

INTERNATIONAL LAUNCH SERVICES FACT SHEET



COMPANY

International Launch Services, Inc. (ILS) holds the exclusive rights for worldwide commercial sales and mission management of satellite launches using the Proton Breeze M and Angara 1.2 launch vehicles. ILS provides a complete array of professional launch services and support. With decades of combined expertise, ILS has launched the entire range of commercial satellite platforms and has worked with all major satellite operators.

Khrunichev Space Center (KhSC), of Moscow, manufactures the Proton and Angara launch vehicles.

ILS is headquartered in Reston, Virginia, U.S.A.

OUR MISSION STATEMENT

ILS creates value for our customers by providing dependable access to space through proven and innovative launch solutions.

SERVICES

ILS staff has decades of combined expertise in the international launch and satellite business. ILS provides a single source of comprehensive knowledge and support.

- Marketing & Sales (ILS)
- Licensing Support (ILS)
- Mission Management (ILS/KhSC)
- Quality Management (ILS/KhSC)
- Integration (ILS/KhSC)
- Mission Design (KhSC)
- Proton Manufacturing (KhSC)
- Launch Operations (ILS/KhSC)

LAUNCH FACILITIES

The Proton Breeze M vehicle launches from the Baikonur Cosmodrome, operated by the Russian Space Agency (Roscosmos) under long-term lease from the Republic of Kazakhstan.

The Angara 1.2 vehicle launches from the Plesetsk Cosmodrome in Northern Russia.

KEY EXECUTIVES

ACTING PRESIDENT/COO & VICE PRESIDENT: John Palmé

VICE PRESIDENT & CFO: Joe Acheson

CTO & VICE PRESIDENT OF SALES: Jim Kramer



International Launch Services

FLEXIBILITY | PERFORMANCE | EXPERIENCE | DEDICATION

W2A
3 APRIL 2009



50th ILS Proton Launch

INTELSAT 23
14 OCTOBER 2012



75th ILS Proton Launch

YAMAL-401
15 DECEMBER 2014



400th Proton Launch

9 JULY 2014



1st Angara 1.2 Launch

23 DECEMBER 2014



1st Angara 5 Launch

PROTON HIGHLIGHTS

- Proton Breeze M: 6.27 metric tons of lift capability to reference Geostationary Transfer Orbit (GTO)
- Proton Breeze M: 6.47 metric tons of lift capability to reference Supersynchronous Transfer Orbit (SSTO)
- Compatible with all major spacecraft platforms
- Optimized mission design/orbit insertion
- Orbit insertion flexibility
- Schedule assurance with minimal weather constraints
- Capability of launching dedicated single or multiple satellites

PERFORMANCE HIGHLIGHTS

- Heritage vehicle to serve the broader GEO and NGSO market
- Highest launch tempo for heavy-lift vehicle
 - > 3 Proton missions in 6 weeks in 2017
 - > 5 launches in less than 3 months in 2013
 - > 8 ILS Proton launches in 2010 and 2012
- 6 commercial SSTO Missions: Intelsat 22, SES 6, Inmarsat-5 F1, F2, F3 and Intelsat 31
 - > SSTO missions provide increased heavy-lift performance, maximizing the operational lifetime of spacecraft
- 1st shared launch on ILS Proton with the SES-3 and Kazsat-2 satellite in 2011
- 418 Proton launches since 1965
- 96 ILS Proton commercial launches

ANGARA HIGHLIGHTS

- Angara 1.2: serving the SmallSat LEO market
- Successful flight of Angara 1.2 and Angara 5 in 2014
- 2nd Angara 5 mission scheduled in 2019
- Angara 5 pad construction at Vostochny Cosmodrome

PRODUCTION HIGHLIGHTS

- Consolidated supply base
- ISO Class 8 (100,000) cleanroom facilities
- Ability to overlap commercial launch campaigns
- 2 launch pads available for commercial missions
- Sustainable production of up to 12 Proton vehicles per year

MISSION ASSURANCE HIGHLIGHTS

- Dedicated ILS Mission Assurance focus
- Phase I, II, III and IV upgrades implemented with 100% flight success
- KhSC ISO 9001 Certified Quality Management System
- Quality management and oversight by KhSC and ILS
- Regular reporting of quality metrics to customers and insurance community



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