#)

[RFC 4087](#), [RFC 8675](#), [RFC 8892](#)

This is one of the available formats of the Tunnel Type (tunnelType) registry.

YANG Parameters

[YANG Module Names](#)

[RFC 6020](#), [draft-ietf-netmod-rfc8407bis-28](#), [RFC 9890](#)

RFC Required

YANG SIDs

[IETF YANG-SID Modules](#)

[RFC 9595](#)

Expert Review (Expert: Michel Veillette, Alexander Pel Laurent Toutain)

[IETF YANG-SID Ranges](#)

[RFC 9595](#)

0: ได้รับการอนุมัติจาก IESG

1000: ต้องมี RFC (หรือการตรวจสอบโดยผู้เชี่ยวชาญหาก YA จาก RFC ที่มีอยู่แล้ว)

60000: สงวนไว้สำหรับการใช้งานเชิงทดลอง

100000: ต้องมี RFC (หรือการตรวจสอบโดยผู้เชี่ยวชาญหากมาจาก RFC ที่มีอยู่แล้ว)

300000: สงวนไว้

(ผู้เชี่ยวชาญ: Michel Veillette, Alexander Pelov, Laurent Toutain)

[หยางซิด เมกะเรนจ์](#)

[บทวิจารณ์โดยผู้เชี่ยวชาญ RFC 9595](#)

(ผู้เชี่ยวชาญ: Michel Veillette, Alexander Pelov, Laurent Toutain)

ชื่อโดเมน รีจิสทรีโซนราก รีจิสทรี .INT ทะเบียน .ARPA คอลงข้อมูล IDN

ทรัพยากรตัวเลข ข้อมูลเกี่ยวกับการลวงละเมิด

โปรโตคอล ทะเบียนโปรโตคอล ฐานข้อมูลเขตเวลา

เกี่ยวกับเรา ข่าว ผลงาน ความเป็นเลิศ คอลงเก็บเอกสารสำคัญ ติดต่อเรา

หน้าที่ของ IANA คือการประสานงานตัวระบุที่ไม่ซ้ำกันทั่วโลกของอินเทอร์เน็ต โดยจัดทำโดย **Public Technical Identifiers** ซึ่งเป็นบริษัทในเครือของ **ICANN**

นโยบายความเป็นส่วนตัว **เงื่อนไขการให้บริการ**