



MVNE Platform for MNOs

Solution Brief

January, 2024



DISCLAIMER

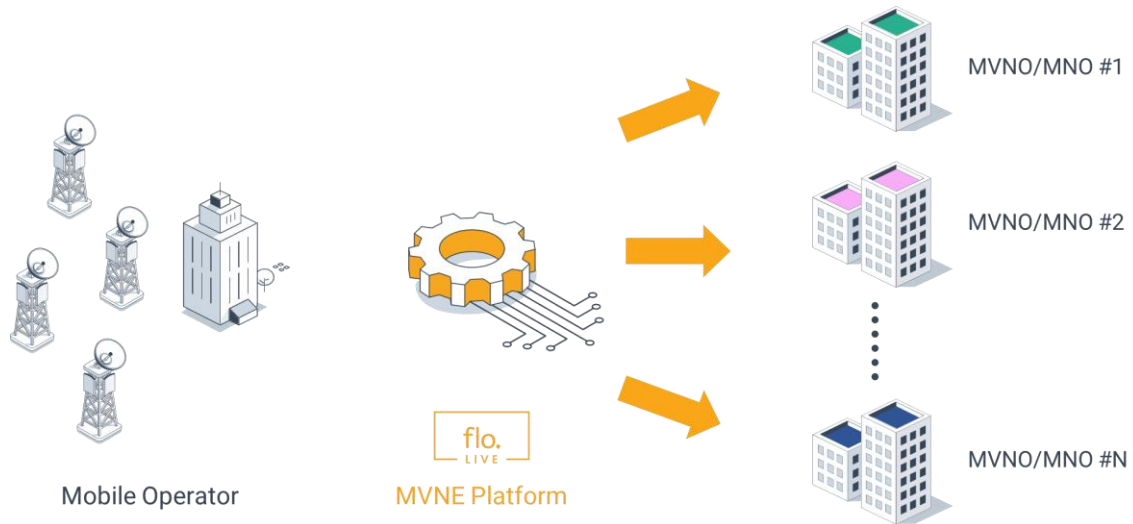
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CONTENTS

Overview	3
Available Options	4
Option A – Light	4
Option B - Full	4

Overview

floLIVE's MVNE solution allows mobile operators to provide their connectivity to other mobile operators or MVNOs while maintaining the ability to monitor, control and limit the usage and complying with local security, privacy or other regulations.



This document outlines the different options and the price for each option.

Available Options

Option A – Light

- In this option, the MVNO behaves like any other tenant on floLIVE's CMP; therefore there are no additional charges.
- This option also supports white labeling the platform for the MVNO.

Benefits for the MNO:

1. Full, real-time visibility of all network traffic and signaling events
2. Ability to suspend any SIMs or IMSIs that violate local laws, regulations or breaching any commercial agreement.
3. Ability to limit the data usage of the MVNO (e.g. 10TB/month)

Option B - Full

In this option, the MVNO uses its own CMP, core network and billing systems.

The MVNE service requires two Network Elements (NEs):

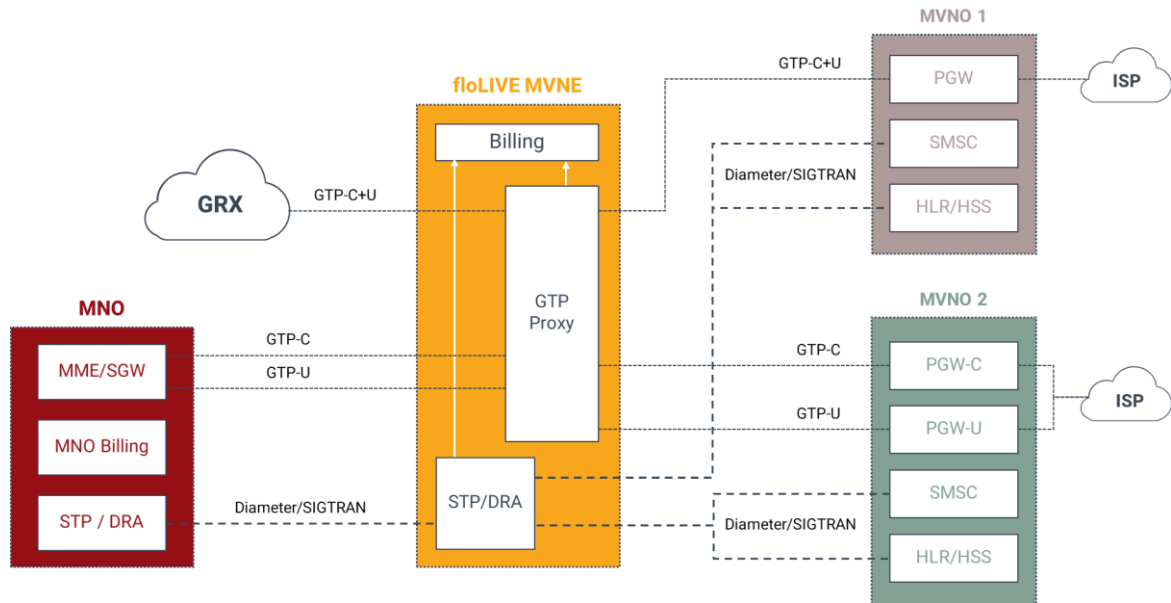
1. STP/DRA – this is the NE responsible for routing signaling messages (DIAMETER) to the relevant MVNO's core network (one of many different core networks)
2. GTP Proxy – this NE is responsible for routing GTP data traffic, both user-plain (GTP-U) and control-plain (GTP-C) towards the MVNO.

Both NEs integrate with the floLIVE CMP that provides configuration, visibility, billing and control over the routed IMSIs.

Billing for the MVNE service is done on a monthly basis, after analyzing the number of IMSIs that have been routed through the STP/DRA and GTP Proxy.

- floLIVE will deploy its MVNE platform that's responsible for two aspects:
 1. Routing of signaling traffic via STP/DRA based on IMSI ranges defined by the MNO, from the MNO network to the MVNO's HLR/HSS and SMSC.
 2. Routing of data traffic, both GTP-C and GTP-U, from the MNO's network to the MVNO's GGSN/PGW, based on IMSI ranges defined by the MNO.
- IT, hosting, network and all other resources to be provided by the MNO.
- The MVNE platform is integrated into the MNO's main CMP (by floLIVE).
- If the MVNO requires its own dedicated core network by floLIVE, then the additional floLIVE core network prices apply, as per price list.

The diagram below depicts the high-level architecture and integration points for Option B:



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