

ETSI TS 129 581 V19.3.0 (2026-04)



TECHNICAL SPECIFICATION

**5G;
5G System;
Multicast/Broadcast Service Transport Services;
Stage 3
(3GPP TS 29.581 version 19.3.0 Release 19)**



Reference

RTS/TSGC-0429581 vj30

Keywords

5G

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - APE 7112B
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° w061004871

Important notice

The present document can be downloaded from the
[ETSI Search & Browse Standards](#) application.

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the prevailing version of an ETSI deliverable is the one made publicly available in PDF format on [ETSI deliver](#) repository.

Users should be aware that the present document may be revised or have its status changed, this information is available in the [Milestones listing](#).

If you find errors in the present document, please send your comments to the relevant service listed under [Committee Support Staff](#).

If you find a security vulnerability in the present document, please report it through our [Coordinated Vulnerability Disclosure \(CVD\)](#) program.

Notice of disclaimer & limitation of liability

The information provided in the present deliverable is directed solely to professionals who have the appropriate degree of experience to understand and interpret its content in accordance with generally accepted engineering or other professional standard and applicable regulations.

No recommendation as to products and services or vendors is made or should be implied.

No representation or warranty is made that this deliverable is technically accurate or sufficient or conforms to any law and/or governmental rule and/or regulation and further, no representation or warranty is made of merchantability or fitness for any particular purpose or against infringement of intellectual property rights.

In no event shall ETSI be held liable for loss of profits or any other incidental or consequential damages.

Any software contained in this deliverable is provided "AS IS" with no warranties, express or implied, including but not limited to, the warranties of merchantability, fitness for a particular purpose and non-infringement of intellectual property rights and ETSI shall not be held liable in any event for any damages whatsoever (including, without limitation, damages for loss of profits, business interruption, loss of information, or any other pecuniary loss) arising out of or related to the use of or inability to use the software.

Copyright Notification

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.

The copyright and the foregoing restriction extend to reproduction in all media.

© ETSI 2026.
All rights reserved.

Intellectual Property Rights

Essential patents

IPRs essential or potentially essential to normative deliverables may have been declared to ETSI. The declarations pertaining to these essential IPRs, if any, are publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available from the ETSI Secretariat. Latest updates are available on the [ETSI IPR online database](#).

Pursuant to the ETSI Directives including the ETSI IPR Policy, no investigation regarding the essentiality of IPRs, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Trademarks

The present document may include trademarks and/or tradenames which are asserted and/or registered by their owners. ETSI claims no ownership of these except for any which are indicated as being the property of ETSI, and conveys no right to use or reproduce any trademark and/or tradename. Mention of those trademarks in the present document does not constitute an endorsement by ETSI of products, services or organizations associated with those trademarks.

DECT™, **PLUGTESTS™**, **UMTS™** and the ETSI logo are trademarks of ETSI registered for the benefit of its Members. **3GPP™**, **LTE™** and **5G™** logo are trademarks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners. **oneM2M™** logo is a trademark of ETSI registered for the benefit of its Members and of the oneM2M Partners. **GSM®** and the GSM logo are trademarks registered and owned by the GSM Association.

Legal Notice

This Technical Specification (TS) has been produced by ETSI 3rd Generation Partnership Project (3GPP).

The present document may refer to technical specifications or reports using their 3GPP identities. These shall be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between 3GPP and ETSI identities can be found at [3GPP to ETSI numbering cross-referencing](#).

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

Contents

Intellectual Property Rights	2
Legal Notice	2
Modal verbs terminology.....	2
Foreword.....	6
1 Scope	8
2 References	8
3 Definitions, symbols and abbreviations	9
3.1 Definitions	9
3.2 Symbols.....	9
3.3 Abbreviations	9
4 Overview	9
4.1 General	9
5 Services offered by the MBSTF.....	10
5.1 Introduction	10
5.2 Nmbstf_MBSDistributionSession Service	10
5.2.1 Service Description.....	10
5.2.2 Service Operations.....	11
5.2.2.1 Introduction.....	11
5.2.2.2 Create	11
5.2.2.2.1 General	11
5.2.2.3 Update.....	12
5.2.2.3.1 General	12
5.2.2.4 Destroy	12
5.2.2.4.1 General	12
5.2.2.5 Retrieve	13
5.2.2.5.1 General	13
5.2.2.6 StatusSubscribe service operation.....	14
5.2.2.6.1 General	14
5.2.2.6.2 Subscription creation	14
5.2.2.6.3 Subscription update	15
5.2.2.7 StatusUnsubscribe.....	15
5.2.2.7.1 General	15
5.2.2.8 StatusNotify	16
5.2.2.8.1 General	16
6 API Definitions	17
6.1 Nmbstf_MBSDistributionSession Service API.....	17
6.1.1 Introduction.....	17
6.1.2 Usage of HTTP	17
6.1.2.1 General	17
6.1.2.2 HTTP standard headers	17
6.1.2.2.1 General	17
6.1.2.2.2 Content type	18
6.1.2.3 HTTP custom headers	18
6.1.3 Resources.....	18
6.1.3.1 Overview.....	18
6.1.3.2 Resource: MBS Distribution sessions collection (Collection)	19
6.1.3.2.1 Description	19
6.1.3.2.2 Resource Definition.....	19
6.1.3.2.3 Resource Standard Methods	19
6.1.3.2.3.1 POST.....	19
6.1.3.2.4 Resource Custom Operations	20
6.1.3.3 Resource: Individual MBS distribution session (Document).....	20

6.1.3.3.1	Description	20
6.1.3.3.2	Resource Definition	20
6.1.3.3.3	Resource Standard Methods	21
6.1.3.3.3.1	PATCH	21
6.1.3.3.3.2	DELETE	22
6.1.3.3.3.3	GET	23
6.1.3.3.4	Resource Custom Operations	24
6.1.3.4	Resource: Subscriptions collection for MBS distribution session (Collection)	24
6.1.3.4.1	Description	24
6.1.3.4.2	Resource Definition	24
6.1.3.4.3	Resource Standard Methods	24
6.1.3.4.3.1	POST	24
6.1.3.4.4	Resource Custom Operations	26
6.1.3.5	Resource: Individual subscription for an MBS distribution session (Document)	26
6.1.3.5.1	Description	26
6.1.3.5.2	Resource Definition	26
6.1.3.5.3	Resource Standard Methods	26
6.1.3.5.3.1	DELETE	26
6.1.3.5.3.2	PATCH	27
6.1.3.5.4	Resource Custom Operations	29
6.1.4	Custom Operations without associated resources	29
6.1.5	Notifications	29
6.1.5.1	General	29
6.1.5.2	StatusNotify	29
6.1.5.2.1	Description	29
6.1.5.2.2	Target URI	29
6.1.5.2.3	Standard Methods	29
6.1.6	Data Model	30
6.1.6.1	General	30
6.1.6.2	Structured data types	31
6.1.6.2.1	Introduction	31
6.1.6.2.2	Type: CreateReqData	32
6.1.6.2.3	Type: CreateRspData	32
6.1.6.2.4	Type: DistSession	33
6.1.6.2.5	Type: ObjDistributionData	34
6.1.6.2.6	Type: PktDistributionData	36
6.1.6.2.7	Type: StatusSubscribeReqData	36
6.1.6.2.8	Type: StatusSubscribeRspData	37
6.1.6.2.9	Type: StatusNotifyReqData	37
6.1.6.2.10	Type: DistSessionSubscription	37
6.1.6.2.11	Type: DistSessionEventReportList	38
6.1.6.2.12	Type: DistSessionEventReport	38
6.1.6.2.13	Type: UpTrafficFlowInfo	38
6.1.6.2.14	Type: MbStfIngestAddr	39
6.1.6.2.15	Type: ExtSsm	41
6.1.6.3	Simple data types and enumerations	41
6.1.6.3.1	Introduction	41
6.1.6.3.2	Simple data types	41
6.1.6.3.3	Enumeration: DistSessionState	41
6.1.6.3.4	Enumeration: ObjDistributionOperatingMode	41
6.1.6.3.5	Enumeration: ObjAcquisitionMethod	41
6.1.6.3.6	Enumeration: PktDistributionOperatingMode	42
6.1.6.3.7	Enumeration: DistSessionEventType	42
6.1.6.3.8	Enumeration: PktIngestMethod	42
6.1.6.4	Data types describing alternative data types or combinations of data types	42
6.1.6.5	Binary data	43
6.1.7	Error Handling	43
6.1.7.1	General	43
6.1.7.2	Protocol Errors	43
6.1.7.3	Application Errors	43
6.1.8	Feature negotiation	43
6.1.9	Security	43

6.1.10 HTTP redirection44

Annex A (normative): OpenAPI specification45

A.1 General45

A.2 Nmbstf_DistSession API.....45

Annex B (informative): Change history56

History57

Sample Document

get full document from standards.iteh.ai

Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
 - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

In the present document, modal verbs have the following meanings:

shall indicates a mandatory requirement to do something

shall not indicates an interdiction (prohibition) to do something

The constructions "shall" and "shall not" are confined to the context of normative provisions, and do not appear in Technical Reports.

The constructions "must" and "must not" are not used as substitutes for "shall" and "shall not". Their use is avoided insofar as possible, and they are not used in a normative context except in a direct citation from an external, referenced, non-3GPP document, or so as to maintain continuity of style when extending or modifying the provisions of such a referenced document.

should indicates a recommendation to do something

should not indicates a recommendation not to do something

may indicates permission to do something

need not indicates permission not to do something

The construction "may not" is ambiguous and is not used in normative elements. The unambiguous constructions "might not" or "shall not" are used instead, depending upon the meaning intended.

can indicates that something is possible

cannot indicates that something is impossible

The constructions "can" and "cannot" are not substitutes for "may" and "need not".

will indicates that something is certain or expected to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

will not indicates that something is certain or expected not to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

might indicates a likelihood that something will happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

might not indicates a likelihood that something will not happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

In addition:

is (or any other verb in the indicative mood) indicates a statement of fact

is not (or any other negative verb in the indicative mood) indicates a statement of fact

The constructions "is" and "is not" do not indicate requirements.

Sample Document

get full document from standards.iteh.ai

1 Scope

The present document specifies the stage 3 protocol and data model for the Nmbstf Service Based Interface. It provides stage 3 protocol definitions and message flows, and specifies the API for each service offered by the MBSTF.

The 5G System stage 2 architecture and procedures are specified in 3GPP TS 23.501 [2] and 3GPP TS 23.502 [3]. The 5G Multicast-Broadcast Session Management Services for 5G System is specified in 3GPP TS 23.247 [15] and the User Service Architecture for 5G Multicast-Broadcast Services is specified in 3GPP TS 26.502 [17].

The Technical Realization of the Service Based Architecture and the Principles and Guidelines for Services Definition are specified in 3GPP TS 29.500 [4] and 3GPP TS 29.501 [5].

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 23.501: "System Architecture for the 5G System; Stage 2".
- [3] 3GPP TS 23.502: "Procedures for the 5G System; Stage 2".
- [4] 3GPP TS 29.500: "5G System; Technical Realization of Service Based Architecture; Stage 3".
- [5] 3GPP TS 29.501: "5G System; Principles and Guidelines for Services Definition; Stage 3".
- [6] OpenAPI: "OpenAPI Specification Version 3.0.0", <https://spec.openapis.org/oas/v3.0.0>.
- [7] 3GPP TR 21.900: "Technical Specification Group working methods".
- [8] 3GPP TS 33.501: "Security architecture and procedures for 5G system".
- [9] IETF RFC 6749: "The OAuth 2.0 Authorization Framework".
- [10] 3GPP TS 29.510: "5G System; Network Function Repository Services; Stage 3".
- [11] IETF RFC 9113: "HTTP/2".
- [12] IETF RFC 8259: "The JavaScript Object Notation (JSON) Data Interchange Format".
- [13] IETF RFC 9457: "Problem Details for HTTP APIs".
- [14] IETF RFC 6902: "JavaScript Object Notation (JSON) Patch".
- [15] 3GPP TS 23.247: "Architectural enhancements for 5G multicast-broadcast services; Stage 2".
- [16] 3GPP TS 29.571: "5G System; Common Data Types for Service Based Interfaces; Stage 3".
- [17] 3GPP TS 26.502: "5G multicast-broadcast services; User Service architecture; Stage 2".
- [18] 3GPP TS 29.580: "5G System; Multicast/Broadcast Service Function services; Stage 3".
- [19] IETF RFC 5775: "Asynchronous Layered Coding (ALC) Protocol Instantiation".

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in 3GPP TR 21.905 [1].

For the definitions of the basic SBI notions (e.g. apiRoot, API URI, Callback URI, etc.), SBI specific abbreviations (e.g. CRUD, YAML, etc.), special characters, operators and delimiters that are used by SBI specifications, see clause 3 in 3GPP TS 29.501 [5].

3.2 Symbols

For the purposes of the present document, the following symbols apply:

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

5MBS	5G Multicast-Broadcast Services
AF	Application Function
ALC	Asynchronous Layered Coding
AS	Application server
DNN	Data Network Name
MBSF	Multicast/Broadcast Service Function
MBSTF	Multicast/Broadcast Service Transport Function
MB-SMF	Multicast/Broadcast Session Management Function
MB-UPF	Multicast/Broadcast User Plane Function
NEF	Network Exposure Function
NF	Network Function
S-NSSAI	Single Network Slice Selection Assistance Information
TSI	Transmission Session Identifier
URI	Uniform Resource Identifier

4 Overview

4.1 General

Within the 5GC, the MBSTF offers services to the MBSF via the Nmbstf service based interface (see 3GPP TS 23.501 [2] and 3GPP TS 26.502 [17]).

Figure 4.1 provides the reference model (in service based interface representation and in reference point representation), with focus on the MBSTF and the scope of the present specification.

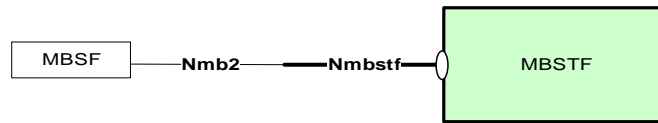


Figure 4-1: Reference model – MBSTF

Nmb2 is the reference point between MBSF and MBSTF.

The functionalities supported by the MBSTF are listed in clause 5.3.2.12 of 3GPP TS 23.247 [15].

The services and service operations provided by the Nmbstf interface are listed in clause 7.3 of 3GPP TS 26.502 [17].

5 Services offered by the MBSTF

5.1 Introduction

Table 5.1-1 summarizes the SBI services produced by the MBSTF.

Table 5.1-1: NF Services provided by MBSTF

Service Name	Description	Example Consumers
Nmbstf_MBSDistributionSession	Manage (e.g. Create, Modify, Delete) a new MBS Distribution Session within the MBSTF.	MBSF

Table 5.1-2 summarizes the corresponding APIs defined for this specification.

Table 5.1-2: API Descriptions

Service Name	Clause	Description	OpenAPI Specification File	apiName	Annex
Nmbstf_MBSDistributionSession	5.2	MBSTF Distribution Session Service	TS29581_Nmbstf_DistSession.yaml	nmbstf-distsession	A.2

5.2 Nmbstf_MBSDistributionSession Service

5.2.1 Service Description

The Nmbstf_MBSDistributionSession service operates on MBS distribution sessions. The following are the key functionalities of this NF service:

- Creation, modification, retrieval and deletion of MBS Distribution Sessions

Table 5.2.1-1 lists the service operations that are supported by the Nmbstf_MBSDistributionSession service.

Table 5.2.1-1: Service operations supported by the Nmbstf_MBSDistributionSession service

Service Operations	Description	Operation Semantics	Example Consumers
Create	Create a new MBS Distribution Session within the MBSTF	Request / Response	MBSF
Update	Update an existing MBS Distribution Session	Request / Response	MBSF
Destroy	Delete an existing MBS Distribution Session	Request / Response	MBSF
Retrieve	Retrieve the parameters of an existing MBS Distribution Session	Request / Response	MBSF
StatusSubscribe	Subscribe to notifications related to an MBS Distribution Session	Subscribe/ Notify	MBSF
StatusUnsubscribe	Unsubscribe from notifications related to an MBS Distribution Session		MBSF
StatusNotify	Notify event(s) related to an MBS Distribution Session		MBSF

5.2.2 Service Operations

5.2.2.1 Introduction

See Table 5.2.1-1 for an overview of the service operations supported by the Nmbstf_MBSDistributionSession service.

5.2.2.2 Create

5.2.2.2.1 General

The Create service operation shall be used to create a new MBS Distribution Session within the MBSTF (see clauses 5.2, 4.5.2 of 3GPP TS 26.502 [17]).

The NF Service Consumer (e.g. MBSF) shall create an MBS Distribution session in the MBSTF by using the HTTP POST method as shown in Figure 5.2.2.2.1-1.

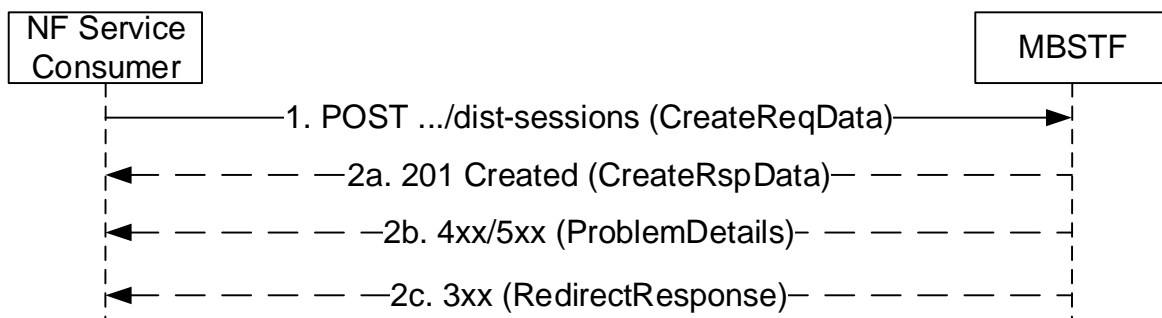


Figure 5.2.2.2.1-1: MBS Distribution session creation

1. The NF Service Consumer shall send a POST request (CreateReqData) targeting the MBS Distribution Sessions collection resource of the MBSTF. The content of the POST request shall contain the following information:
 - The baseline parameters for an MBS Distribution Session including Distribution Session Identifier, and;
 - Additional MBS Distribution Session parameters for Object Distribution Method, or;
 - Additional MBS Distribution Session parameters for Packet Distribution Method;
- 2a. On success, the MBSTF shall return a "201 Created" response. The "Location" header shall be present and shall contain the URI of the created resource. The content of the POST response (CreateRspData) shall contain a representation of the created MBS session.

2b. On failure, one of the HTTP status code listed in Table 6.1.3.2.3.1-3 shall be returned. The message body shall contain a ProblemDetails structure with the "cause" attribute set to one of the application errors listed in Table 6.1.3.2.3.1-3.

2c. On redirection, "307 Temporary Redirect" or "308 Permanent Redirect" shall be returned. A RedirectResponse IE shall be included in the content of POST response.

5.2.2.3 Update

5.2.2.3.1 General

The Update service operation shall be used to update an existing MBS Distribution Session within the MBSTF (see clauses 5.2, 4.5.2 of 3GPP TS 26.502 [17]).

The NF Service Consumer (e.g. MBSF) shall update an MBS Distribution session in the MBSTF by using the HTTP PATCH method as shown in Figure 5.2.2.3.1-1.

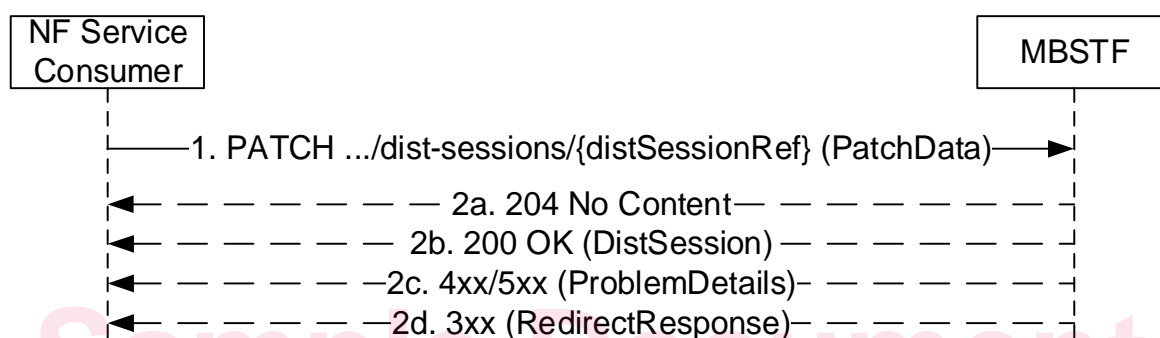


Figure 5.2.2.3.1-1: MBS Distribution session update

1. The NF Service Consumer shall send a PATCH request (PatchData) to update the MBS distribution session.

2a. On success, the MBSTF shall return "204 No Content";

2b. On success, the MBSTF shall return "200 OK" containing new resource representation of MBS distribution session;

2c. On failure, one of the HTTP status code listed in Table 6.1.3.3.3.1-3 shall be returned. The message body shall contain a ProblemDetails structure with the "cause" attribute set to one of the application errors listed in Table 6.1.3.3.3.1-3.

2d. On redirection, "307 Temporary Redirect" or "308 Permanent Redirect" shall be returned. A RedirectResponse IE shall be included in the content of PATCH response.

5.2.2.4 Destroy

5.2.2.4.1 General

The Destroy service operation shall be used to delete an existing MBS Distribution Session within the MBSTF (see clauses 5.2, 4.5.2 of 3GPP TS 26.502 [17]).

The NF Service Consumer (e.g. MBSF) shall delete an MBS Distribution session in the MBSTF by using the HTTP DELETE method as shown in Figure 5.2.2.4.1-1.

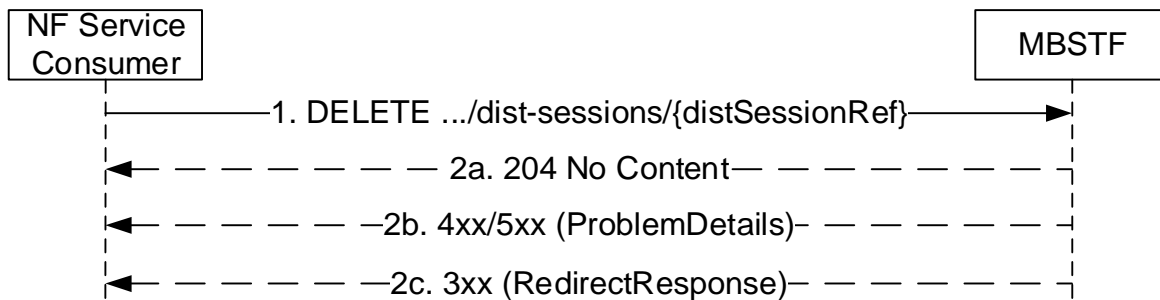


Figure 5.2.2.4.1-1: MBS Distribution session deletion

1. The NF Service Consumer shall send a DELETE request (distSessionRef) to release the MBS distribution session.
- 2a. On success, the MBSTF shall delete the MBS distribution session and return a "204 No Content" response.
- 2b. On failure, one of the HTTP status code listed in Table 6.1.3.3.3.2-3 shall be returned. The message body shall contain a ProblemDetails structure with the "cause" attribute set to one of the application errors listed in Table 6.1.3.3.3.2-3.
- 2c. On redirection, "307 Temporary Redirect" or "308 Permanent Redirect" shall be returned. A RedirectResponse IE shall be included in the content of DELETE response.

5.2.2.5 Retrieve

5.2.2.5.1 General

The Retrieve service operation shall be used to retrieve the parameters of an existing MBS Distribution Session within the MBSTF (see clauses 5.2, 4.5.2 of 3GPP TS 26.502 [17]).

The NF Service Consumer (e.g. MBSF) shall retrieve an MBS Distribution session in the MBSTF by using the HTTP GET method as shown in Figure 5.2.2.5.1-1.

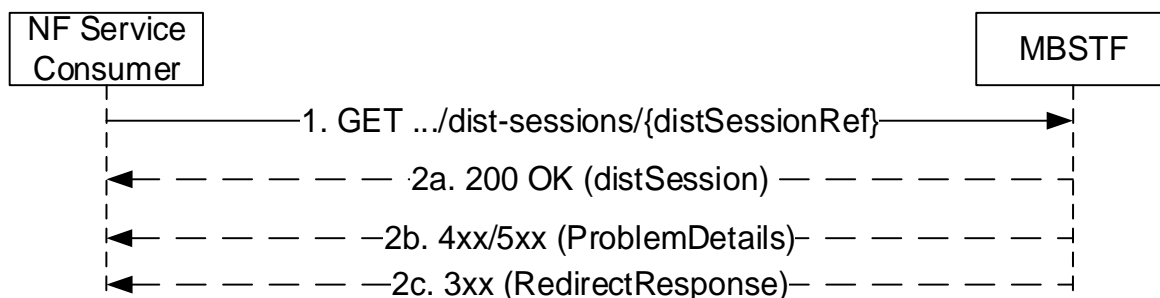


Figure 5.2.2.5.1-1: MBS Distribution session retrieval

1. The NF Service Consumer shall send a GET request to the resource representing the MBS distribution session (distSessionRef).
- 2a. On success, the MBSTF shall respond with "200 OK" with the message body containing parameters of the distribution session (distSession).
- 2b. On failure, one of the HTTP status code listed in Table 6.1.3.3.3.3-3 shall be returned. The message body shall contain a ProblemDetails structure with the "cause" attribute set to one of the application errors listed in Table 6.1.3.3.3.3-3.
- 2c. On redirection, "307 Temporary Redirect" or "308 Permanent Redirect" shall be returned. A RedirectResponse IE shall be included in the content of GET response.

5.2.2.6 StatusSubscribe service operation

5.2.2.6.1 General

The StatusSubscribe service operation shall be used by an NF Service Consumer (e.g. MBSF) to create a subscription to the MBSTF notifications related to the event(s) of an MBS distribution session.

5.2.2.6.2 Subscription creation

The NF Service Consumer (e.g. MBSF) shall subscribe to MBSTF service notifications by using the HTTP POST method as shown in Figure 5.2.2.6.2-1.

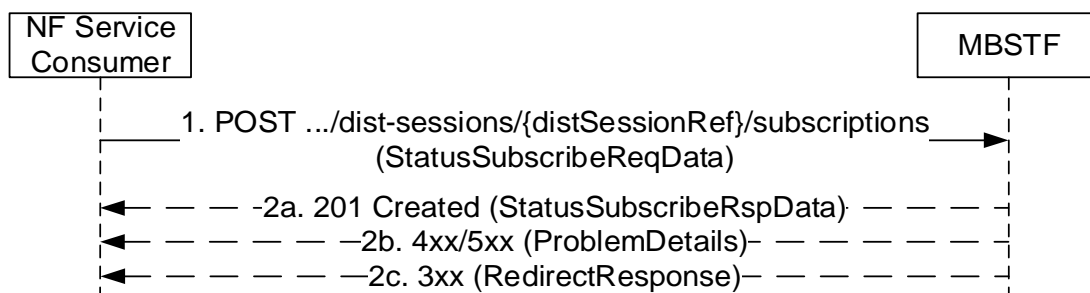


Figure 5.2.2.6.2-1: Subscribing to MBSTF notifications

1. The NF Service Consumer shall send a POST request (StatusSubscribeReqData) to the resource URI representing the subscriptions collection resource in the MBSTF. The content of the POST request shall contain:
 - the list of MBS distribution session events requested to be subscribed.
 - the Notification URI, indicating the address where the MBSTF shall send the notifications;

The request body may also contain:

- an expiry time suggested by the NF Service Consumer, representing the time span during which the subscription is desired to be kept active; and
 - Notification Correlation ID;
- 2a. On success, the MBSTF shall return a "201 Created" response. The "Location" header shall be present and shall contain the URI of the created resource. The content of the POST response (StatusSubscribeRspData) shall include:
 - the Distribution Session Identifier;
 - the list of events successfully subscribed;
 - the expiry time after which the subscription becomes invalid.
 - 2b. On failure, one of the HTTP status code listed in the data structures supported by the POST Response Body (see Table 6.1.3.4.3.1-3) shall be returned. The message body shall contain a ProblemDetails structure with the "cause" attribute set to one of the application error listed in the same Table 6.1.3.4.3.1-3).
 - 2c. On redirection, "307 Temporary Redirect" or "308 Permanent Redirect" shall be returned. A RedirectResponse IE shall be included in the content of POST response.