ICAO/RTCA/EURCAE/AEEC Terminology
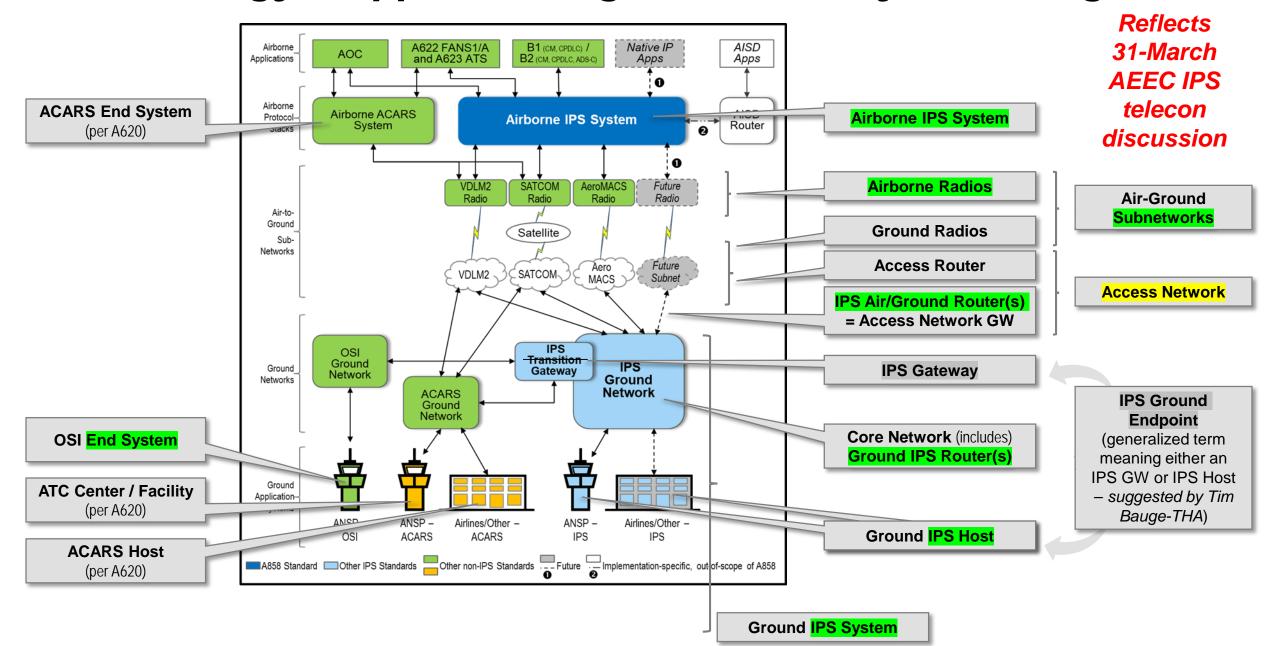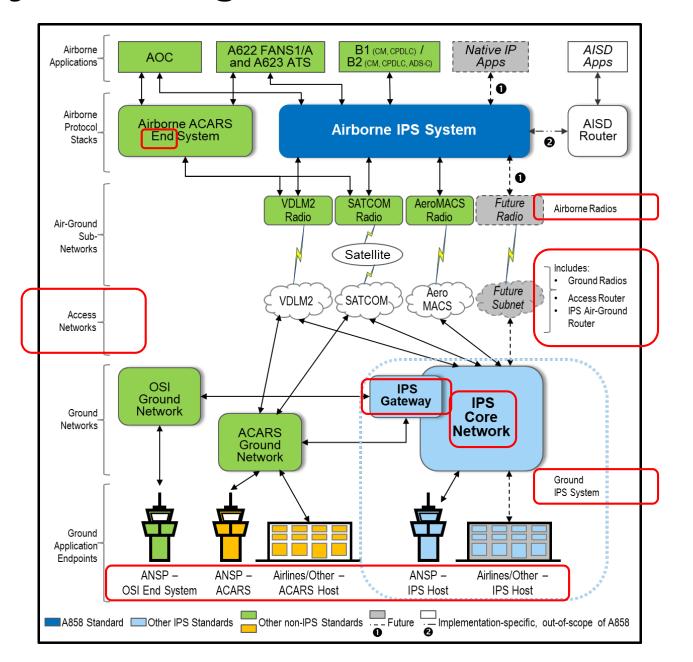
Term	Definition
Access Network	A network that is characterized by a specific access technology. [ICAO 9896]
Airborne IPS System	The collection of airborne components and functions that provide ATN/IPS services [A658]
Airborne Radio	Physical airborne radio that provides the communication over the air using the specific A/G subsystem specification and the layer 2 interface to the Airborne Router. [SESAR]
End System	A system that contains the OSI seven layers and contains one or more end-user application processes. [ICAO]
Ground ATN/IPS Router	A ground device that is used to support ATN/IPS packet forwarding in both air/ground and ground/ground environments. [IPS Profiles, A658]
IPS Air/Ground Router	The IPS Air/Ground Router is a ground IPS router that interfaces directly with an adjacent airborne host/router over RF media. In other words, the air/ground router is the first-hop ground router for the airborne host/router. [IPS Profiles]
IPS Host	The IPS Host is the originator or terminator of IP packets in the IPS System. The IPS Hosts do not route IP packets that are not addressed to it. [IPS Profiles]
(IPS) Node	A device that impalements IPv6. [ICAO]
(IPS) Router	A router is a node that forwards Internet protocol (IP) packets not explicitly addressed to itself. A router manages the relaying and routing of data while in transit from an originating end system to a destination end system. [ICAO 9896]
IPS System	The IPS System is the all-encompassing Aviation Internet that provides data transport, networking, routing, addressing, naming, mobility, multilink and information security functions to the aviation services. The IPS System includes the Layer 3 and Layer 4 functions of the ISO/IEC 7498-1OSI 7-layer Reference Model. The IPS System does not include the underlying subnetwork functions that provide connectivity or the Applications. [IPS Profiles]
Subnetwork	An actual implementation of a data network that employs a homogeneous protocol and addressing plan and is under control of a single authority. [ICAO]

Terminology mapped to Original PP858 System Diagram

Reflects 31-March AEEC IPS telecon discussion

PP858 System Diagram – UPDATED

Red boxes highlight additions and changes IAW previous slide

PP858 – Terminology (proposals for to-be-defined terms)

Term	Definition
IPS Gateway	An IPS Gateway exchanges IPv6 packets with an Airborne IPS System or a Ground IPS Host. It establishes and maintains an operational correlation between two heterogeneous systems, where one system is an IPS Node and the other is an ATN End System or an ACARS Host.
IPS Ground Endpoint	A generalized term referring to a ground system, which may be either a Ground IPS Host or an IPS Gateway, that serves as the termination point for the IPS transport and IPS end-to-end security.