

MTAS Trunk Group Management Guide

MTAS

USER GUIDE

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1 Introduction

This document describes how to configure the Trunk Group service in MTAS.

1.1 Prerequisites

It is assumed that the user of this document is familiar with the O&M area, in general.

1.1.1 Documents

Before starting any procedure in this document, ensure that the following document is available:

- Managed Object Model (MOM)





2 Overview

The Trunk Group service of the MMTel AS emulates an originating PSTN Gateway (RFC4904) providing trunk group information to be used in IMS core routing, based on either the dialed number, call type or if the call is voicemail.

The Trunk Group service is applicable to originating calls of wireline subscribers (including terminating diversions). It adds configured `tgrp` and `trunk-context` parameters to the Contact header of the outgoing INVITE. The values of the parameters are primarily determined by if the call is a voicemail retrieval or deposit, secondary from B-Number type and ultimately from call type.

Trunk Group information added by the MMTel AS to the Contact header in the downstream direction, is removed from in-dialog SIP requests sent upstream.

2.1 Subfunctions

2.1.1 Adding `tgrp` and `trunk-context` Based on Voicemail Retrieval or Deposit

The MMTel AS first checks if the ongoing call is a voicemail retrieval or deposit, and if the Trunk Group function is configured, see Section 3 on page 5, to be triggered by that. If both are fulfilled, the `tgrp` and `trunk-context` parameters are added to the Contact header of outgoing INVITE.

2.1.2 Adding `tgrp` and `trunk-context` Based on B-Number Type

If the preconditions in Section 2.1.1 Adding `tgrp` and `trunk-context` Based on Voicemail Retrieval or Deposit on page 3 are not met, the MMTel AS checks if there is a B-Number classification and if the Trunk Group function is configured, see Section 3 on page 5, to be triggered by that. If both are fulfilled, the `tgrp` and `trunk-context` parameters are added to the Contact header of outgoing INVITE.

2.1.3 Adding `tgrp` and `trunk-context` Based on Call Type

If the preconditions in Section 2.1.2 Adding `tgrp` and `trunk-context` Based on B-Number Type on page 3 are not met, MMTel AS checks if there is a call type classification and if the Trunk Group function is configured, see Section 3 on page 5, to be triggered by that. If both are fulfilled, the `tgrp` and `trunk-context` parameters are added to the Contact header of outgoing INVITE.





3 Trunk Group Service Configurations

The Trunk Group service is controlled by the MtasTrunkGroup Managed Object Class (MOC).

The Managed Object (MO) structure of the MtasTrunkGroup service is shown in Figure 1.

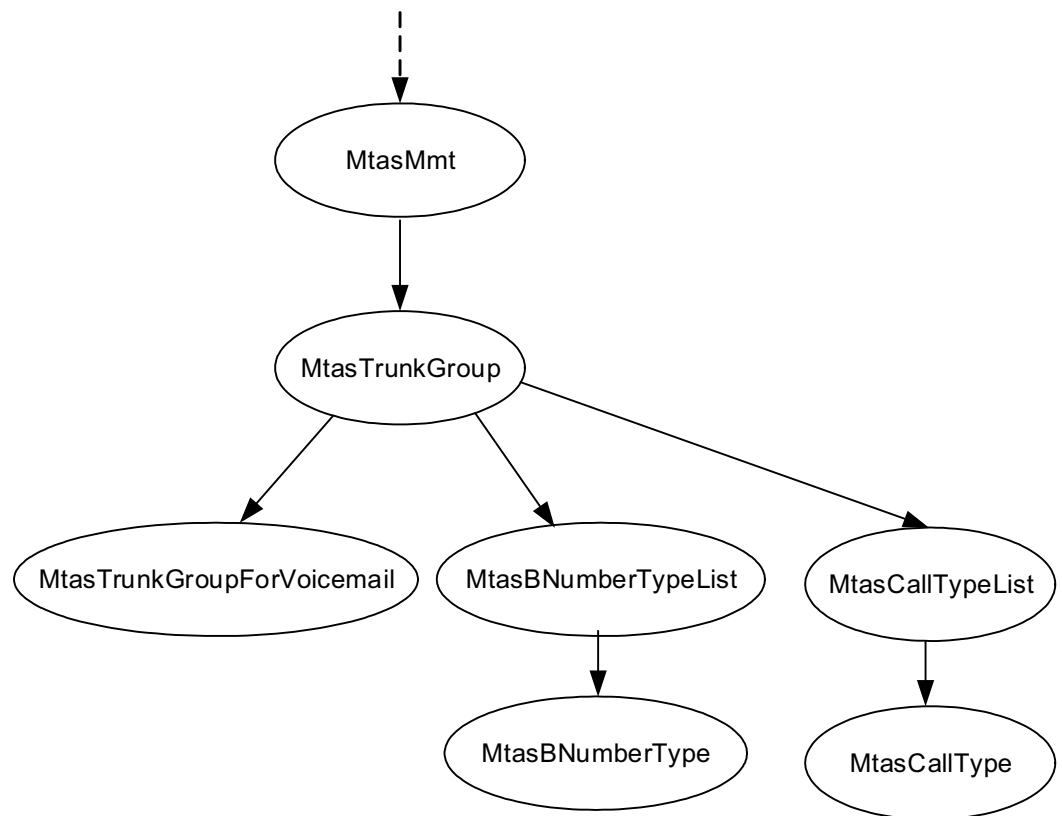


Figure 1 Trunk Group Service MO Structure

For configurable MOs and attributes related to general Trunk Group service configuration, refer to *Managed Object Model (MOM)*.

3.1 Voicemail

To configure addition of `tgrp` and `trunk-context` based for voicemail retrieval or deposit, the attribute `mtasTrunkGroupForVoiceMailRetrievalOrDeposit` must be set to `TRUE`. The Contact header gets populated with the `tgrp` value defined by the `mtasTrunkGroupForVoiceMailTrunkGroup` attribute and `trunk-context` is defined by the `mtasTrunkGroupForVoiceMailTrunkContext` attribute, respectively.



3.2 B-Number Type

Entries keyed on B-Number type can be added to the attribute `MtasBNumberTypeList`. If there are no `tgrp` and `trunk-context` additions based on voicemail, but there is a B-Number type classification for the call and a matching entry in `MtasBNumberTypeList`, then the Contact header gets populated with the `tgrp` value defined by the `mtasBNumberTypeTrunkGroup` attribute and `trunk-context` is defined by the `mtasBNumberTypeTrunkContext` attribute, respectively, of the matching entry.

For supported B-Number types, see [MTAS Number Translation Management Guide](#).

3.3 Call Type

Entries keyed on call type can be added to the attribute `MtasCallTypeList`. If there are no `tgrp` or `trunk-context` additions based on B-Number type, but the number analysis function has a call type defined and there is a matching entry in `MtasCallTypeList`, then the Contact header gets populated with the `tgrp` value defined by the `mtasCallTypeTrunkGroup` attribute and `trunk-context` is defined by the `mtasCallTypeTrunkContext` attribute, respectively, of the matching entry.

Supported call types are:

- Local
- Non-Local
- IntraLata
- IntraLata Toll
- InterLata
- InterLataLocal
- International
- National
- NanpZone1



4 Performance Management

MTAS does not create any statistics for Trunk Group service invocations.





5 Fault Management

There are no alarms related to the Trunk Group service.