



Israel's Ilan Ramon Conference – Participating Israeli Companies

January 2022



Inspired by Innovation, Connected and Coordinated...

[The Foreign Trade Administration](#) (FTA) at the Israeli Ministry of Economy and Industry manages and supports Israel's international trade and trade policy. From our headquarters in Jerusalem together with over 50 economic and trade missions in key financial centers throughout the world, the FTA promotes Israel's economy worldwide.

Israel's economic and trade missions are at the forefront of the Israeli government's efforts to advance our industries in foreign markets. Our team of highly experienced economic representatives provide a wide range of services to Israeli companies and to the international business community.

The Israel Export and International Cooperation Institute, supported by member firms, private sector bodies and the government of Israel, advances business relationships between Israeli exporters and overseas businesses and organizations. By providing a wide range of export-oriented services to Israeli companies and complementary services to the international business community, the Institute helps build successful joint ventures, strategic alliances and trade partnerships.

The Israel Export Institute (IEI), represents **over 500 exporting companies** in the **Homeland Security** arena. Israeli HLS companies offer technologically advanced, field proven products and solutions that are among the most innovative anywhere. They are successfully partnering with key world players to ensure public safety, protecting air and sea ports, borders, government installations, financial institutions, recreation centers, public venues and more. The sector works with foreign government ministries and their agencies, as well as with industry bodies, to promote private industry joint ventures and international partnership.

[Discover Israel's Homeland Security & Aerospace Industry with IEICI.](#)

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<http://www.accubeat.com/>

AccuBeat

Categories

- Quantum Computing
- Astronautics
- Optronics
- Astrospace

Company Profile

AccuBeat Ltd is a leading manufacturer of frequency and timing solutions for aerospace, defense, telecommunications, and research applications.

The company's patented rubidium atomic clock and its OCXO technology with optional GPS disciplining provide frequency accuracy in the range of 10 to the -12th power, frequency stability in the range of 10 to the -13th power, and time accuracy in the range of nanoseconds.

AccuBeat's products are designed for commercial applications as well as for military use, including communication networks, cellular base stations, computer networks, calibration laboratories, test equipment, military communication systems, command and control systems, telemetry appliances, mobile radios, and more.

Accubeat is a subsidiary of Rafael Advanced Defense Systems.



Aleph Farms

<https://www.aleph-farms.com>

Categories

- Food Tech
- Climate Tech
- 3D Technology

Company Profile

Aleph Farms grows real steaks from isolated cow cells. The company's proprietary 3D platform uses various types of cells to form complex tissue, ensuring an end product that resembles the taste, texture, and structure of conventional farmed meat.

Aleph Farms' technology was developed with Professor Shulamit Levenberg at the Technion Israel Institute of Technology.

In October 2020, Aleph Farms announced the launch of Aleph Zero, a program designed to forward the company's vision for advancing food security by producing fresh quality meat anywhere, independent of the effects of climate change and the availability of local natural resources. The core mission of the new initiative is centered on introducing new capabilities for the local production of fresh, quality meat even in the most harsh and remote environments, including in space.



<https://aitechsystems.com/>

Aitech Systems

Categories

- Manufacturing
- Aerospace

Company Profile

With 40 years of experience, Aitech is the oldest and largest independent global high-tech manufacturer providing reliable, rugged embedded systems for the harshest, most unforgiving environments in military, defense, aerospace and space applications. Our state-of-the-art products in AI autonomous, cybersecurity and the digital backbone etc. enable more than 60 top-tier industry clients like NASA, Boeing, Lockheed Martin to expand their most revolutionary explorations based on multiple open standard architectures in which Aitech participates, like SOSA, FACE, VPX, CompactPCI etc.

We provide standard COTS products like single board computers, I/O, memory, and graphics boards, PMC/XMCs and sub-system enclosures, with over 100,000 boards delivered, as well as custom integrated systems to take on the most challenging projects in the harshest environment and succeed. As a pioneer in space applications, Aitech offers an unparalleled space pedigree with trillion of miles flown in a variety of space missions without a single failure. At Aitech, we stand behind our product and customer to secure a better tomorrow.



Apollo Power

<http://www.apollo-power.com>

Categories

- Nano Technology
- Optronics
- Climate Tech

Company Profile

Apollo Power develops technology solutions and products in the field of solar energy. Its flagship development is a flexible solar film designed to transform any surface under the sun into an energy production source.

The company's patented solar film technology is based on a cell configuration of bottom electrodes, an exclusive active "solar paint" material, and a dedicated developed plastic membrane.

The company's products include the Apollo Battery Guard, which prevents a car's battery from discharging, assuring the battery is full at all times; and Apollo ToGo, which is a charger that can charge any 5V USB appliance such as a smartphone or GoPro.



Asterra

<https://asterra.io>

Categories

- Satellites
- Climate Tech
- Leak Detection

Company Profile

Asterra has developed a technology that can identify and locate different types of subsurface water using microwave imaging from either a satellite or an aircraft-mounted synthetic aperture radar. Asterra can identify subsurface water near critical infrastructure such as water and sewer pipes, roadways, and railways.

Asterra successfully commercialized its leak-detection product in 2016 and has completed hundreds of projects worldwide, identifying over 10,000 confirmed leaks in countries including the United States, Italy, the United Kingdom, Chile, China, and South Africa.



Astroscale

<https://astroscale.com/>

Categories

- Space
- On Orbit Servicing

Company Profile

Astroscale is the first private company with a vision for the safe and sustainable development of space for the benefit of future generations, and the only company solely dedicated to on-orbit servicing across all orbits.

Founded in 2013, Astroscale is developing innovative and scalable solutions across the spectrum of on-orbit servicing, including life extension, *in situ* space situational awareness, end of life, and active debris removal, to create sustainable space systems and mitigate the growing and hazardous buildup of debris in space. Astroscale is also defining business cases and working with government and commercial stakeholders to develop norms, regulations, and incentives for the responsible use of space.



ATCC

<https://www.atcc.org/>

Categories

- Public Health
- Research
- Biological Materials

Company Profile

ATCC offers the scientific community credible biological products, advanced model systems, and custom solutions that support complex research in a variety of innovative applications resulting in incredible achievements in basic science, drug discovery, translational medicine, and public health.

To support life science research into the future, we're expanding into markets with growing needs, launching comprehensive products and services for biological materials, continuing to partner in the fight against global disease, and enabling the creation of new technologies.



Axio

<https://axio.com/>

Categories

- Cyber Risk Management

Company Profile

Axio enables security and business leaders to focus on risks that matter. Faster insights that everyone understands.



CAARESYS

<http://www.caaresys.com>

Categories

- Radar
- Sensors
- RF Technologies

Company Profile

CAARESYS is developing a non-contact passenger-monitoring system based on radio-frequency technology (camera-free) that aims to make the vehicle cabin safer. The system utilizes vital signs to detect the location, health condition, and state of each occupant. The algorithms provide an intelligent understanding of the passengers and their unique human signatures.

CAARESYS's BabyCaare is a child/human/pet presence-detection solution. The system is able to detect humans in the cabin space and helps prevent tragic accidents. The system fulfills NCAP 2022 regulations and provides an optimal and reliable solution for OEMs and passenger safety.

VitalCaare is a passenger vital-sign-monitoring solution. The system monitors passengers' vital signs including respiration rate, heart rate, and heart rate variability. VitalCaare operates in static and driving mode. This data provides users with the ability to understand passenger states such as stress and fatigue.

CabinCaare is a vehicle occupancy system. The system detects each seat's occupancy state and counts the number of passengers in the cabin. CabinCaare helps provide cost reduction and efficiency.



Cielo Inertial Solutions

<http://www.cielo-inertial.com/>

Categories

- Space Tech
- Lasers
- Optronics
- Sensors
- Navigation

Company Profile

Cielo Inertial Solutions specializes in inertial technology solutions including reference, control, stabilization, and navigation solutions for defense and commercial applications in the air, on land, at sea, and in space. The company holds more than 40 patents and has advanced facilities and a decade of experience in the development and manufacturing of electro-optical and fiber-optic systems.

Cielo specializes in fiber-optic gyroscopes (FOG), inertial measurement units, and inertial navigation systems. The company is also a major supplier in Israel for closed-loop FOG sensors used in a wide variety of navigation and control applications. All of Cielo's products are in full compliance with International Traffic in Arms Regulations.

The company was acquired by Aeronautics in 2007 and has been equally owned by Rafael Advanced Defense Systems and Kearfott Corporation of America since 2014.



Cognyte

<https://www.cognyte.com/>

Categories

- Artificial Intelligence
- Threat Detection
- Data Analytics

Company Profile

Cognyte develops security analytics software that provides governments and enterprises with actionable intelligence.

Cognyte's solutions accelerate security investigations to successfully identify, neutralize, and prevent threats before they unfold. The company's open software fuses, analyzes, and visualizes disparate data sets at scale to help security organizations find the needles in the haystacks and transform data into actionable insights.

Cognyte is a spinoff of Verint Systems.



D-MARS

<https://www.d-mars.org/>

Categories

- Research

Company Profile

D-MARS - Desert Mars Analog Ramon Station is a space analog research center in Israel, in which analog astronauts go on a scientific journey of exploration that simulates an actual mission on the surface of the planet Mars.

Today, space analogs are becoming well-developed sectors of space science disciplines, used to train future human explorers, test related hardware and make space more accessible to the general public.

D-MARS was established in 2017 and began performing an analog mission to Mars in 2018. Since then, D-MARS has performed several analog missions, created special educational programs and established a unique and state of the art course for Ramonauts and control room operators.

D-MARS is collaborating with Israelis companies, international universities and research centers, educational institutions and space related organizations.

D-MARS have collaboration in the fields of architecture, agriculture, electricity, solar systems, psychology and human behavior, microbiology and more.



Elbit Systems Ltd.

<https://elbitsystems.com/>

Categories

- Border security
- Coastal surveillance security systems
- Airport security systems
- Perimeter security (Large sites & border areas)
- Transportation security
- Pipeline security systems

Company Profile

Elbit Security Systems (“ELSEC”), our wholly owned subsidiary, specializes in the development, manufacture, delivery and installation of security solutions, including: long, medium and short range day-night surveillance sensors, surveillance vehicles with EO sensors and radars, small UAS, electronic and fiber-optic intrusion detection fences, security C4I centers, IP security surveillance networks management.

The systems are in continuous service by coastal surveillance and border security units, by the military, police forces and by other law enforcement agencies. ELSEC provides an advanced technological approach, meeting the challenges of all required Security applications: Border, Coastal and Perimeter Control via the deployment and implementation of cutting-edge systems based on innovative components enabling modular deployment in different configurations suitable.



ELTA Systems

<https://www.iai.co.il/about/groups/elta-systems>

Categories

- Radar
- Sensors
- Artificial Intelligence

Company Profile

ELTA Systems develops defense systems, specializing in electromagnetic sensors (e.g. radar, electronic warfare, and communications) and integrated solutions. Its products are designed for intelligence, surveillance and reconnaissance, early warning and control, self-protection and self-defense, target acquisition, and fire control applications.

The company's components and subassemblies are designed and produced in-house, enabling ELTA Systems to offer comprehensive solutions tailored to the specific requirements of its customers and users.

ELTA Systems is a wholly owned subsidiary of IAI.



Elul Technologies LTD

<https://www.elul.com/>

Categories

- Consulting

Company Profile

Elul Technologies was established in 1973, and as of 2020, is a wholly owned subsidiary of AVRAZ Consulting Ltd., providing complete solutions and services to multinational companies and manufacturers.

As Israel's premier technology, consulting and marketing company in the Defense & Aerospace industry, we offer our clients a comprehensive range of solutions and services; business development, marketing & sales, outsourced project management, technical and engineering services, pre- and post-sales support, program management and ILS (Integrated Logistics Services), both locally and internationally.

Our team consists of highly qualified, knowledgeable and experienced professionals, working with our clients worldwide. From the planning phase to a successful completion, we guarantee top quality results.



GorillaLink

<https://www.gorilla.link/>

Categories

- Satellites

Company Profile

Gorilla Link is a plug and play PaaS solution that seamlessly enables connectivity of smart devices across multiple satellite networks providing 100% global coverage.

We want to re-define the way industries seamlessly utilise their communication devices in a smart and unprecedented way, that allows them to be more efficient and cost effective.

Easy to integrate edge to cloud via satellite connectivity solution. Billing, link management and on boarding process in a single Platform as a Service.



<https://project-helios.space>

HELIOS

Categories

- Space Tech
- Metals
- Electronic Manufacturing

Company Profile

HELIOS is developing a reactor capable of processing lunar or Martian soil into oxygen and metals. The company's solution output yields two highly crucial materials at the same time and does not require Earth-brought consumables. The reactor will operate independently from Earth.

Another potential use of the HELIOS reactor may be to supply oxygen from the lunar surface to Earth orbit, which requires 26 times less energy than launching it from Earth.

HELIOS's vision is to make humans multi-planetary. It aims to develop technologies that can utilize resources on site, first to drastically reduce the cost of initial establishment and eventually to enable colonists to live off the land.



<https://ics-security.com/>

ICS Security

Categories

- Cyber Security
- Critical Infrastructure

Company Profile

ICS-Security offers a comprehensive suite of cyber security solutions to protect Industrial Control Systems in Critical Infrastructure and the manufacturing industries. Our team is composed of experts who served in leading positions leaders in cyber security and Industrial Control Systems.

With more than 19 years of experience, our solutions address the vulnerability of critical infrastructure to cyber-attacks, which are derived from external and hostile IT networks, as well as from the ICS network itself We have developed an advanced industry standard solution with integrated defense capabilities that provides extraordinary outcomes. These consist of a Network Intrusion Detection System (NIDS) and a Host Intrusion Prevention System (HIPS).



Israel Aerospace Industries

<http://www.iai.co.il/>

Categories

- Cyber-Security
- Unmanned-Aerial-systems
- Space-Tech
- Robotics

Company Profile

Israel Aerospace Industries (IAI) is an aerospace and defense company developing technologies in space, air, land, naval, cyber, and homeland security for defense and commercial markets.

IAI provides customers with tailor-made solutions to the unique challenges they face including satellites, unmanned aerial vehicles, missiles, intelligence solutions, weapon systems, air defense systems, robotic systems, radars, business jets, aerostuctures, and more.



ImageSat International

<https://www.imagesatintl.com>

Categories

- Satellites
- Data Analytics
- Optronics
- Space Tech
- Mapping

Company Profile

ImageSat International N.V. (ISI) provides geospatial and geo-intelligence solutions for defense and intelligence customers.

The company's earth imagery and mission-critical intelligence are based on its Earth Remote Observation Satellites, third-party remote sensing satellites, and additional data sources.

Governments, agencies, and corporations use ISI's expertise to achieve strategic situational awareness and to plan and implement policy, intervention, and reactive actions in a wide range of fields.



K2 Global Communications

<https://k2-gc.com/>

Categories

- Global Communication

Company Profile

K2 Global Communications is a premier American-run, boutique B2B marketing, content, public relations, and client communications company based in Israel.

Our philosophy and experience were forged in the nexus of Israel's high-tech climate over more than a decade. We have witnessed firsthand what works – and what doesn't – allowing us to identify the gaps in a company's approach to help guide them.

While the bulk of our clients come from the Israeli tech sector, we have worked with clients across industries and geographies, from AI to IoT and from cybersecurity to storage, across North America to the EU.



Mobit Telecom

<https://www.sat406.com>

Categories

- Satellites
- Space Tech
- Navigation
- Telecommunication

Company Profile

Mobit is involved in the development of a GPS-based search-and-rescue system, named MEOSAR, in the framework of a couple of H2020 projects administered by the European GNSS Space Agency. Mobit is also introducing an affordable wrist-worn personal locator beacon based on this technology.



Ness Technologies

<https://www.ness.com/>

Categories

- Technology
- Intelligent Engineering Process

Company Profile

Cloud first and SaaS platforms are transforming how software is built, monetized, and used. With our core DNA in product engineering, for over 20+ years, we have partnered with several leading technology companies in co-creating their next-gen software products and modernizing legacy products through our global, scaled engineering teams.

With our industry leading intelligent engineering processes and tools that are based on automation, data-driven productivity management, agile maturity-based customer engagement, we help our clients accelerate speed-to-market, time-to-value and get more product done.



NewRocket

<http://www.newrocket.co.il/>

Categories

- Astronautics
- Space Tech
- Astrospace

Company Profile

NewRocket is developing proprietary gel technology that enables a stable and non-toxic engine propellant, without sacrificing performance or control. NewRocket's gel propellant combines the advantages of liquid and solid propellants. Safe to use and transport, the propellant will improve rocket performance, offering a powerful thrust that can be controlled and extinguished when needed. NewRocket's gel propulsion technology is designed to meet the strictest industry regulations.

The company has successfully completed a proof of concept for the proprietary technology and identified key applications for the aviation, space, and power generation markets. NewRocket is associated with the Technion – Israel Institute of Technology.



Rafael Advanced Defense Systems

<http://www.rafael.co.il/>

Categories

- Radar
- Satellites
- Artificial Intelligence

Company Profile

Rafael Advanced Defense Systems designs, develops, manufactures, and supplies a wide range of high-tech defense systems for air, land, sea, and space applications, including air defense, missile, targeting, electronic warfare, guided weapons, and underwater systems.

For homeland security applications, Rafael's Security Integrated Systems offer threat detection, identification, and deterrence along with comprehensive situational management to protect seaports, coastlines, offshore critical infrastructure, and borders.

Rafael supports its comprehensive product range with numerous components and subsystems developed and produced by the company's advanced technology production centers. These include electromagnetic, RF, microwave, advanced materials, optical, propulsion, and energetic materials systems and subsystems.

Rafael supplies advanced defense systems to the Israeli Defense Forces and foreign customers around the world. It also forms partnerships with civilian counterparts to develop commercial applications based on its proprietary technology.



<https://www.ramon.space/>

Ramon.Space

Categories

- Astrospace
- Astronautics
- Space Tech

Company Profile

Ramon.Space has developed a low size, weight, and power integrated space computer system.

Powered by AI/ML processors, Ramon.Space's software-defined and programmable systems provide high flexibility in features, optimized power usage, and in-orbit software updates for future services and capabilities. The system is resilient to radiation, extreme temperatures, zero gravity, and vacuum. The systems also include space-optimized computer vision, AI and machine learning models pre-trained for space, modems, routers, and many other application building blocks.

The company's technology is already deployed in space and used in many satellites and more than 50 space missions across the solar system with zero failures.

Samsung Research

Samsung Research

<https://research.samsung.com/>

Categories

- R&D
- Artificial Intelligence

Company Profile

Samsung Research is the advanced research and development (R&D) hub of Samsung's Consumer Electronics (CE) Division and IT & Mobile Communications (IM) Division. Samsung Research leads the development of the future technologies with more than 10,000 researchers and developers working in overseas R&D centers.

Under the vision of "Shape the Future with Innovation and Intelligence", it is actively conducting research and development (R&D) to identify new future growth areas and secure advanced technologies for its products & services to create new value and improve people's lives.

Core research themes at Samsung Research include artificial intelligence (AI), data intelligence, next-generation communications, robot, Tizen, life care & new experiences, next-generation media, and security. In particular, it is expanding its research scope to new promising fields to realize a new lifestyle based on AI technologies.

The hub is working in collaboration with 14 overseas R&D centers in 12 countries worldwide and 7 global AI centers to secure innovative technologies and enhance its global R&D capacity. It is equally maximizing technological cooperation through active open innovation with distinguished universities, research institutes, and partner companies globally that have the world's best technologies.

Samsung Research promises to continue working hard to become a global top research institute that creates new values for the future through ceaseless innovation and intelligence.



SatixFy

SatixFy

<http://www.satixfy.com>

Categories

- Telecommunication
- Antennas
- Space Tech
- Satellites

Company Profile

SatixFy designs next-generation satellite communication systems based on in-house-developed chipsets. SatixFy develops a line of satellite communication modems with software-defined radio and electronically steered multi-beam antennas to support advanced standards such as DVB-S2X.

SatixFy's ASICs can increase system performance and reduce the weight and power requirements of terminals, payloads, and gateway equipment. The company delivers small VSATs and multi-beam electronically steered antenna arrays for a variety of mobile applications and services such as connected car, IoT, consumer broadband, airline broadband communications, and communication payloads.



<https://www.sigma360.ai/>

Sigma 360 AI

Categories

- Artificial Intelligence
- Risk Assessment
- Prediction

Company Profile

Sigma brings Israeli intelligence-based capabilities to the business world, providing businesses and organizations with smart data collection and analysis. With Sigma, the points on any given entity and from a variety of sources, organizational and external, are instantly and holistically connected. This enables all relevant data to be generated into real-time risk assessment prediction with high accuracy.

Your company will be able to process and analyze all data in the digital space to understand the past, respond to the present and predict the future - smartly and successfully.



SIEMENS

SIEMENS

<https://www.siemens.com/global/en.html>

Categories

- Supply Chain
- Infrastructure

Company Profile

Siemens is a technology company focused on industry, infrastructure, transport, and healthcare. From more resource-efficient factories, resilient supply chains, and smarter buildings and grids, to cleaner and more comfortable transportation as well as advanced healthcare, we create technology with purpose adding real value for customers. By combining the real and the digital worlds, we empower our customers to transform their industries and markets, helping them to transform the everyday for billions of people.

Spacecom Satellite Communications

<http://www.amos-spacecom.com>

Categories

- Satellites
- Telecommunication
- Space Tech

Company Profile

Spacecom Satellite Communications is a global fixed-satellite service provider operating the advanced AMOS satellite fleet, which currently consists of four tailored end-to-end communication solutions for the media and broadband industries. Operating the advanced AMOS satellite fleet, Spacecom provides broadcast and broadband satellite services with Pan-European, Pan-African, Middle Eastern, Russian, and Asian coverage and cross-region connectivity.

Spacecom's controlling shareholder is Eurocom, a privately owned communications group. Additional shareholders include General Satellite Services Co. Spacecom's partners include a variety of broadcasters and satellite service providers throughout Europe, the Middle East, Asia, and Africa.



Space Plasmatic LTD

<https://space-plasmatics.com/>

Categories

- Plasma Technology

Company Profile

Space Plasmatics (SP) is a limited liability company that was founded by Dr. Igal Kronhaus in 2021. SP commercialize patented plasma technology developed at the Aerospace Plasma Laboratory, Technion. Our first product is a propulsion module for CubeSats to be flown on the RAKIA mission, to be launched to the International Space Station (ISS) in February 2022.

SP is located in the Technion, Haifa, Israel.



SPiN
SIMPLIFY SPACE MANUFACTURING

SPiN

<https://www.spinintech.com/>

Categories

- Manufacturing
- Satellites

Company Profile

SPiN offers the MA61C, a universal adapter to transform incompatible off-the-shelf components to plug-and-play for satellite manufacturers.

We accelerate the technology cycle by enabling faster integration through the adapter, to rapidly replenish depleted satellite systems.

Our adapter connects to most off-the-shelf components, delivering costs reductions on average of 50% on design, and 30% on production, and removing a year from integration time.



StemRad

<https://stemrad.com/>

Categories

- Personal Radiation Protection
- Astronauts

Company Profile

StemRad is a world leader in the provision of personal radiation protection solutions. Our technology is the first to offer life-saving protection from penetrating ionizing radiation and is making the lives of first responders, military personnel, utility personnel, medical teams and astronauts safer without compromising mission objectives.

Groundbreaking science and careful attention to user needs allow StemRad to provide the wearer with the mobility and comfort required to perform critical tasks while remaining safe in the event of exposure to harmful radiation. Comprised of radiation biology experts, nuclear physicists, designers, and engineers and backed by dozens of prominent doctors and scientists including 3 Nobel Laureates, StemRad provides cutting edge technology to protect our heroes on Earth and beyond.



Terra Space Lab

Categories

- Space Tech
- Satellites
- Infrared

Company Profile

Terra Space Lab is developing a nanosatellite-based infrared earth observation system.



WeSpace Technologies

<http://www.wespacotech.com/>

Categories

- Space Tech
- Artificial Intelligence
- Autonomous Vehicles

Company Profile

WeSpace Technologies was established to develop deep-space exploration projects.

WeSpace's flagship project is an autonomous vehicle platform with integrated artificial intelligence for planetary exploration. WeSpace will also provide all the activities leading up to its launch and the operation of its missions. The vehicle, which will be designed specifically for extreme environmental conditions, will serve as a platform that can carry a wide range of sophisticated payloads optimally suited for exploration in the fields of astrobiology and planetary geology, among others.

The mission-specific payloads will include diverse sensors for remote sensing of a wide variety of elements and minerals, for detecting extraterrestrial life forms, as well as for other exploration missions. The initial model of this autonomous vehicle will be designed for the exploration of lunar lava tubes and caves.



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