

# Network AS Forking IWF Management Guide

MTAS

USER GUIDE

**Copyright**

© Ericsson AB 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

<b>1</b>	<b>Introduction</b>	<b>1</b>
1.1	Prerequisites	1
1.1.1	Licenses	1
1.1.2	Documents	1
1.1.3	Conditions	1
<b>2</b>	<b>Overview</b>	<b>3</b>
<b>3</b>	<b>Forking IWF Service Configuration</b>	<b>5</b>
3.1	Forking IWF Administrative State Configuration	5
3.2	Forking IWF Invocation	5
3.3	Service Data Configuration	6
<b>4</b>	<b>Performance Management</b>	<b>7</b>





# 1 Introduction

This document describes how to configure the Network Application Server (NW AS) Forking Interworking Function (F-IWF) service in 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 Licenses

To enable the F-IWF function, the **Forking Interworking Function** license must be installed. The NW AS Capacity license with the desired capacity value is also required to enable NW AS.

For more information about the F-IWF and NW AS licenses, refer to [MTAS Licenses](#).

### 1.1.2 Documents

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

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

### 1.1.3 Conditions

Before starting any of the procedures described in this document, ensure that the following condition is met:

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





## 2 Overview

The NW AS F-IWF service provides interworking between a caller endpoint lacking support of multiple early dialogs and the IMS network.

The F-IWF service aggregates multiple early dialogues to a single dialogue, keeps track of the media state on multiple-dialog-side, and maps the authorized media towards the single dialog.

Originating UE/network are expected to support reliable provisional responses and SIP UPDATE. F-IWF rejects the session establishment attempt if any of the following occur:

- 100rel is missing in both the Require and Supported header.
- There is no UPDATE in the Allow header.

F-IWF propagates the caller precondition fulfilled to all remote ends.

F-IWF can be configured to be executed on all traffic, or have a flexible invocation mechanism to trigger its execution based on the presence of a SIP header or an attribute in a SIP header in the initial INVITE.







## 3 Forking IWF Service Configuration

The NW AS F-IWF service is controlled by the `MtasFoIw` Managed Object Class (MOC).

The Managed Object (MO) structure of the NW AS F-IWF service is shown in Figure 1.

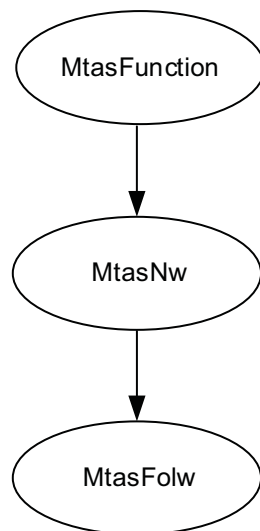


Figure 1 NW AS F-IWF MO Structure

For configurable MOs and attributes related to the NW AS F-IWF service, refer to [Managed Object Model \(MOM\)](#).

### 3.1 Forking IWF Administrative State Configuration

The F-IWF service is enabled by setting the `mtasFowAdministrativeState` attribute in the `MtasFoIw` MO to 1 (Unlocked).

If the `mtasFoIwAdministrativeState` attribute is set to 0 (Locked), no F-IWF service is provided by the NW AS.

### 3.2 Forking IWF Invocation

The F-IWF service can be started from two levels: Initial Filter Criteria (IFC) and CM parameters within MTAS.

The top-most route header must have an "as" parameter with value set to the configured CM attribute `mtasNwFoIwAsName`.



When the IFC has no rule (except "as" to trigger the FoIwf AS), the control is within the CM parameters as follows:

- If the CM attribute `mtasFoIwfMode` is set to `ORIGINATING`, the `P-Served-User` header must be present with parameter `"sescase=orig"`.
- If the CM attribute `mtasFoIwfMode` is set to `TERMINATING`, the `P-Served-User` header must be present with parameter `"sescase=term"`.
- If the CM attribute `mtasFoIwfMode` is set to `ORIGINATING_AND_TERMINATING`, the `P-Served-User` header can have `"sescase=orig"` or `"sescase=term"`.
- If CM attribute `mtasFoIwfMode` is set to `DYNAMIC`, the value configured in the CM attribute `mtasFoIwfInvocationHeaderValue` must be the substring of the parameter in the header configured in the CM attribute `mtasFoIwfInvocationHeaderName`. No extra IFC condition is recommended when the `DYNAMIC` value is set.

For example: attribute `mtasFoIwfInvocationHeaderName` is set to `"Request-Disposition"` and `mtasFoIwfInvocationHeaderValue` is set to `"no-fork"`.

If there is a `"Request-Disposition:no-fork"` header in the initial `INVITE`, then the F-IWF service is started.

When there are several IFC rules, the configuration of CM attributes must not conflict with the IFC rules, it is thus recommended to configure the CM attribute `mtasFoIwfMode` to `ORIGINATING_AND_TERMINATING`.

F-IWF also supports to combine the IFC and CM parameters within MTAS.

### 3.3 Service Data Configuration

This service does not require any service level subscription from operator or user.



## 4 Performance Management

For information on measurements, related to the NW AS F-IWF service, refer to MTAS Performance Measurements.