



# **GVF-MRA**

## **Mutual Recognition Arrangement**

### **Working Group**

**- A Framework for SOMAP Implementation -**

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**[www.gvf.org](http://www.gvf.org)**

## GVF MRA Working Group & GVF 101; 103 ATEs

- **GVF Mutual Recognition Arrangement Working Group:** Once a type approval is provided to a manufacturer by any one of the participating satellite operators other operators may mutually recognise the results of the tests conducted during the first operator's type-approval process
- **To achieve this objective, the MRA WG created procedure GVF 101 (A "living" document):** defines a set of standard tests that an antenna or earth station manufacturer should perform in order to apply for type approval from any satellite operator – **improves the quality and completeness of test data; reduces the time and cost required to bring new ground-segment technology to market**
- **GVF 103** summarizes the duties of an ATE according to document GVF 101
- **ATE** - defined as "an organization or individual authorized by the GVF MRA WG to witness GVF MRA Testing and to certify the completeness and accuracy of the measurement results and of the Data Package"

# GVF 104 Auto-Deploy & VMES; GVF 105 COTM Mobile Satellite; GVF 107 Application for GVF Type Approval

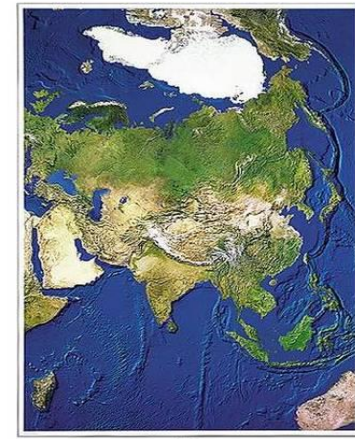
- **GVF 104** is intended to serve as a best-practices guide for interpreting international regulatory specifications for the purpose of GVF type approval of auto-deploy VSAT terminals
- **GVF 104** provides best-practices guidance to satellite operators who wish to offer a type approval for auto-deploy terminals, or for use in GVF-issued type approvals
- **GVF 105** adds guidance for testing parameters that are unique to COTM terminals
- These include the terminal tracking accuracy and the up-link inhibit functions should the tracking accuracy exceed published specifications
- **GVF 107** defines the applicable data to provide in order to apply for a type approval of an antenna system with a satellite operator



## Standards Preparation for SOTM Terminals

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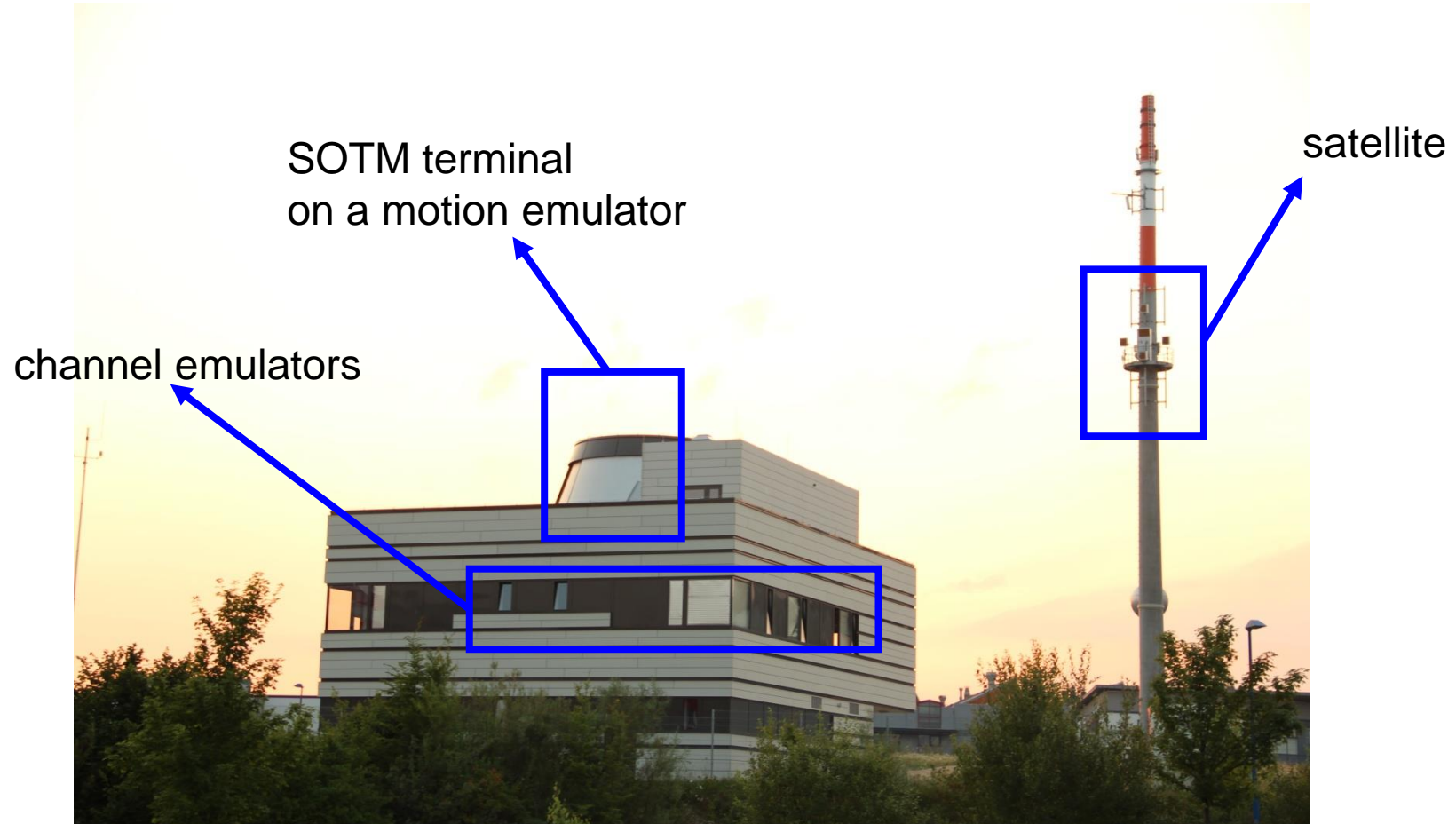
# Introduction

## Motivation

- A common scope of specification and verification of SOTM terminal is missing
  - No standard definition of performance parameters
    - e.g. definition of antenna gain (at antenna feed or at the BUC interface)
    - e.g. pointing performance is not stated in the majority of specs sheets
  - No standard recommendation or test conditions
    - Different standards which were mainly designed for fixed application
    - Do not specify how to test the system
    - Type approvals which are operator specific and redundant to a large extent
  
- This undefined framework hinders the growth of the SOTM market which is seen as one of the strongest sources of revenue
  
- This study is tailored to define common recommendations for future SOTM standards

# SOTM Standard Recommendation

## Fraunhofer Facility for Over-the-air Research and Testing FORTE



# SOTM Standard Recommendation

## Structure of FORTE



# Fraunhofer

## IIS



## **GVF MRA Working Group**

Chair: Colin Robinson

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# **Thank You**

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