



Technical Circular

No.: 028/2018

Date: 18th April 2018

To whomsoever it may concern

Subject: Migration of INMARSAT I-3 to I-4 Services.

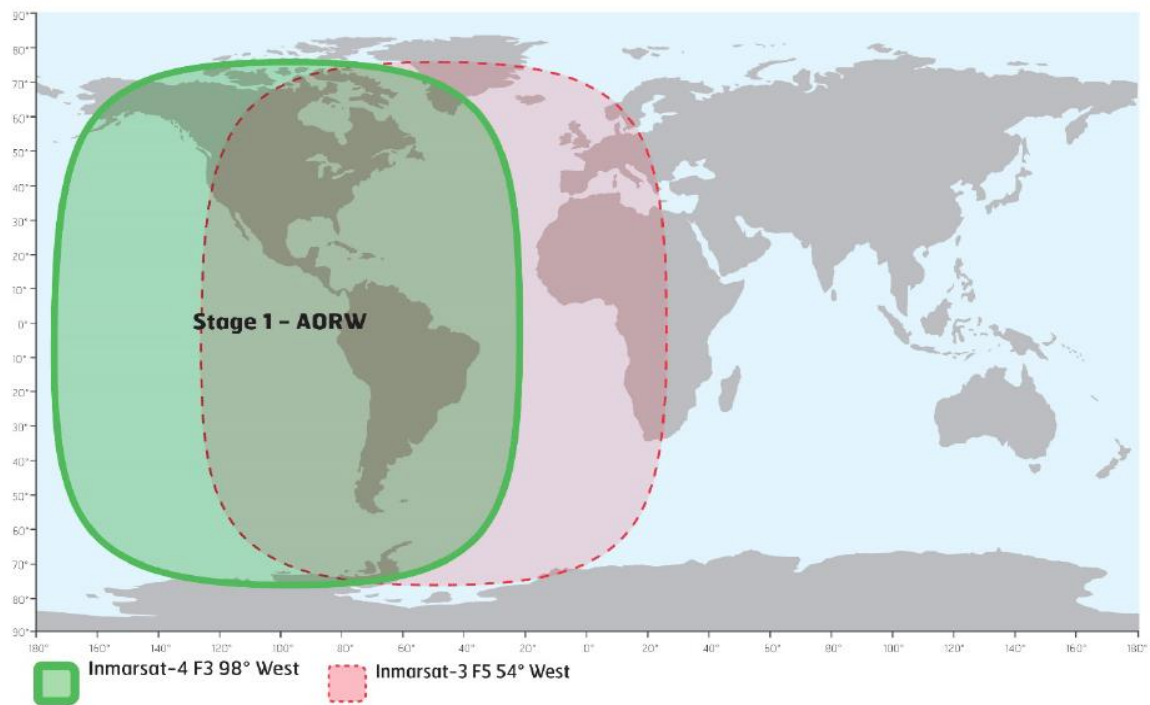
- The Inmarsat-3 (I-3) constellation of satellites are reaching the end of its lifespan, which has made it necessary for Inmarsat to roll out the end of life process for several of their legacy services and to migrate those services that will continue (including Inmarsat- C) on to the Inmarsat-4 (I-4) constellation of satellites.
- The transition of services from the I-3 to I-4 constellation will be implemented in four phases and will take approximately nine months to complete as per the below schedule.

I-3 to I-4 migration	Timing
	Fleet 77, Swift 64 and Classic Aero services - 30 April 2018 at 17:30 UTC
	Inmarsat C (to include Aero C and Mini C) services – 09 May 2018 at 14:00 UTC
Pacific Ocean Region (POR) I-3 to Asia/Pacific (APAC) I-4	End Q2 2018
Atlantic Ocean Region East (AORE) I-3 F2 moved to I-3 F5	End Q3 2018
Indian Ocean Region (IOR) I-3 to Alphasat EMEA I-4	End Q4 2018

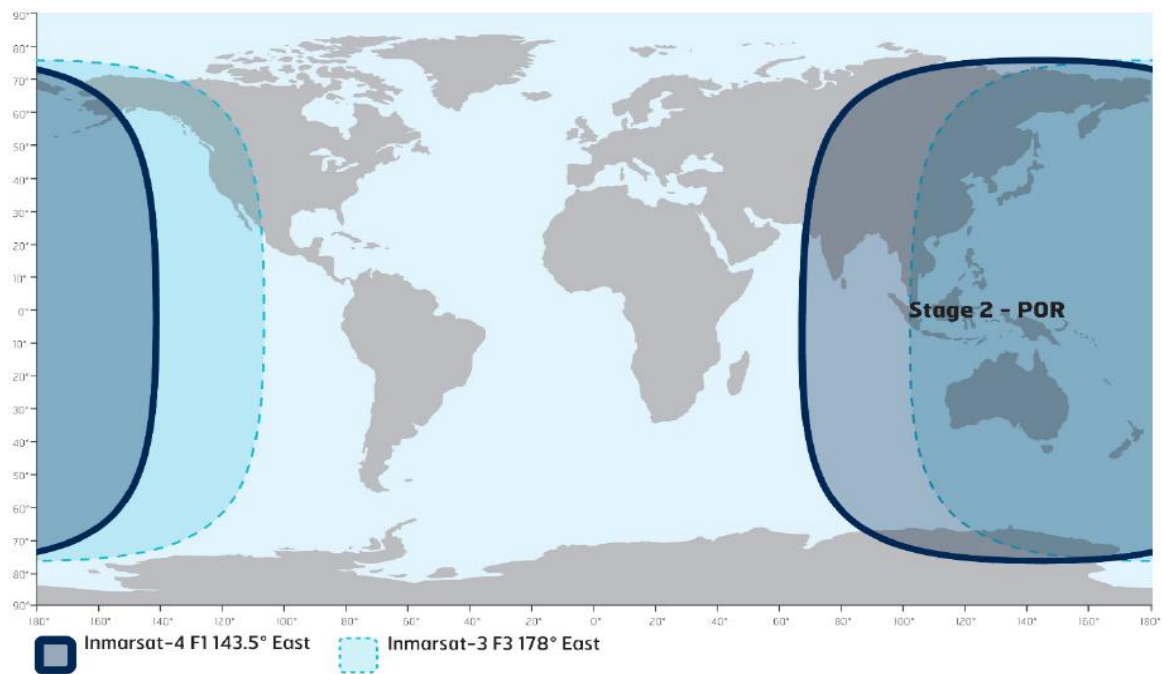
- Due to the migration from I-3 to I-4 satellites, the coverage areas will change and users will need to ensure that their devices are pointed to the relevant satellite. This process will generally be managed automatically by the terminal without the need for user intervention. However, in some instances, users will need to manually re-point their devices to the appropriate satellite.

- The existing and new satellite coverage maps are shown in the below figure.

Stage 1: AORW to AMER, April 2018

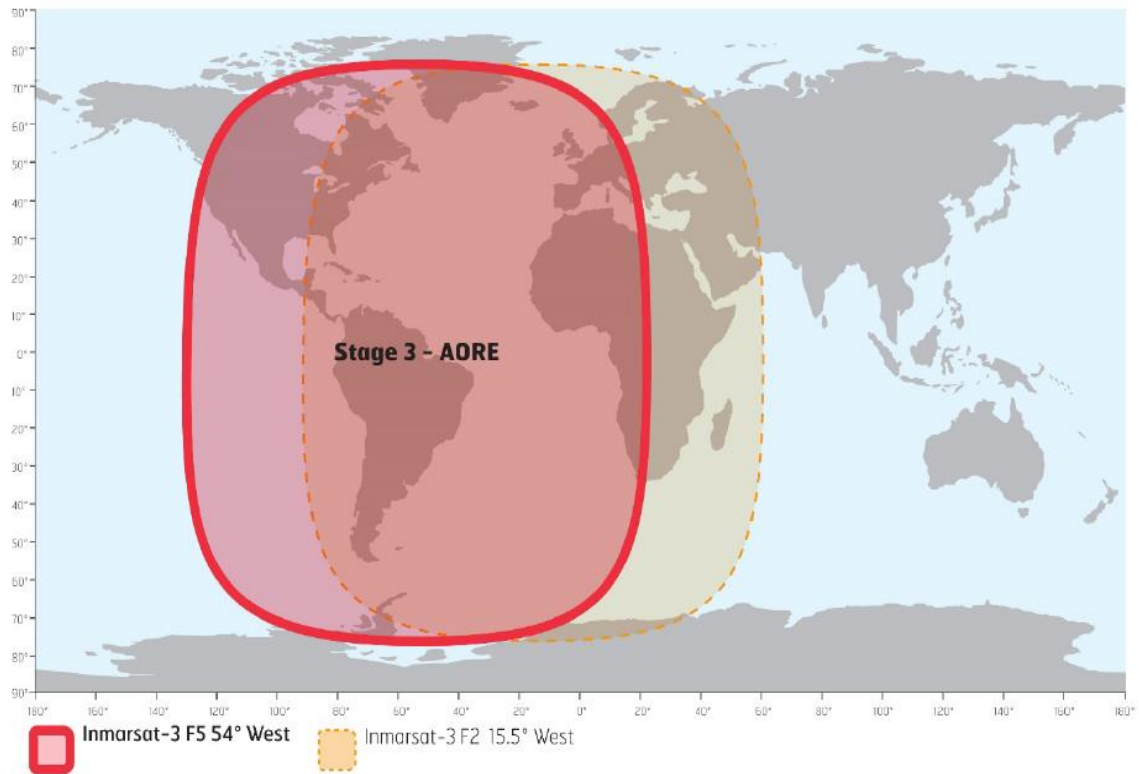


Stage 2: POR to APAC, July 2018

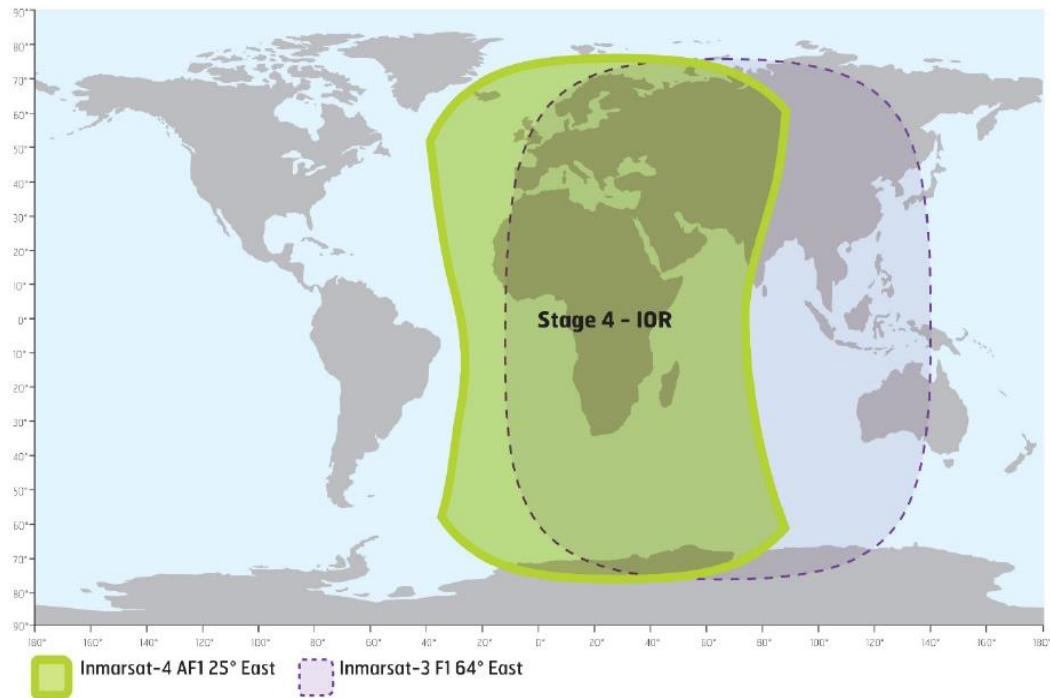


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Stage 3: AORE to I-3 F5, September 2018



Stage 4: IOR to Alphasat EMEA, October 2018



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- The migration applies to all users of Inmarsat C (Standard C and Mini C), and will affect the polling and data reporting services.
- During the migration process, it is likely that many poll commands will be sent, thus flooding the system with messages which will be put in a queue. As a result, Providers expect delays during this period.
- Also a short interruption of service may be experienced. All messages 'To-mobile station' will continue to be accepted by the Land Earth Station (LES) and will be queued for delivery after the migration. 'From-mobile station' messages will be queued on the terminal and will be delivered once the terminal re-establishes communications with the satellite.
- For smooth transition, ship owners and Masters are advised to be guided by below recommendations:
 - Inmarsat C devices to be switched to an adjacent Ocean Region before each migration. Switching devices in advance will make the migration smoother and will avoid possible outage in tracking operations. Before Phase #1, switch devices located between 24⁰ E and 20⁰ W to AORE.
 - Control the Ocean Regions where their LRIT DNID(s) has been downloaded in the past. If a DNID is available in the 4 Ocean Regions, the migration has no effect on position/data reporting.

Enclosure:

- Nil

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