



ATIS STANDARD

ATIS-1000102.v002

**Invocation/Revocation of the National Security /  
Emergency Preparedness (NS/EP) Data Transport Service  
for the Evolved Packet System (EPS)**

TECHNICAL REPORT



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### ATIS-1000102.v002, *Invocation, Revocation of the National Security / Emergency Preparedness (NS/EP) Data Transport Service for the Evolved Packet System (EPS)*

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# Invocation/Revocation of the National Security / Emergency Preparedness (NS/EP) Data Transport Service for the Evolved Packet System (EPS)

Alliance for Telecommunications Industry Solutions

Approved May 22, 2024

## Abstract

The National Security / Emergency Preparedness (NS/EP) Data Transport Service enables an NS/EP Service Provider to provide acceptable throughput and performance to the Service User for applications using the Default Bearer within a designated PDN Connection in the Evolved Packet System (EPS) during periods of severe network congestion when normal commercial data service is degraded.

This Technical Report (TR) analyzes NS/EP Data Transport Service invocation / revocation for several use case scenarios and identifies the implied requirements on the EPS, in order to facilitate a common approach for NS/EP Data Transport Service invocation / revocation across multiple NS/EP Service Providers.

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## Foreword

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The mandatory requirements are designated by the word *shall* and recommendations by the word *should*. Where both a mandatory requirement and a recommendation are specified for the same criterion, the recommendation represents a goal currently identifiable and having distinct compatibility or performance advantages. The word *may* denotes an optional capability that could augment the standard. The standard is fully functional without the incorporation of this optional capability.

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At the time of consensus on this document, the PTSC, which was responsible for its development, had the following leadership:

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## Table of Contents

<b>1.</b>	<b>SCOPE, PURPOSE, &amp; APPLICATION .....</b>	<b>1</b>
1.1	SCOPE.....	1
1.2	PURPOSE.....	1
1.3	APPLICATION.....	1
<b>2</b>	<b>NORMATIVE REFERENCES .....</b>	<b>1</b>
<b>3</b>	<b>DEFINITIONS, ACRONYMS, &amp; ABBREVIATIONS.....</b>	<b>2</b>
3.1	DEFINITION.....	2
3.2	ACRONYMS & ABBREVIATIONS.....	3
<b>4</b>	<b>OVERVIEW OF THE NS/EP DATA TRANSPORT SERVICE .....</b>	<b>4</b>
4.1	GENERAL.....	4
4.2	ASSUMPTIONS.....	5
4.3	KEY FEATURES AND CHARACTERISTICS.....	6
4.3.1	<i>Invocation of the NS/EP Data Transport Service .....</i>	<i>6</i>
4.3.2	<i>Sustaining Performance of the NS/EP Data Transport Service.....</i>	<i>7</i>
4.3.3	<i>Revocation of the NS/EP Data Transport Service .....</i>	<i>7</i>
<b>5</b>	<b>ARCHITECTURAL REFERENCE MODEL.....</b>	<b>7</b>
5.1	OVERVIEW.....	7
5.2	REFERENCE ARCHITECTURE FOR NS/EP DATA TRANSPORT SERVICE.....	7
5.3	USE OF EPS BEARERS FOR THE NS/EP DATA TRANSPORT SERVICE.....	8
<b>6</b>	<b>USE CASES (FLOW DESCRIPTIONS).....</b>	<b>9</b>
6.1	USE CASES / ASSUMPTIONS .....	10
6.2	NS/EP DATA TRANSPORT SERVICE - FLOW DESCRIPTIONS.....	11
6.2.1	<i>NS/EP Data Transport Service - use of Browser.....</i>	<i>12</i>
6.2.2	<i>NS/EP Data Transport Service - use of special DTS Application by NS/EP-Subscribed UE .....</i>	<i>14</i>
6.3	SUB-FLOW DESCRIPTIONS .....	17
6.3.1	<i>RRC Connection Establishment.....</i>	<i>17</i>
6.3.2	<i>Attach and PDN Connection Establishment .....</i>	<i>17</i>
6.3.2.1	<i>Advance Priority-HSS at the time of Attach / PDN Connection Establishment.....</i>	<i>18</i>
6.3.2.2	<i>Advance Priority with an Additional Dedicated Bearer.....</i>	<i>20</i>
6.3.3	<i>Establishment of AF Signalling Flow between UE and DTS Server.....</i>	<i>22</i>
6.3.4	<i>HTTPS-based Invocation of the NS/EP Data Transport Service.....</i>	<i>25</i>
6.3.4.1	<i>DNS Query and Response.....</i>	<i>26</i>
6.3.4.2	<i>TCP Connection Establishment .....</i>	<i>27</i>
6.3.4.3	<i>SSL/TLS Handshake.....</i>	<i>27</i>
6.3.4.4	<i>HTTP Message Exchange – without Subsequent Entry of NS/EP Credentials.....</i>	<i>27</i>
6.3.4.5	<i>HTTP Message Exchange – with Subsequent Entry of NS/EP Credentials.....</i>	<i>28</i>
6.3.5	<i>PCC Mechanisms for Invocation of the NS/EP Data Transport Service .....</i>	<i>28</i>
6.3.6	<i>HTTPS-based Revocation of the NS/EP Data Transport Service .....</i>	<i>31</i>
6.3.6.1	<i>TCP Connection Release .....</i>	<i>32</i>
6.3.7	<i>Removal of AF Signalling Flow Previously Established for Priority Signalling between UE and DTS Server .....</i>	<i>32</i>
<b>7</b>	<b>ANALYSIS AND RECOMMENDATIONS .....</b>	<b>33</b>
7.1	ANALYSIS.....	33
7.1.1	<i>Relationship to 3GPP Priority EPS Bearer Service .....</i>	<i>33</i>
7.1.2	<i>Priority Signalling between the UE and the DTS Server.....</i>	<i>33</i>
7.1.3	<i>Mechanism used for UE interactions with DTS Server.....</i>	<i>35</i>
7.1.4	<i>Authorization Mechanism(s) for the NS/EP Data Transport Service.....</i>	<i>35</i>
7.1.5	<i>Access to DTS Server .....</i>	<i>36</i>
7.1.6	<i>Applicability of NS/EP Data Transport Service to particular PDN connection(s).....</i>	<i>37</i>
7.1.7	<i>DTS Server / DRA determination of PCRF.....</i>	<i>37</i>
7.1.8	<i>Addition of New Diameter MPS-Action AVP.....</i>	<i>37</i>
7.1.9	<i>PCC Mechanism used for Modification of PCC Rules .....</i>	<i>38</i>

7.1.10	<i>Extensions to PCC Event Notification Capabilities</i> .....	38
7.1.11	<i>NS/EP Data Transport Service Revocation</i> .....	39
7.1.12	<i>Configuration of QoS Values for NS/EP Data Transport Service</i> .....	39
7.2	RECOMMENDATIONS .....	40
A	<b>NS/EP DATA TRANSPORT SERVICE - 3GPP RELEASE 17 EXTENSIONS</b> .....	<b>43</b>

**Table of Figures**

FIGURE 5-1:	NON-ROAMING ARCHITECTURE FOR NS/EP DATA TRANSPORT SERVICE .....	8
FIGURE 5-2:	USE OF EPS BEARERS FOR THE NS/EP DATA TRANSPORT SERVICE.....	9
FIGURE 6-1:	OVERVIEW OF NS/EP DATA TRANSPORT SERVICE FLOW - USE OF BROWSER .....	12
FIGURE 6-2:	OVERVIEW OF NS/EP DATA TRANSPORT SERVICE FLOW - USE OF SPECIAL DTS APPLICATION BY NS/EP-SUBSCRIBED UE .....	15
FIGURE 6-3:	E-UTRAN ATTACH AND PDN CONNECTION ESTABLISHMENT PROCEDURE (WITH GTP-BASED S5/S8) ILLUSTRATING ADVANCE PRIORITY-HSS.....	19
FIGURE 6-4:	E-UTRAN ATTACH AND PDN CONNECTION ESTABLISHMENT PROCEDURE (WITH GTP-BASED S5/S8) ILLUSTRATING ADVANCE PRIORITY-HSS, INCLUDING DEDICATED BEARER.....	21
FIGURE 6-5:	ESTABLISHMENT OF AF SIGNALLING FLOW FOR UE TO DTS SERVER COMMUNICATIONS.....	23
FIGURE 6-6:	ILLUSTRATIVE SERVICE REQUEST FLOW (FOR HTTPS-BASED SERVICE INVOCATION) .....	26
FIGURE 6-7:	NS/EP DATA TRANSPORT SERVICE INVOCATION - PCC INTERACTIONS .....	29
FIGURE 6-8:	NS/EP DATA TRANSPORT SERVICE REVOCATION - PCC INTERACTIONS.....	31

**Table of Tables**

TABLE 6-1:	USE CASE ASSUMPTIONS: INVOCATION / REVOCATION OF NS/EP DATA TRANSPORT SERVICE .....	10
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ATIS Technical Report on –

# Invocation/Revocation of the National Security / Emergency Preparedness (NS/EP) Data Transport Service for the Evolved Packet System (EPS)

## 1. Scope, Purpose, & Application

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### 1.1 Scope

The proliferation of advanced data communications introduces new opportunities and challenges for National Security / Emergency Preparedness (NS/EP) communications. Expanded data capabilities enhance the ability for Service Users to carry out their NS/EP mission. At the same time, high data traffic volumes place significant demands upon Service Provider's networks and can hamper their ability to support the offered traffic load when these networks are impaired due to congestion and/or damage from natural or human-caused disasters. The NS/EP Data Transport Service is designed to address these needs.

This Technical Report (TR) analyzes NS/EP Data Transport Service invocation / revocation for an Evolved Packet System (EPS), including the associated user interactions with the NS/EP Service Provider, for several key use case scenarios as specified in TS 22.153 [Ref 1]. It describes support of the NS/EP Data Transport Service based on updated Policy and Charging Control (PCC) features for the EPS Bearer Service as specified in 3GPP Release 17, plus an enhancement that is recommended for 3GPP Release 18 deployments of the NS/EP Data Transport Service.

### 1.2 Purpose

The purpose of this TR is to use the TS 22.153 [Ref 1] use case scenarios to identify the implied requirements on the EPS and the Policy and Charging Control (PCC) architecture supporting the NS/EP Data Transport Service.

The objective is to facilitate a common approach for NS/EP Data Transport Service invocation / revocation across multiple NS/EP Service Providers.

### 1.3 Application

This TR is applicable to the public network infrastructure. It could also be utilized within a non-public network infrastructure.

## 2 Normative References

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The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

### 3rd Generation Partnership Project (3GPP)

[Ref 1] 3GPP TS 22.153, Multimedia priority service (Release 17).

[Ref 2] 3GPP TS 23.203, Policy and Charging Control Architecture (Release 17).