## Air Route Surveillance Radar (ARSR)

Interrogation signal Reply signal

Microwave Relay Station

(Self-employed)

Blue line

Air Route Surveillance Rada

Facility (Base station)

Exclusive line

Flight altitude is 30,000 feet

## **ARSR(Air Route Surveillance Radar)**

Confirmation of the

identification number

## ORSR (Oceanic Route Surveillance Radar )

ARSR or ORSR collects not only the aircraft position detected by the radio wave, but also the altitude or beacon code by sending and receiving signals.

> Identificatio n number is 1234

This acquired information is relayed from radar facility to Air traffic Control Center (ACC) by dedicated communication network. By using this information air traffic controllers operate air traffic control service operation such as guiding aircraft and setting separations between aircraft. Both ARSR and ORSR cover the airspace within the radius of 250NM, namely about 460km.

Confirmation of

the flight altitude

