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Presenter:

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Director – Maritime Safety

Inmarsat

EGC API

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Agenda

- *Brief Explanation of API System*
- *Why Use an API*
- *Update on Testing*
- *Demonstration of API*
- *Q&A*

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What is an API?

API Definition:

A set of functions and procedures allowing the creation of applications that access the features or data of an operating system, application, or other service.

API In Practical Terms:

A Set of pre-agreed coding, allowing MSIPs to send information over the Inmarsat Network and other Satellite Networks, for broadcast to Mariners.

For This API we will use JSON RESTFUL format & C- Codes.


```
{
    "msiType": "met",
    "serviceCode": 61,
    "priority": "safety",
    "areaType": "NAVMET",
    "repetitionCode": "01",
    "address": "02",
    "startDate": "",
    "payload": "test"
}
```


- Example of the API
- All Composed in JSON RESTFUL

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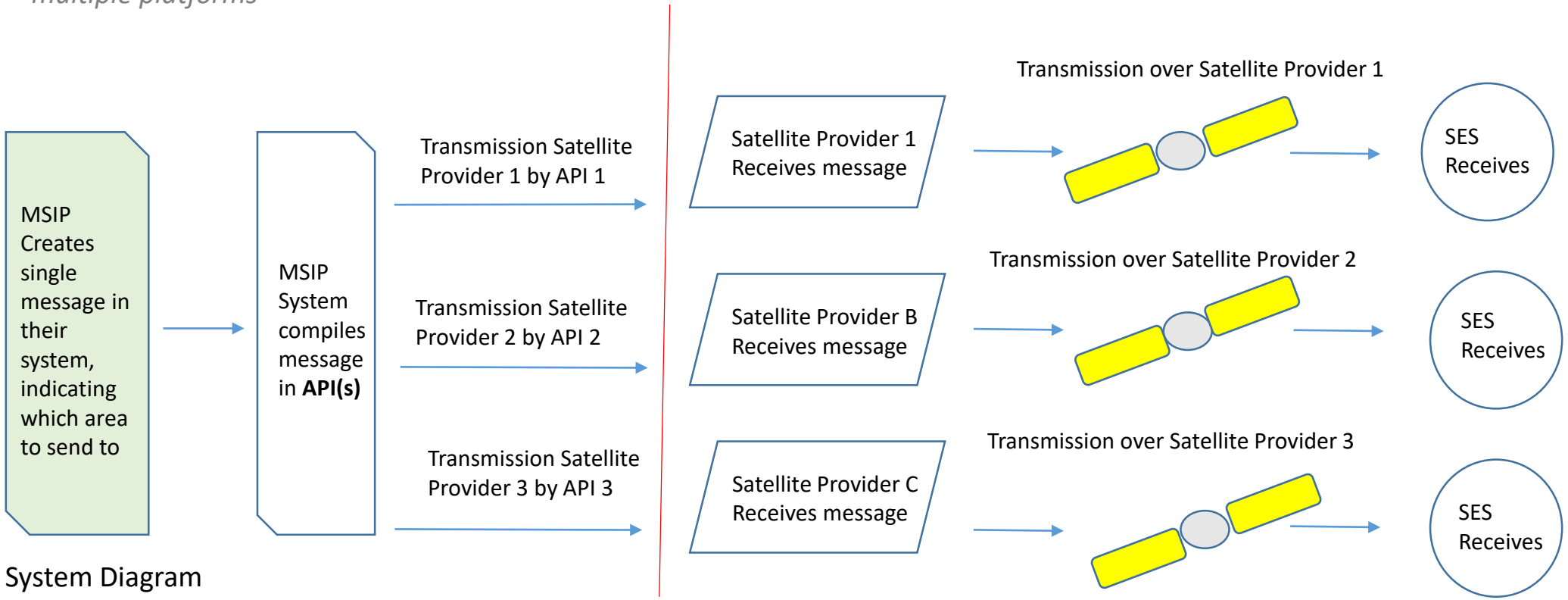
API System

- *The Below Diagram displays the basic path of a message created by an MSIP operator. (Green Box)*
- *The MSIP operator Watch Keeper only needs to create one message for all operators*
- *Reduction in errors caused by sending through multiple platforms*

Key

- Green Box – User Input
- Blue Arrows – System & Network Handling



- System Diagram

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Why Use an API?

While possible to use manually with certain applications, the idea is to build the API(s) into an application / interface used by your Watch Keepers

- The API can be built into presently used Application / Interfaces in most cases
- Increases efficiency of Manpower and related costs
- Additional providers in the future are more manageable

Source: Futurenautics Whitepaper, March 2016
Picture courtesy of Rolls-Royce

Testing Update

Live on Cloud Testing:

Canada

Navigational Authority - Test logins provided along with Pre- created command files for testing, Testing on cloud environment

USA

Navigational Authority - Test logins provided along with Pre- created command files, Testing on Cloud Environment

New Zealand

Navigational Authority- Test logins provided along with Pre- created command files for testing, Testing on Cloud Environment

Meteorological Authority– Have engaged Inmarsat completing relevant documentation and expressed interest to test alongside Navigational colleagues

Pending Cloud Testing:

United Kingdom

Navigational Authority – Building API in the background with their IT Department, will engage in testing once this is complete

Australia

Navigational Authority - Access has been provided to Australia who are reviewing other internal requirements

France

Navigational Authority - Has advised testing to begin before end of 2021

Argentina

Discussing with Inmarsat

Chile

Discussing with Inmarsat

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Would you like to give it a try?

How to Participate

- Register Interest with Inmarsat by emailing: Roger.Barry@Inmarsat.com
- Obtain the 'Postman' Application or an equivalent to compile API
- Complete Relevant API Sign Up form and NDA
- (not essential) Build API into your MSI creation interface
- Book Testing Slots with Inmarsat for testing on closed cloud Infrastructure
- Complete live tests on Live network

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Demonstration & Questions?

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THANK YOU