

MTAS Calling Name Identity Presentation Management Guide

MTAS

USER GUIDE

Copyright

© Ericsson AB 2016, 2019. 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
3	Configure OCNIP or CNIP Service	5
3.1	Activate OCNIP or CNIP Service	5
3.2	Deactivate OCNIP or CNIP Service	5
3.3	Modify OCNIP or CNIP Mode	5
3.4	Modify CNIP Time-out	6
3.5	Calling Name Server Redundancy	6
3.6	Select IP Protocol Version	7
3.7	Modify Default Display Name	7
3.8	Modify Privacy Display Name	8
3.9	Modify OIR Override Skip Query	8





1 Introduction

This document describes how to configure the Originating Calling Name Identity Presentation (OCNIP) and the Calling Name Identity Presentation (CNIP) service in the MTAS.

1.1 Prerequisites

It is assumed that the user of this document is familiar with the Operation and Maintenance (O&M) area, in general.

1.1.1 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)
- MTAS Service Management Guide
- MTAS Supplementary Service Codes Management Guide
- NameDb

1.1.2 Conditions

The following condition must apply:

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



To change the administrative state of the OCNIP service, the following conditions must apply:

- The `mtasIdPresAdministrativeState` attribute must be unlocked, see [MTAS Service Management Guide](#).

To change the administrative state of the CNIP service, the following conditions must apply:

- The `mtasIdPresAdministrativeState` attribute must be unlocked, see [MTAS Service Management Guide](#).
- If `mtasIdPresCnipProtocol` is 0 (SOAP), then `mtasIdPresDbUri` attribute must contain a valid URI.
- If `mtasIdPresCnipProtocol` is 1 (SIP), then `mtasIdPresCnipServerName` attribute must contain a valid address of Calling Name Server (CNS).

Note: When `mtasIdPresCnipProtocol` is set to SIP (1), MTAS still behaves as if SOAP (0) is set. This is for future use.



2 Overview

The purpose of the OCNIP as well as the CNIP service is to alter the originating identity presented in a communication based on the preferences of the participants. These services are managed by the operator and not by the end user..

The OCNIP is an originating service that retrieves the callers display name from already provisioned subscribers data and inserts this in the outgoing SIP signalling from the originating MTAS.

The CNIP is a terminating service that retrieves the caller's display name from the CNS and inserts this in the outgoing SIP signalling from the terminating MTAS.

There are two categories of configuration on node level:

- Identity Presentation
- OCNIP or CNIP

For more information on service management of the Identity Presentation, see [MTAS Service Management Guide](#).

For more information on supplementary service codes, see [MTAS Supplementary Service Codes Management Guide](#).

It is the administrative state of the OCNIP or CNIP function that decides if the function is activated (Unlocked) or deactivated (Locked).

The OCNIP service replaces the display name portion of the originating user identity with a name retrieved from the subscriber data.

Note: Provisioning of display name in the subscriber data is outside the scope of this document.

The CNIP service replaces the display name portion of the identity information in the From and PAI headers of the originating participant with the retrieved calling name from an external database CNS.

Both OCNIP and CNIP services can operate in one of the two modes, where the operator can control when to query the name database CNS:

- `always`: In this mode, the CNS is always queried or the provisioned display name always used.
- `interrogate-on-unavailability`: In this mode, the CNS is only queried or the provisioned display name only used when the display names are absent in both the From and P-Asserted-Identity headers.



The operator can control whether the query to the CNS or use of provisioned display name is to take place always or only when both the From and P-Asserted-Identity display names are absent from the request.

The amount of time that the MTAS waits for the CNS to answer a query can be controlled by the `mtasIdPresCnipTimeout` attribute.

The CNIP function relies on the Web Services interface to perform the queries to the CNS.

For more information about the Web Services, see [NameDb](#).



3 Configure OCNIP or CNIP Service

The following sections describe how to configure the OCNIP or CNIP service.

3.1 Activate OCNIP or CNIP Service

To be able to activate the OCNIP or CNIP service, the `mtasIdPresAdministrativeState` attribute must be unlocked. For CNIP, a valid URI for the `mtasIdPresDbUri` attribute must exist.

For more details, see [MTAS Service Management Guide](#), and [Managed Object Model \(MOM\)](#).

To activate the OCNIP or CNIP service:

1. Navigate to the `MtasIdPres` MO.
2. Set the `mtasIdPresOcnipAdminState` or `mtasIdPresCnipAdminState` attribute to 1 (Unlocked).
3. Click **Submit**.
4. Create a backup.

For more information on creating a backup, see [Create Backup](#).

3.2 Deactivate OCNIP or CNIP Service

To deactivate the OCNIP or CNIP service:

1. Navigate to the `MtasIdPres` MO.
2. Set the `mtasIdPresOcnipAdminState` or `mtasIdPresCnipAdminState` attribute to 0 (Locked).
3. Click **Submit**.
4. Create a backup.

For more information on creating a backup, see [Create Backup](#).

3.3 Modify OCNIP or CNIP Mode

The `mtasIdPresOcnipMode` and `mtasIdPresCnipMode` attributes allow control of when to query the name database CNS in CNIP and if provisioned display name is used in OCNIP.

To modify the OCNIP or CNIP mode:



1. Navigate to the MtasIdPres MO.
2. Perform one of the following options:
 - Set the `mtasIdPresCnipMode` or `mtasIdPresOCnipMode` attribute to 1 (always) for the CNS to always be queried (CNIP) or subscriber data display name to always be used (OCNIP).
 - Set the `mtasIdPresCnipMode` or `mtasIdPresOCnipMode` attribute to 0 (interrogate-on-unavailability) for the CNS to only be queried (CNIP), or the provisioned display name to only be used (OCNIP), when the display names are absent in both the From and P-Asserted-Identity headers.
3. Click **Submit**.
4. Create a backup.

For more information on creating a backup, see [Create Backup](#).

3.4 Modify CNIP Time-out

The `mtasIdPresCnipTimeout` attribute sets the amount of time that the MTAS waits for the CNS to answer a query. The default value is 500 ms.

To modify the time-out attribute:

1. Navigate to the MtasIdPres MO.
2. Set the `mtasIdPresCnipTimeout` attribute to a new value within the range 200–5000.
3. Click **Submit**.
4. Create a backup.

For more information on creating a backup, see [Create Backup](#).

3.5 Calling Name Server Redundancy

MTAS supports DNS-based redundancy of the CNS, for SOAP/HTTP protocols.

The following events can trigger failover to another CNS server:

- The CNIP Time-out timer attribute `mtasIdPresCnipTimeout` expires.
- HTTP Error 404 or 503 is received from the CNS.
- A communication error between MTAS and CNS occurs.

When one of the failure situations is encountered and there is alternative CNS address received from the DNS, the request is resent to the alternative Server, the CNIP Time-out timer is restarted, and the `mtasFuncFailover` Performance Management (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.

For more information about DNS configuration, see [Managed Object Model \(MOM\)](#).

3.6 Select IP Protocol Version

The `mtasIdPresDbIpVersion` attribute sets the IP protocol version of the SOAP interface `NameDb`.

To modify the IP version attribute:

1. Navigate to the `MtasIdPres` MO.
2. Perform one of the following options:
 - Set the `mtasIdPresDbIpVersion` attribute to 1 (IPv6).
 - Set the `mtasIdPresDbIpVersion` attribute to 0 (IPv4).
3. Click **Submit**.
4. Create a backup.

For more information on creating a backup, see [Create Backup](#).

3.7 Modify Default Display Name

The `mtasIdPresDefaultDisplayName` attribute defines the default display name (for example, `Unavailable`) that is copied to the `From` and `PAI` headers in the outgoing SIP signaling under the following conditions:

- There is no display name available for OCNIP or CNIP.
- OCNIP is disabled.
- `mtasIdPres0ipDisplayNameFiltering` is enabled and CNIP is not running.

To modify the default display name attribute:

1. Navigate to the `MtasIdPres` MO.
2. Set the `mtasIdPresDefaultDisplayName` attribute to a new value.
3. Click **Submit**.



4. Create a backup.

For more information on creating a backup, see [Create Backup](#).

3.8 Modify Privacy Display Name

The `mtasIdPresPrivacyDisplayName` attribute defines a display name (for example, `Restricted`) that is copied to the `From` and `PAI` headers in the outgoing SIP signaling when privacy is requested or the Calling Name Server returns the information that the Calling Name Status is `Restricted` for `OCNIP` or `CNIP`.

To modify the privacy display name attribute:

1. Navigate to the `MtasIdPres` MO.
2. Set the `mtasIdPresPrivacyDisplayName` attribute to a new value.
3. Click **Submit**.
4. Create a backup.

For more information on creating a backup, see [Create Backup](#).

3.9 Modify OIR Override Skip Query

The `mtasIdPresCnipOirOverrideSkipQuery` attribute defines whether the query to the name database (CNS) is to take place when OIR override is active. The default value is `0`, that is, the query is done when OIR override is active.

To modify the Oir Override Skip Query attribute:

1. Navigate to the `MtasIdPres` MO.
2. Perform one of the following options:
 - Set the `mtasIdPresCnipOirOverrideSkipQuery` attribute to `1` (query is not done when OIR override is active).
 - Set the `mtasIdPresCnipOirOverrideSkipQuery` attribute to `0` (query is done).
3. Click **Submit**.
4. Create a backup.

For more information on creating a backup, see [Create Backup](#).