

MTAS Parlay X Management Guide

MTAS

USER GUIDE

Copyright

© Ericsson AB 2016–2018. All rights reserved. No part of this document may be reproduced in any form without the written permission of the copyright owner.

Disclaimer

The contents of this document are subject to revision without notice due to continued progress in methodology, design and manufacturing. Ericsson shall have no liability for any error or damage of any kind resulting from the use of this document.

Trademark List

All trademarks mentioned herein are the property of their respective owners. These are shown in the document Trademark Information.



Contents

1	Introduction	1
1.1	Prerequisites	1
2	Overview	3
2.1	Call Notification	3
2.2	Third-Party Call	3
2.3	External Parlay X Application Server Redundancy	3
2.4	Subfunctions	4
2.5	Interaction with Other Services	4
3	Parlay X Configuration	5
3.1	Call Notification	5
3.2	Third-Party Call	6
3.3	Change Local Port	7
3.4	Service Data Configuration	8
3.5	Select IP Protocol Version	8
4	Performance Management	9
5	Fault Management	11





1 Introduction

This document describes how to configure the Parlay X service in the 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 Licenses

To enable the Parlay X services, the Service Exposure license must be installed.

For more information about the Service Exposure license, refer to [MTAS Licenses](#).

1.1.2 Documents

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

- [Ericsson Command-Line Interface User Guide](#)
- [Managed Object Model \(MOM\)](#)

1.1.3 Conditions

The following condition must apply:

- An Ericsson Command-Line Interface (ECLI) session in Exec mode is in progress.





2 Overview

This document describes the Parlay X services that the MTAS offers to its subscribers. The Parlay X service is not part of the MMTEL service format, they execute in a separate Parlay X service format.

The MTAS partly supports two Parlay X interfaces. For 3GPP Call Notification standard, refer to [3GPP TS 29.199-02 Open Service Access \(OSA\); Parlay X web services; Part 2: Third party call](#) and for Third-Party Call 3GPP standard, refer to [3GPP TS 29.199-02 Open Service Access \(OSA\); Parlay X web services; Part 3: Call notification](#).

For details about the support, refer to [Parlay X MMTEL Extensions](#).

Call Notification enables a Parlay X application, external to MTAS, to translate the originally called party number into a new target number.

Third-Party Call enables a Parlay X application, external to MTAS, to initiate a call setup between two parties.

2.1 Call Notification

The Parlay X Call Notification interface in MTAS operates on number ranges. These number ranges must be provisioned as CSCF triggers. When a called number is within a provisioned range, a CSCF trigger fire and direct the call to a port in MTAS that is configured to handle this number range. For details about configuration, related to Parlay X, see Section 3 on page 5.

2.2 Third-Party Call

Charging for the use of the Third-Party Call interface relies on that a user, representing the Parlay X application that initiates the Third-Party Call, is provisioned in the HSS. This user is charged for the two outgoing calls created by the Third-Party Call interface, using the data provisioned for this user. MTAS supports using the Third-Party Call interface without any user representing the Parlay X application defined in the HSS. In this case, no charging for using the Third-Party Call interface.

2.3 External Parlay X Application Server Redundancy

MTAS supports DNS-based redundancy of the External Parlay X Application Server in relation with the Call Notification interface.

The following failure situations exist:

- The Parlay X request timer, hard-coded to 300 ms, expires.



- Any HTTP Error is received from the Parlay X Application Server.
- A communication error between MTAS and Parlay X Application Server takes place.

When one of the failure situations are encountered, and there is alternative Parlay X Application Server address received from DNS, the request is resent to the alternative Server, the Parlay X request timer is restarted, and the `mtasFuncFailover` PM counter is stepped.

If a communication error occurs, the failed server is put on the blacklist for the time duration specified by CM attribute `IcmpBarringTime`. (If the network error is detected by receiving an ICMP Destination Unreachable (3) packet with net unreachable (0), host unreachable (1), protocol unreachable (2), port unreachable (3) reason, or ICMP Parameter Problem (12) packet) or by CM attribute `mtasFunctionBlackListTime` (any other reason). While the server is on the blacklist, new requests cannot be received.

2.4 Subfunctions

There are no subfunctions included in the Parlay X service.

2.5 Interaction with Other Services

There is no interaction with other services.



3 Parlay X Configuration

The Parlay X service is controlled by the `MtasParlayX` Managed Object (MO). The `MtasParlayX` MO has a child, `MtasParlayXBehaviourProfile`, that can be referenced by an instance of a `MtasParlayXCallNotificationService`.

An overview of the Parlay X MO structure is shown in Figure 1.

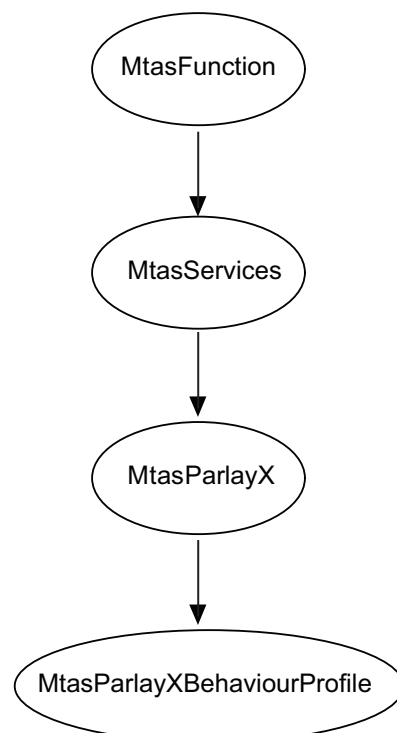


Figure 1 Parlay X MO Structure

For configurable MOs and attributes related to general Parlay X configuration, refer to [Managed Object Model \(MOM\)](#).

3.1 Call Notification

The Call Notification interface is controlled by the `MtasParlayXCallNotification` MO and the instances of the `MtasParlayXCallNotificationService` MO. A Call Notification service can reuse a certain behavior by referencing a `MtasParlayXBehaviourProfile`.

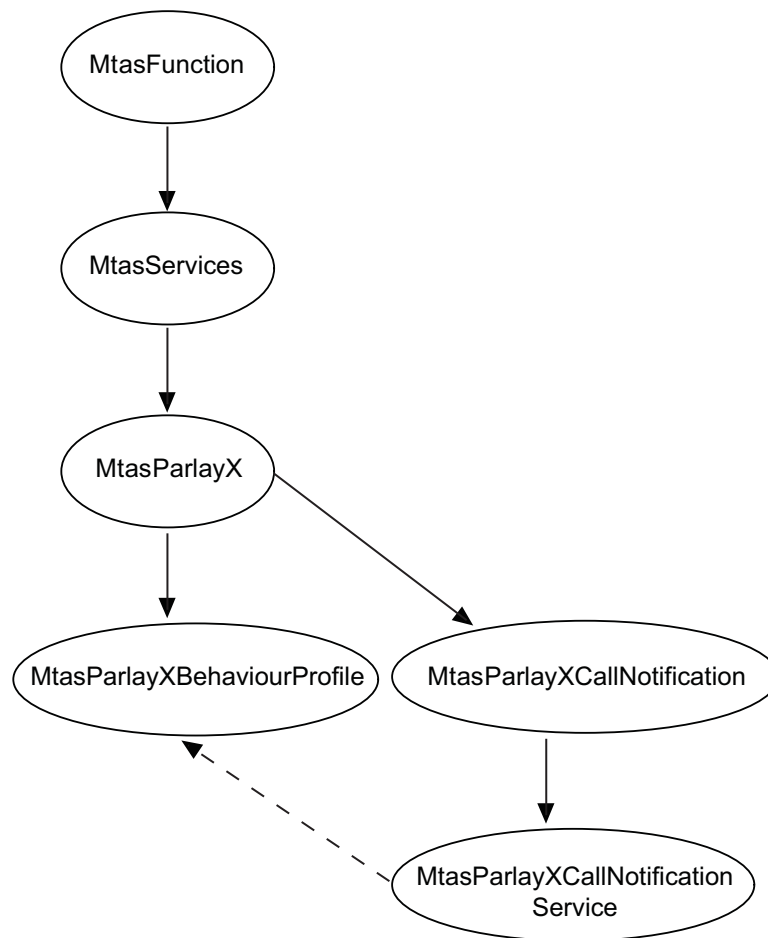


Figure 2 Call Notification MO Structure

For configurable MOs and attributes related to the `CallNotification` interface, refer to *Managed Object Model (MOM)*.

3.2 Third-Party Call

The Third-Party Call interface is controlled by the `MtasParlayX3pcc` MO.

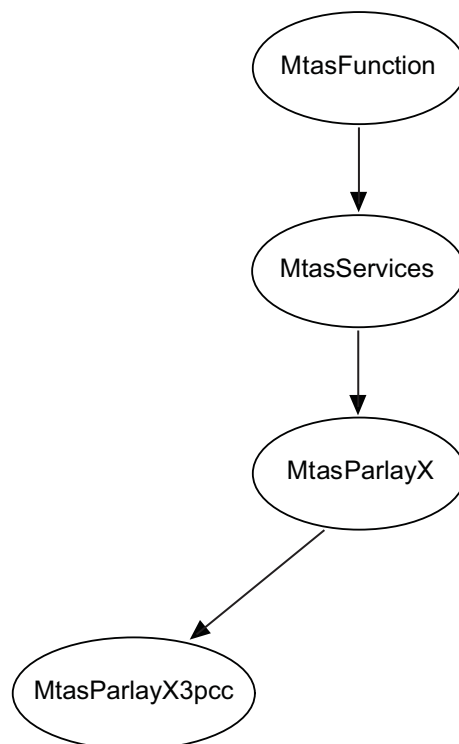


Figure 3 Parlay X MO Structure

For configurable MOs and attributes related to the Third-Party Call interface, refer to [Managed Object Model \(MOM\)](#).

3.3 Change Local Port

Note: This procedure is also affect the HTTP Cx interface used in the External MRFC.

To change the local HTTP port:

1. Deactivate the `MtasFunction` MO, as described in [MTAS VNF Management Guide](#).
2. Ensure that the `mtasFunctionAdministrativeState` attribute is set to `0` (Locked).
3. Navigate to the `MtasWebServices` MO.
4. Change the `mtasWebServicesLocalPort` parameter.

For a complete description of the attributes, refer to [Managed Object Model \(MOM\)](#).

5. Click **Submit**.



6. To open traffic for a new port number, remove VIP Mappings for old UDP and TCP port number, and then insert VIP Mappings with the same data for the new UDP and TCP port number. This process is for the used IPv4 or IPv6 protocol.

For information on VIP Mappings, refer to [Virtual IP Address Management](#).

7. Perform a backup, refer to [Create Backup](#).

3.4 Service Data Configuration

This section describes how to configure the service data.

3.4.1 Operator Subscription Level Service Configuration

No service data for Parlay X is configured in the operator part of the subscriber data.

3.4.2 Subscriber Subscription Level Service Configuration

No service data for Parlay X is configured in the subscriber part of the subscriber data.

3.5 Select IP Protocol Version

The `mtasParlayXIpVersion` attribute sets the IP protocol version.

To modify the IP version attribute:

1. Navigate to the `mtasParlayX` MO.
2. Set the `mtasParlayXIpVersion` attribute to 0 (IPv4) or 1 (IPv6).
3. Click **Submit**.
4. Perform a backup, refer to [Create Backup](#).



4 Performance Management

For measurements related to the Parlay X service, refer to MTAS Performance Measurements.





5 Fault Management

For alarms related to the Parlay X service, refer to [MTAS Alarm List](#).