

An aerial photograph showing a two-lane asphalt road that curves through a dense, green forest. To the left of the road is a large, calm body of water, likely a lake, which reflects the sky and the surrounding trees. The water is a deep blue color. The road has a yellow double line in the center and white lines on the edges. Three cars are visible on the road: a dark car in the distance, an orange car in the middle ground, and a dark car in the foreground. The forest is composed of tall, thin trees with lush green foliage.

Aplicom A-Series

Professional Telematics Made Easy

Aplicom A-Series

Implementing demanding telematics and telemetry applications is easier than ever!

Easy and versatile configuration,
no programming needed

Quick integration to back-end systems
through REST API

Fast support from our team of experts



Overview



A9 IPEX

IP 67 protected unit for demanding environments like trailers and heavy machinery



A11

The most versatile high-end telematics unit with a wide set of interfaces



A9

Compact and powerful unit providing several inputs and an internal antenna option

Sensors and Interfaces

All Aplicom A-Series devices have an internal real-time clock and an accelerometer.

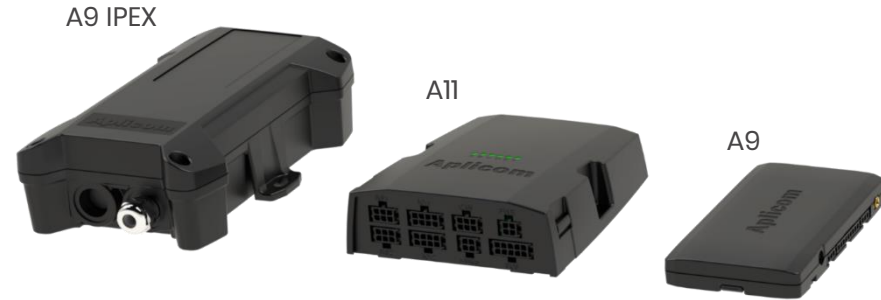
They contain enough memory to store a large number of data snapshots.

The 9-32 VDC power input has built-in voltage level measurement that can be used to detect if an engine is running and to monitor the condition of the vehicle's battery.

The units also have jamming detection for GNSS and communication.

Software interfaces on top of the CAN bus include: FMS, ISOBUS, trailer EBS interface, and Modbus.

K-line is used to access real-time tachograph data.



Interfaces	A9 IPEX	A11	A9TRIX	A9TRIXA
CAN	1	2	1	1
Serial	1	5	1	1
Digital/analogue/ pulse input	2	12	2	2
Open collector out /Digital output	1	2	1	1
1-wire	1	1	1	1
K-line	-	1		
Antenna	internal	external	Internal/ external	external

Configuration:
**Create applications without
programming**



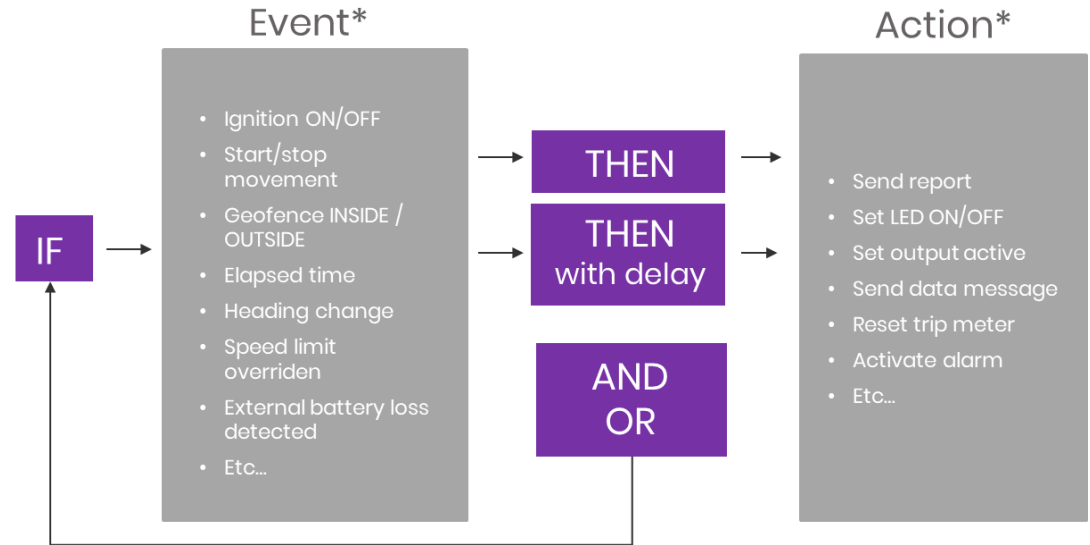
Create Applications without Programming

Configurations are an efficient way to create functionality without programming!

A configuration defines application logic for an A-Series unit, utilizing A-Series Telematics Software's in-built functions.

Each configuration is an XML file, that is generated by the **A-series SW Configurator Tool**.

Configurations are created on your computer and then uploaded to the devices locally, or with an over-the-air update facility provided by Aplicom.



* The events and actions shown here are examples only. For a full list, please refer to the [Aplicom A-Series SW Configurator User's Manual](#)

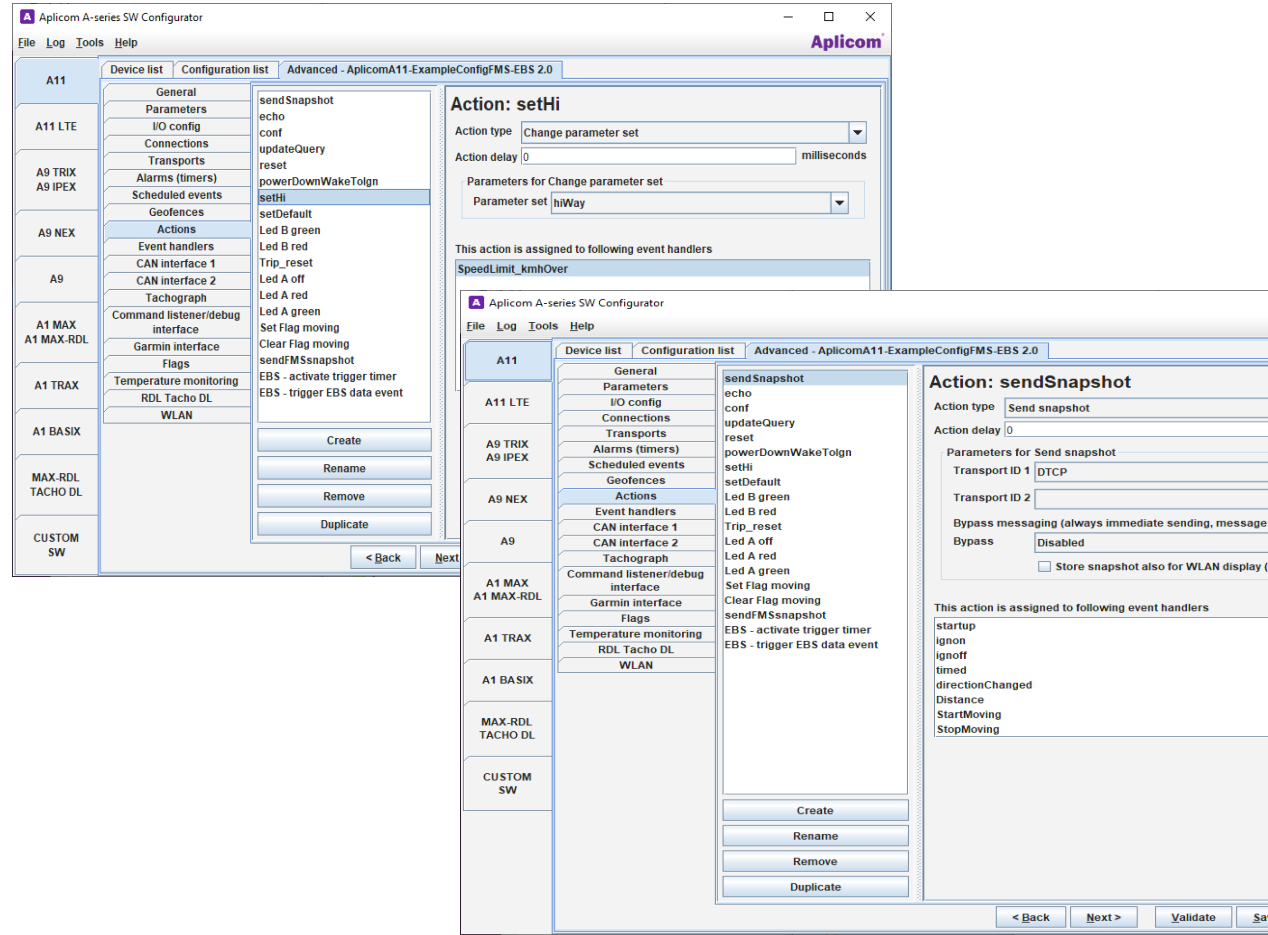
A-Series SW Configurator Tool

The A-Series SW Configurator Tool is a form-based user interface that allows applications to be quickly and efficiently created.

The system uses **events** that you define. **Event handlers** decide what **actions** are triggered by events.

This allows you to create complex application logic needed to power your own use-cases.

We can provide training and support on the usage of these tools. We can even create configurations for you, if needed.



Configuration Templates

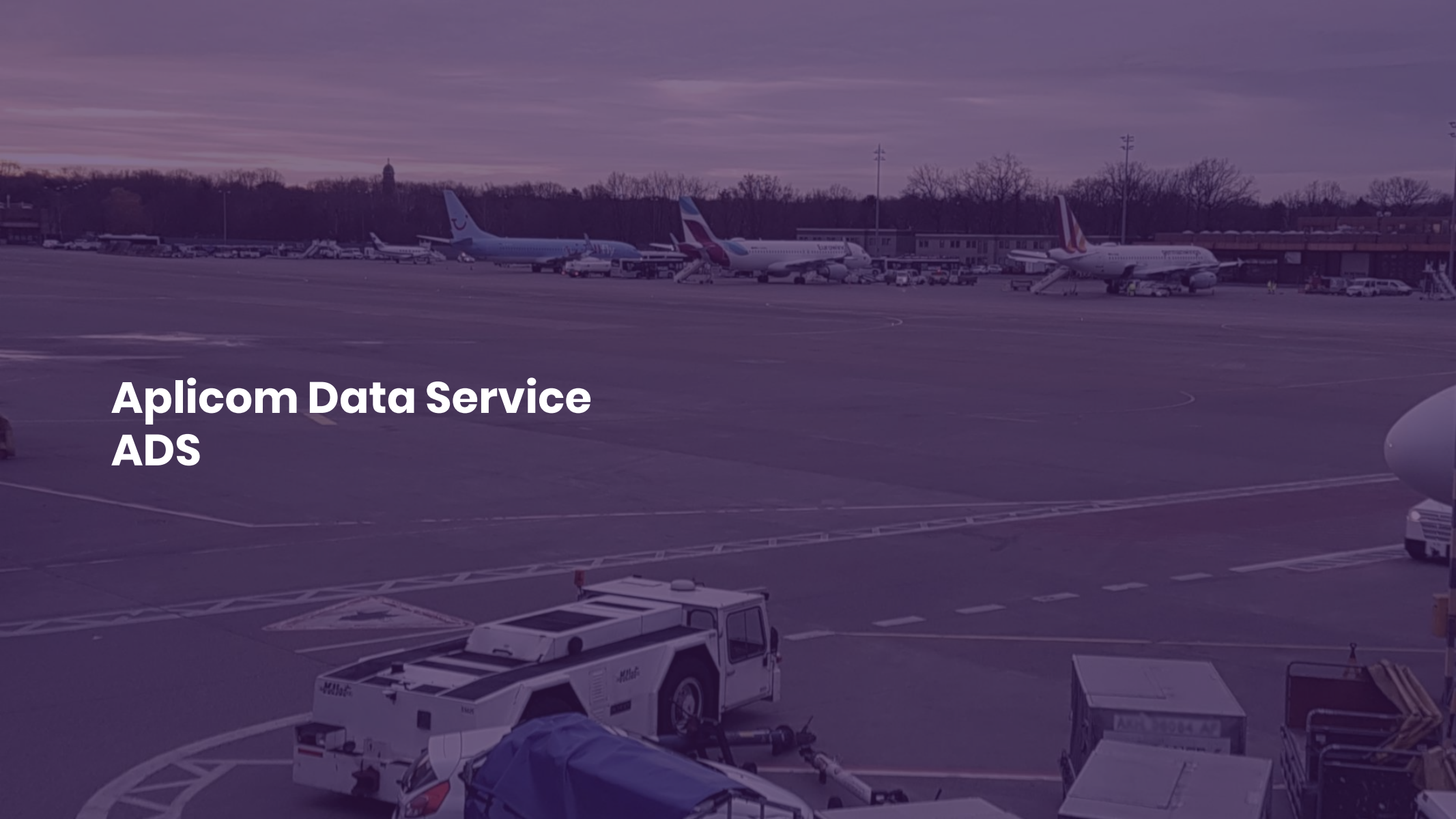
The A-Series SW configurator tool includes **configuration templates** that can assist you in creating your own applications.

Templates can be easily modified or extended with new functions.

A configuration template can be used without any changes for testing or demonstrating A-Series functionality.

You can also use templates as a learning tool, to understand what configurations look like in practice.



The background image is a wide-angle shot of an airport tarmac during the "blue hour" of twilight. In the mid-ground, several large commercial aircraft are parked at gates or on the apron. From left to right, the visible tails include a blue and white livery, a red and white livery, and a white livery with red and blue accents. Ground support equipment, including belt loaders and other service vehicles, are positioned around the aircraft. In the foreground, a large white tug vehicle is partially visible, along with some cargo containers and other ground equipment. The sky is a mix of soft purple and blue, and the overall scene is quiet and organized.

Aplicom Data Service ADS

Forwarding Data

Aplicom A-Series mobile devices log data and pre-process it intelligently.

Aplicom Data Service takes care of delivering data over a secured connection to a server, where it can be easily and reliably accessible using an API.



A-Series devices and software

- Configurable applications
- Logging and pre-processing of data

Data Service

- Data parsing and buffering
- Secure delivery of data

Telematics system

Your solution that uses the data



Connectivity

Support and services

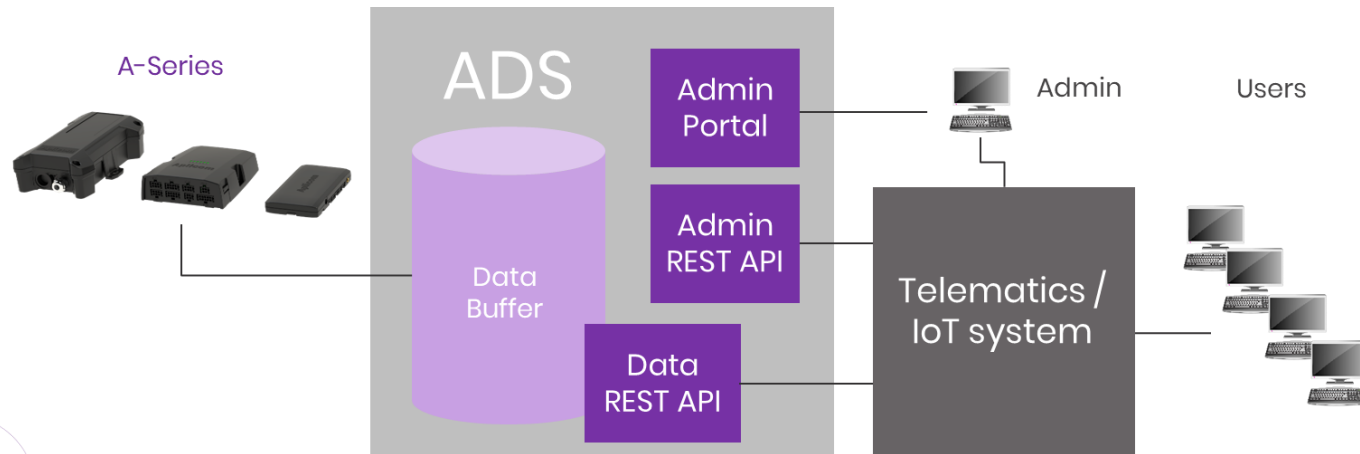
ADS Overview

Aplicom Data Service is a reliable store-and-forward service that delivers data from A-Series units, over a mobile network, for access via a simple API.

ADS offers simple application programming and control interfaces that follow common industry practices.

The data is transferred securely and reliably from A-Series mobile devices, and it is stored in an SQL database on the server for two weeks, so that you can be sure that no data gets lost.

Our services are reliable and easy to integrate.



Data through ADS: Standard Data Set

Aplicom D- and G-Protocol* data content:

- Location, altitude, speed, heading, and max speed since last event
- Trip counter distances
- Full set of GSM cell information, including location information
- Status of digital inputs and outputs
- Pulse counter rates
- Analog input voltage levels
- Free event information (within “event specific bytes”)
- WLAN status related information for AIIW use

*You will get the full protocol definitions from Aplicom Extranet, after registering as Aplicom partner.



Data through ADS: FMS Data

Aplicom F- Protocol data content

Availability depends on vehicle and its FMS interface version (1 to 4)

- Total fuel used
- Total distance driven
- Engine running hours, distance to next service
- Fuel level %, Ad blue level %
- PTO, clutch, brake pedal and cruise control status
- Gross vehicle combination weight
- Number and weight of axles
- Wheel-based speed (both min and max)
- Engine rpm, actual, max. and min between F-protocol snapshots
- Number of harsh braking events between F-protocol snapshots
- Ramp and door status
- Selected gear
- Tachograph information
- Engine coolant temp, actual, min, max



Data through ADS: Real-Time Tachograph Data

Aplicom E- Protocol data content, e.g:

- Driver ID's, driver 1 and 2
- Vehicle registration number
- Vehicle identification number (VIN)
- Driver status; driving, resting, working, etc.
- Driving time limit warnings
- Driver status change events
- Vehicle moving status
- Tachograph date and time
- Speed
- Engine momentary rpm
- Trip and vehicle total mileage



Data through ADS: Trailer EBS CAN Data

Aplicom EB- Protocol data content

Full data set from trailer Electronic Braking System (EBS) CAN, e.g:

- EBS data counters
- Brake data values, min and max
- Wheel based speed, min and max
- Towing detection
- Weight

Other Data

Other data is relayed in original raw format

- CAN ID forwarder data,
- Cold chain data, or
- 1-Wire sensor temperature data



Getting Familiar and Test

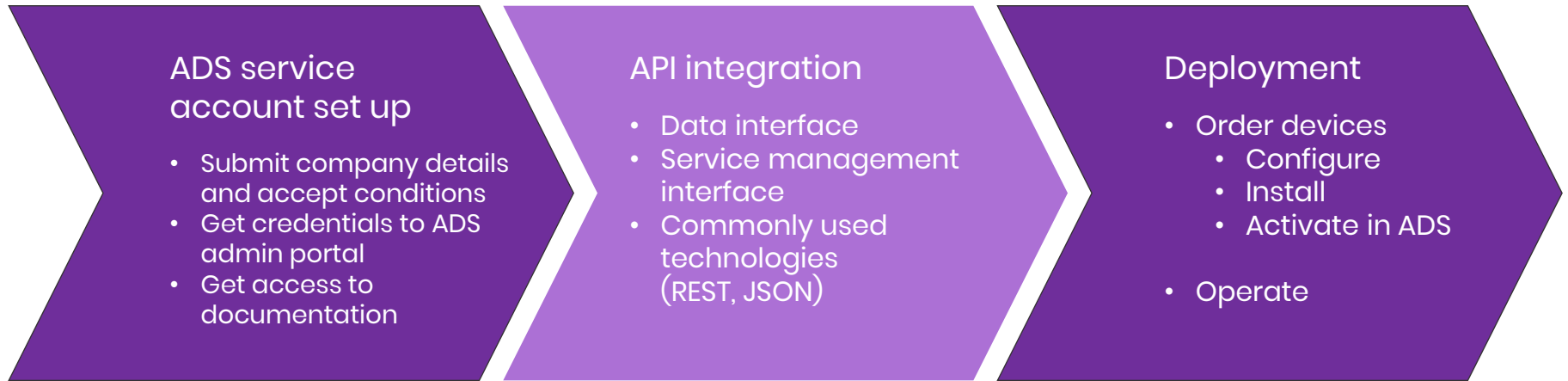
You need only create a regular ADS account that can also serve as testing account.

Operation for up to 9 units is free of charge.

You can test and prototype on a small scale, free of charge. Invoicing starts when the tenth device is activated. Until then, no fees are charged.



ADS Deployment in Practice



Simple Steps To Get Started

1

Contact Aplicom Sales and get familiar with the products.

We can assist you in finding the optimal way to implement your solution.

2

Select the A-Series devices that suit your application, and activate ADS service.

We will help you to select devices that fulfil your needs. We can customize them too, if needed!

3

Create device applications with our configurator tool.

We will teach you how to create amazing applications with the powerful and versatile Aplicom SW Configurator Tool.

4

Connect your system to Aplicom Data Service API.

We will support you in developing and testing the interfaces.

5

Order and set up devices and **you are live!**

We can install your configurations at our factory and take care of SIM management for you.



Aplicom[®]

YOUR SUSTAINABLE TELEMATICS PARTNER

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