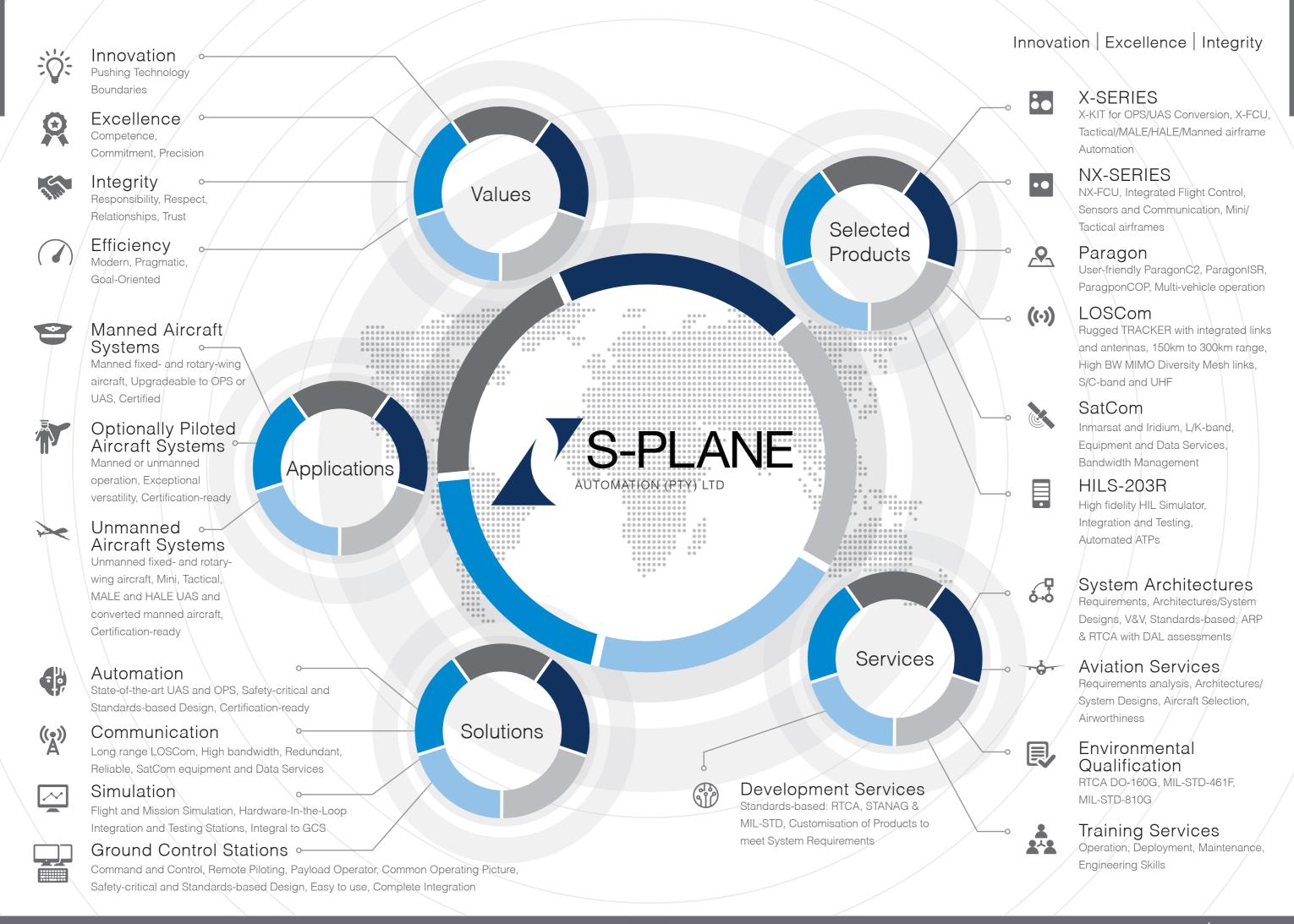


Company Profile Automation Innovation

S-PLANE is an internationally recognised aerospace company delivering proven certification-ready Automation, Simulation, Communication and Ground Control Solutions for civilian and military fixed- and rotary-wing aircraft. S-PLANE combines its own and other market-leading products with system engineering, integration and testing support services to customise and deliver these Solutions. Most notably, S-PLANE Solutions are used to create Unmanned Aerial Systems (UAS) and Optionally Piloted Systems (OPS), as well as Manned ISR Aircraft that are easily upgraded to become UAS or OPS.



Applications

S-PLANE's Aircraft Automation, Communication and Ground Control Solutions, combined with suitable sensor payloads, are integrated onto rotary-wing and fixed-wing manned aircraft in order to create powerful Manned, Optionally Piloted and Unmanned airborne Systems. Integration can be performed for new aircraft or as modernisation and upgrade projects for existing fleets. Manned airborne Systems created with S-PLANE technology are seamlessly upgraded to state of the art certification-ready Optionally Piloted or Unmanned Systems. These Solutions also apply to dedicated Unmanned platform designs.



Solutions



AIRCRAFT AUTOMATION SOLUTIONS

Airframes designed for manned or for unmanned operation are fully automated to become Unmanned or Optionally Piloted Vehicles (UAS and OPS). The typical MTOWs of these aircraft range between 100 kg and more than 50 000 kg. The primary building blocks are S-PLANE's state of the art, reliable and redundant NX-FCU and X-KIT certification-ready products, combined with system engineering, integration, flight testing and certification support.



GROUND CONTROL SOLUTIONS

Multi-vehicle Ground Control is provided via a rugged and transportable Tactical Deployment Unit (TDU) serving as the heart of any ISR Ground Control Station (GCS). S-PLANE's TDU, combined with our Operator Stations, provides complete Command and Control (C2) functionality, connectivity between the payload operator in the GCS and the on-board pilot (if the aircraft is manned), and mission and payload situational awareness to the aircraft and payload operators via S-PLANE's ParagonC2 and ParagonISR appliances.



COMMUNICATION SOLUTIONS

Manned and unmanned aircraft enjoy exceptional RF link connectivity in both Line of Sight (LOS) and non-LOS environments. Building blocks include S-PLANE's TRACKER 100+ integrated antenna tracker and industry-leading Satellite and Line-of-Sight communication links. S-PLANE provides system engineering, integration, flight testing and certification support in order to realise complete Solutions.



SIMULATION SOLUTIONS

Simulation Solutions include Flight and Mission Simulation and Hardware-In-the-Loop Simulation (HILS). Flight and Mission Simulation is integral to S-PLANE's Tactical Deployment Unit (TDU), normally installed within a GCS. Simulation is used for training and to allow operators to optimise and practice real missions before they are flown. At S-PLANE, HILS supports automated execution of acceptance tests as part of an efficient system engineering tool chain for customer integration, testing and maintenance.



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