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Press release

ArianeGroup Presents Latest Launch Products and Services at Satellite 2019

- **Presenting a portfolio covering complete launch services and a range of innovative satellite products and equipment, ArianeGroup will be at booth 401, Hall B&C at the Washington Conference Center with its subsidiaries Arianespace, Pyroalliance, and Sodern.**
- **ArianeGroup, the lead contractor for Ariane 5 and the future Ariane 6, is also a major global player in satellite equipment, bringing the latest technologies to support new developments in the satellite market,**
- **Satellite 2019 will be the opportunity to see a scale 1 mock-up of ArianeGroup's new ultra-light antenna reflector, as well as Sodern's highly competitive subsets for inter-satellite laser links terminals.**

Washington, April 25, 2019

ArianeGroup and its subsidiaries Arianespace, Pyroalliance, and Sodern will share booth 401 in Hall B&C at the Satellite 2019 conference in Washington, D.C. (6-10 May) showcasing products and services ranging from the latest satellite equipment to complete, highly versatile launch services.

For the Satellite 2019 Edition, ArianeGroup's Product, Equipment and Services division will present its new ultra-light antenna reflector which enables short and competitive development to support customer requirements. This new product introduces low cost materials derived from the aeronautical industry as well as a new "plug & fit" which allows final assembly in a matter of days. The first prototype was engineered, manufactured, and tested in only 9 months; the product will be available for flight beginning in 2020. With more than 140 active antennae reflectors in space, ArianeGroup is recognized by its customers for the outstanding "in orbit" performance of its solutions.

Also offering space propulsion chemical, electrical, and hybrid solutions, ArianeGroup covers the full spectrum from components, modules, and thrusters to complete propulsion subsystems that respond to the evolving requirements of challenging new space missions. Featured products on display at Satellite 2019 include the latest developments in satellite propulsion with special focus on electric propulsion solutions for the geostationary and navigation sectors, in-orbit servicing (RIT 2X subsystem), and the small satellite market, including constellations (Integrated Electric Propulsion plug-in module).

Arianespace provides launch services for all types of satellites into all orbits, it has launched more than 600 satellites since 1980, using its family of three launchers -- Ariane, Soyuz and Vega -- from launch sites in French Guiana (South America) and Baikonur, Kazakhstan. Arianespace is a subsidiary of ArianeGroup, which holds 74% of



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its shares; the balance is held by 15 other shareholders from the European launcher industry.

Pyroalliance is a 90% subsidiary of ArianeGroup with extensive experience and expertise in pyrotechnic and mechanical products for the satellite, launcher, and defense markets, where the highest levels of safety, performance, and reliability are critical. At Satellite 2019, the company will be exhibiting ultra-low-shock pyrotechnic equipment with hold-and-release mechanisms designed to eject satellites into low Earth orbit – a particularly efficient solution for constellations.

Sodern is a long-standing provider of star trackers and optronic equipment for the space and defense markets, and is also a recognized trail-blazer for highly innovative, competitive equipment for small satellites and constellations. At Satellite 2019, Sodern will exhibit for the first time its highly competitive subsets for inter-satellite laser link terminals as well as its full range of attitude sensors - from the high-performing modular Hydra to the latest-generation star tracker Auriga, specifically designed for small satellites and already setting records for lightness, volume reduction, and competitiveness.

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About ArianeGroup

ArianeGroup develops and supplies innovative and competitive solutions for civil and military space launchers, with expertise in all aspects of state-of-the-art propulsion technologies. ArianeGroup is lead contractor for Europe's Ariane 5 and Ariane 6 launcher families, responsible for both design and the entire production chain, up to and including marketing by its Arianespace subsidiary, as well as for the missiles of the French oceanic deterrent force. ArianeGroup and its subsidiaries enjoy a global reputation as specialists in the field of equipment and propulsion for space applications, while their expertise also benefits other industrial sectors. The group is a joint venture equally owned by Airbus and Safran, and employs approximately 9,000 highly qualified staff in France and Germany. Its 2018 revenues amounted to 3.6 billion euros.

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About Arianespace

Arianespace uses space to make life better on Earth by providing launch services for all types of satellites into all orbits. It has orbited more than 600 satellites since 1980, using its family of three launchers, Ariane, Soyuz and Vega, from launch sites in French Guiana (South America) and Baikonur, Kazakhstan. Arianespace is headquartered in Evry, near Paris, and has a technical facility at the Guiana Space Center, Europe's Spaceport in French Guiana, plus local offices in Washington, D.C., Tokyo and Singapore.

Arianespace is a subsidiary of ArianeGroup, which holds 74% of its share capital, with the balance held by 15 other shareholders from the European launcher industry.

About Pyroalliance

Pyroalliance is the European leader and a world-class player in pyrotechnics and mechanics, delivering innovative and cost-effective solutions tailored to our customers' critical requirements. With more than a half-century of experience as a manufacturer of state-of-the-art pyrotechnic and mechanical equipment, Pyroalliance addresses the requirements of cutting-edge industries, including Aerospace, Defense and Energy. We leverage our proven expertise and innovative mindset to develop products that combine the performance and reliability needed to perform critical functions for our customers' systems.

About Sodern

Sodern draws on more than fifty years of experience in optronics and neutronics to design innovative and competitive solutions for cutting-edge industries, including space, defence, mining, and research. A world leader in the markets for star trackers and neutron interrogation analysis systems, Sodern is internationally recognised for its expertise in advanced space equipment. Sodern, which is a subsidiary of ArianeGroup, the European leader in access to space, employs more than 450 highly qualified people. Its average turnover is over 75 million euros.