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M. Jones
Bridgewater Systems
L. Morand
Orange Labs
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Diameter Command Code Registration for Third Generation Partnership
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Abstract

This document registers a set of IANA Diameter Command Codes to be

used in new vendor-specific Diameter applications defined for the Third Generation Partnership Project (3GPP) Evolved Packet System (EPS). These new Diameter applications are defined for Mobile Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces in the Release 8 architecture.

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[1.](#) Introduction

The Third Generation Partnership Project (3GPP) is defining the Evolved Packet System (EPS) as part of their Release 8 architecture. As part of this architecture, the interfaces based on the Diameter protocol [[RFC3588](#)] require the definition of two new Diameter applications.

The 3GPP S6a/S6d application (vendor-specific application id: 1677251) enables the transfer of subscriber related data between the Mobile Management Entity (MME) and Home Subscriber Server (HSS) on the S6a interface and between the Serving GPRS Support Node (SGSN) and Home Subscriber Server (HSS) on the S6d interface.

The 3GPP S13/S13' application (vendor-specific application id: 1677252) enables the Mobile Equipment Identity check procedure between the Mobile Management Entity (MME) and Equipment Identity Register (EIR) on the S13 interface and between the Serving GPRS Support Node (SGSN) and Equipment Identity Register (EIR) on the S13' interface.

Both Diameter applications are defined under the 3GPP vendor-id "10415" and are defined in [[TS29.272](#)]. This document defines the assigned values of the command codes used in these applications.

[2.](#) Terminology

The base Diameter specification ([Section 1.4 of \[RFC3588\]](#)) defines most of the terminology used in this document. Additionally, the terms and acronyms defined in [[TS29.272](#)] are used in this document.

[3.](#) Command Codes

The 3GPP S6a/S6d application described in section 5 of [[TS29.272](#)]

requires the allocation of command code values for the following command pairs:

- o 3GPP-Update-Location-Request/Answer (ULR/ULA)
- o 3GPP-Cancel-Location-Request/Answer (CLR/CLA)
- o 3GPP-Authentication-Information-Request/ Answer (AIR/AIA)
- o 3GPP-Insert-Subscriber-Data-Request/Answer (IDR/IDA)

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- o 3GPP-Delete-Subscriber-Data-Request/Answer (DSR/DSA)
- o 3GPP-Purge-UE-Request/Answer (PUR/PUA)
- o 3GPP-Reset-Request/Answer (RSR/RSA)
- o 3GPP-Notify-Request/Answer (NOR/NOA)

The 3GPP S13/S13 application described in section 6 of [TS29.272] requires the allocation of a command code value for the following command pair:

- o 3GPP-ME-Identity-Check-Request/Answer (ECR/ECA)

4. IANA Considerations

This section provides guidance to the Internet Assigned Numbers Authority (IANA) regarding registration of values related to the Diameter protocol, in accordance with [BCP 26](#) [[RFC5226](#)].

This document defines values in the namespace that has been defined in the Diameter Base specification [RFC3588]. [Section 11 of \[RFC3588\]](#) (IANA Considerations) details the assignment criteria. IANA is requested to allocate the following command code values:

Code	Command Name	Abbrev.	Defined in
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tbd	3GPP-Update-Location-Request	ULR	3GPP TS 29.272	
tbd	3GPP-Update-Location-Answer	ULA	3GPP TS 29.272	
tbd	3GPP-Cancel-Location-Request	CLR	3GPP TS 29.272	
tbd	3GPP-Cancel-Location-Answer	CLA	3GPP TS 29.272	
tbd	3GPP-Authentication-Information-Request	AIR	3GPP TS 29.272	
tbd	3GPP-Authentication-Information-Answer	AIA	3GPP TS 29.272	
tbd	3GPP-Insert-Subscriber-Data-Request	IDR	3GPP TS 29.272	
tbd	3GPP-Insert-Subscriber-Data-Answer	IDA	3GPP TS 29.272	
tbd	3GPP-Delete-Subscriber-Data-Request	DSR	3GPP TS 29.272	
tbd	3GPP-Delete-Subscriber-Data-Answer	DSA	3GPP TS 29.272	
tbd	3GPP-Purge-UE-Request	PUR	3GPP TS 29.272	
tbd	3GPP-Purge-UE-Answer	PUA	3GPP TS 29.272	
tbd	3GPP-Reset-Request	RSR	3GPP TS 29.272	
tbd	3GPP-Reset-Answer	RSA	3GPP TS 29.272	
tbd	3GPP-Notify-Request	NOR	3GPP TS 29.272	
tbd	3GPP-Notify-Answer	NOA	3GPP TS 29.272	
tbd	3GPP-ME-Identity-Check-Request	ECR	3GPP TS 29.272	
tbd	3GPP-ME-Identity-Check-Answer	ECA	3GPP TS 29.272	
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[5.](#) Security Considerations

This document describes command codes used in applications which build on top of the Diameter base protocol and the same security considerations described in [[RFC3588](#)] are applicable to this document. No further extensions are required beyond the security mechanisms offered by [[RFC3588](#)].

[6.](#) Acknowledgements

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[7.](#) References

[7.1.](#) Normative References

[RFC3588] Calhoun, P., Loughney, J., Guttman, E., Zorn, G., and J.

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[TS29.272]

3rd Generation Partnership Project, "3GPP TS 29.272;
Technical Specification Group Core Network and Terminals;
Evolved Packet System; Mobility Management Entity (MME)
and Serving GPRS Support Node (SGSN) Related Interfaces
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<http://www.3gpp.org/ftp/Specs/html-info/29272.htm>.

7.2. Informative References

[RFC5226] Narten, T. and H. Alvestrand, "Guidelines for Writing an
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Authors' Addresses

Mark Jones
Bridgewater Systems

Email: mark.jones@bridgewatersystems.com

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Lionel Morand
Orange Labs

Email: lionel.morand@orange-ftgroup.com

