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10 Lineage’s footprint in Asia through Singapore
16 TESSOL raises INR 7.5 Cr from Mela Ventures
34 IARW and IRTA to merge

5 News: India
7 Event Report
10 News: Asia
11 Conversation
In conversation with Dr. Soumalya Mukherjee, Co-Founder, Tan90
15 Global News
18 Innovations
Innovations in the Cold Chain Solutions Sector
23 Event Report
CoolTech 2022: Innovation and data sharing
25 Cargo Monitoring
Matilda Bouchet, Managing Director, Head of Cargo at Nexxiot
31 Event Calendar

30 Success Story
New Cardiff Business School study helps build tomorrow’s intelligent cold chain supply for Tower

www.ColdChainManagement.org
Refcon unveiled its new production facility

May 2022 | Refcon Engineering Services unveiled its new production facility located 50 km from Pune head office at Shirwal (Mumbai-Bangalore expressway). Many Refrigeration industry experts, customers, family & friends attended the grand event. This new production facility is fully dedicated to manufacturing of Evaporative condensers, Screw compressor packages, packaged chillers & skid mounted condensing units. Refcon now produces SS 304L tubes for its established UMA Evaporative condensers (at the new facility). The Refcon was founded by Mr. Sharang Natu in 1987. Under the able leadership of their mentor Mr. Sharang G. Natu (Managing Director), the company has successfully executed a number of prestigious refrigeration projects covering almost all the application of Refrigeration. The company has grown under his dynamic leadership and now well known as a leading company in the field of Industrial Refrigeration.

Cold Chain startup Celcius raises 4.5 M in bridge funding round

April 2022 | The round saw participation from Mumbai Angels, Supply Chain Labs, Endurance Capital, V_cats, Keiretsu Forum, Huddle, EVAN and others.

Swarup Bose, Founder and CEO, Celcius.

Celcius, a cold chain marketplace startup, has raised USD 4.5 million in a bridge funding round with Mumbai Angels, Supply Chain Labs, Endurance Capital, V_cats, Keiretsu Forum, Huddle, EVAN and others. This round is part of the larger Series A funding that the brand is aiming to close for USD 10 million in the coming months. In August last year, Celcius received USD 500,000 in a seed fund round from Mumbai Angels Network, along with Huddle, Lumis Partners, Venture Capital & Private Equity firms MaGEHold, Keiretsu Forum, Eaglewings Ventures Alliance Network (EVAN), and investors from Malaysia, Nigeria, and the US. The brand successfully utilized the funds to scale up its operations and diversify the services on its platform by integrating WMS (Warehouse Management System) and TMS (Transportation Management System). The Mumbai-based startup will utilize the freshly infused capital to expand geographically to over 500 cities this year.
Emirates SkyCargo concludes a successful Air Cargo India engaging with its industry partners

Emirates SkyCargo has concluded a successful Air Cargo India in Mumbai, engaging with its industry partners and customers through a packed schedule of meetings, panel discussions, networking events and media briefings, culminating in a celebratory awards and gala dinner event for over 300 guests.

Leading the Emirates SkyCargo delegation at Air Cargo India, Jassim Saif, VP Commercial, West Asia, Emirates SkyCargo said: “This is our first major cargo conference on Indian soil since 2019 and meeting clients face to face is such an integral part of doing business here. There were lots of updates to share and business opportunities to discuss; from offering our customers more cargo capacity with our expanding freighter fleet, to our plans to help connect India’s agri-tech farmers to a wider network of clients from Dubai.”


Today, we are proud to serve customers at nine gateways in India offering rapid access to global markets through our network, as well as unmatched solutions for all manner of important export goods from pharma and perishables to textiles and high value tech items.”

Abdulla Alkhallafi, Emirates SkyCargo Cargo Manager, India and Nepal said: “By supporting agri-tech farmers, the pioneers in their field and connecting them with potential business and growth opportunities will also help Emirates SkyCargo grow more out of India, particularly around perishables.”

In the coming months, Emirates SkyCargo will identify and invite a number of Indian agri-tech farmers who practice sustainable farming and circular economy principles, to participate in next year’s Gulfood, one of the world’s largest food distribution exhibitions held annually in Dubai.

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On the opening night of Air Cargo India, Emirates hosted 300 guests from the cargo and logistics industry, treating them to Emirates' world class hospitality including a raffle to win Business Class tickets to Melbourne, money-can’t-buy Emirates hospitality passes to the highly anticipated cricket T20 World Cup clash between India and Pakistan, and a coveted cricket bat signed by the Indian cricket team.

Emirates SkyCargo also picked up an award on the second night for its shipment of Covid-19 vaccine. The Global Air Cargo Transport Leader of Covid Vaccine Award was given to Emirates SkyCargo after it transported more than 1 billion doses of COVID-19 vaccines on its aircraft.
May 25, 2022 | The motto of the leading trade show for the global fresh produce business, which will take place from 8 to 10 February 2023 in Berlin, is ‘All in ONE’. Exhibitors can still register for a stand until 31 July 2022. When the global fresh produce industry gathers under one roof in Berlin from 8 to 10 February 2023 its motto will be ‘All in ONE’. Companies who decide to take part will benefit from FRUIT LOGISTICA gathering the industry’s leading global players under one roof as well as representing the entire value chain for fresh produce, from growers to the point of sale. The results of this year’s exhibitor and trade visitors surveys show how important FRUIT LOGISTICA is for this sector. Among them are that 85 per cent of exhibiting companies gave a positive assessment of their business following their participation, and that some 80 per cent of trade visitors occupied a senior role in their company. These are two of the main reasons why taking part in FRUIT LOGISTICA is so important for the economic success of many companies in the fresh produce sector.

Kai Mangelberger, Director of FRUIT LOGISTICA: “FRUIT LOGISTICA not only brings exhibiting companies together with leading decision-makers, it also enables face-to-face meetings, which in the fresh produce industry, being so dependent on trust, is extremely important. By taking part in only one trade show and taking only one trip you can meet the whole world of fresh produce. In short it is an event that offers ‘All in ONE’.”

Companies have until the end of July to register for FRUIT LOGISTICA 2023. Full details on how to register for a stand can be found on the website of FRUIT LOGISTICA. If you have any queries the team of FRUIT LOGISTICA in Berlin or one of Messe Berlin’s 150 local representatives around the world will be only too glad to assist.
With the launch of Los Angeles hub, Tower Cold Chain sets sights on doubling its global network

May 2022 | With the launch of its Los Angeles hub, Tower Cold Chain confirms it is on track to double the size of its global network during 2022. Each new hub helps pharmaceutical businesses and airlines to access Tower’s range of robust, reliable and reusable temperature-controlled containers. The latest hub, located 18 miles from LAX international Airport, gives Tower its first location on the West Coast of America, a pivotal region in terms of access across the Pacific and into South America.

The Los Angeles hub is operated for Tower by DSV, the first time the freight forwarder has collaborated with the company. With up to 10,000 sq. ft of dedicated, secure warehousing, the hub will be used to house products across the Tower range.

“By having strategic locations around the world, we can guarantee proximity and availability of our containers – allowing customers to ship temperature-sensitive pharmaceutical, life-sciences and biotech products,” said Natalie Robinson, Global Head of Operations at Tower Cold Chain.

“Each hub opening strengthens our global presence, something reflected in our recent recognition with the Queen’s Award for Enterprise in International Trade. We’re on course to double the network during 2022, as well as expanding many existing hubs to full-range despatch capacity.

CSafe Global appoints Micki Turner as Chief Human Resource Officer

May 2022 | DAYTON, Ohio – CSafe Global, the innovation leader in temperature-controlled shipping solutions for the transport of life-enhancing pharmaceuticals, announced that Micki Turner has joined the company as Chief Human Resources Officer.

In her new role as CHRO, Turner will be responsible for developing and executing human resource strategy in support of the company’s ambitious growth goals, specifically in the areas of succession planning, talent management, diversity and inclusion, change management, organizational and performance management, training and development, and compensation.

Her considerable expertise in change leadership will be instrumental as the company continues integrating the Softbox Systems organization, following the acquisition in December 2021.

Ms. Turner brings 20 years of progressive leadership in human resources across the aerospace, financial services and pharmaceutical industries. Prior to joining CSafe Global, she was an executive HR leader at GE Aviation responsible for seven manufacturing facilities producing commercial and military aircraft engine components.
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Lineage’s footprint in Asia through Singapore

May 2022 | Singapore – Lineage Logistics, LLC., the most innovative temperature-controlled industrial REIT and logistics solutions provider, announced it has acquired Mandai Link Logistics ("Mandai"), marking the Company’s market entry into Singapore. Financial terms of the transaction were not disclosed. “Mandai established Singapore’s first fully automated cold storage facility and has been long considered a local market leader in the provision of cold storage warehousing and distribution services,” Jeff Hogarth, President Asia Pacific at Lineage, said. “Tan Seng Eng, CEO of Mandai, is a visionary who made a huge bet by investing early in automation, and we are pleased that she will stay on as an advisor to Lineage.”

Mr. Hogarth said expanding Lineage’s footprint in Asia through Singapore as a major trading hub has been a long-term strategic goal for the Company. “Mandai’s facilities, combined with our industry-leading technology and innovations, will assist customers to navigate increasing supply chain demands in Singapore and internationally. “We look forward to working closely with Mandai’s customers on these new opportunities.” Mandai serves as a one-stop hub for refrigerated food distribution in Singapore with a full range of solutions including procurement, transport and warehousing. It has a fleet of refrigerated trucks and has a facility that can house 28,000 pallets. Mandai main facility is fully automated, has integrated solar power, and a rainwater collection system for washing its refrigerated trucks.

Carrier Transicold crosses Milestone, with over 1.5 Million Refrigeration Units sold

May 2022 | Singapore – Carrier Transicold has achieved another industry milestone by surpassing 1.5 million container refrigeration units sold. Carrier Transicold is a part of Carrier Global Corporation. the leading global provider of healthy, safe, sustainable and intelligent building and cold chain solutions.

Carrier Transicold has led the container refrigeration industry with many innovations to improve cargo protection, environmental sustainability and performance, including the NaturaLINE® unit, which is the first container refrigeration system to use the natural refrigerant carbon dioxide (CO2) resulting in an ultra-low global warming potential of 1.

To date, more than 2.5 million metric tonnes of CO2 emissions have been avoided with NaturaLINE units and PrimeLINE energy-efficient units. This is equivalent to removing more than 545,000 gasoline-powered passenger vehicles from the road. The units support Carrier’s Environmental, Social & Governance (ESG) goals of reducing customers’ carbon footprint by more than 1 gigaton by 2030.

“Hitting the 1.5-million-unit milestone is possible because of the hard work of our dedicated employees and continued trust of our valued customers around the world,” said Kartik Kumar, Vice President & General Manager, Global Container Refrigeration, Carrier Transicold.
In conversation with Dr. Soumalya Mukherjee, Co-Founder, Tan90

What products or services does your company offer?
Tan90 works on the development and manufacturing of Phase Change Materials, a passive cooling product that can store thermal energy in the form of latent heat. This is a platform technology that can impact many industries, of which cold chain is a major segment.

With our wide range of PCM (from +38 to -24 degrees centigrade), we provide targeted temperature retention for various food segments starting from frozen foods to ambient temperatures. Based on this core technology we provide products for cold chain industry in various form factors, which includes insulated boxes and bags aimed tailored for MSMEs.

What are your most recent product innovations?
We have just launched Freezo-Wrap, a string of PCM sachets that can be wrapped around ice cream tubs, and is specifically designed for last mile movement of ice cream and frozen foods for quick commerce and e-commerce services.

The PCM sachets consists of -18 degree PCM, that keeps the texture of ice cream intact while transportation. Since it can be wrapped around the tubs, the thermal management is much more efficient, as compared to normal gel packs that are of -1 degrees centigrade. Such PCM can also be used for the mid mile movement of ice cream, and businesses can replace the use of dry ice for the movement, which is a daily operational cost for them.

Apart from this, we have invested in our packaging solutions as well, and have the capacity to provide 30 lakhs sachets every month to our clients. Packaging of PCM is tricky as well, as leakage is often observed during transportation. We incorporate 5 layer nylon coated packaging solutions that prevent leakage while transportation. We have also launched our +30 degree PCM that has applications for space cooling technologies as well.

With our core technology of PCM, we are providing cold chain on trains, for horticulture produce.
Sensitive products and reduce their dependency on refrigerated trucks.

What are your plans to grow the business in 2022?
We are focusing on providing and extending our solutions for the mid mile and last mile movement of perishables for the quick commerce and e-commerce businesses. Not only on the product side, we are also working on enabling the dry shipment logistics sector to expand their businesses to the cold chain segment as well, by providing them flexible and modular infrastructure. This will enable us to foray into the cooling as a Service model (CaaS) which is still in infancy in India. We would like to expand and scale up our CaaS model to 4 cities in this year, that would enable us to provide an end to end and a one-stop solution/platform to our clients. Moving into other geographies are also on the cards with a major focus on Middle East and South Asia segments.

Could you please share your views on Temperature Controlled Logistics Sector for our readers?
The lockdown along with the advent of quick commerce players, and scaling fast, there has been a tectonic shift in the cold chain industry. With a sudden requirement for infrastructure to store and transport vaccines to the remotest parts of the country, the cold chain industry of India has shown phenomenal grit in overcoming the monumental job. Looking at Tier 2 cities, there is still a need for aggregating cold chain players under one roof that provides end to end solutions to clients, having both service and products onboarded alike.

What are the major trends and developments affecting your category and your customers, and how are you responding?
Quick commerce is a segment which was non-existent 3 years back. With the advent and the spread of such services in not only the Tier 1, but in the Tier 2 cities as well, the need for energy efficient and cost-effective cold chain has increased. With lower spread of cold chain infrastructure in the Tier 2 cities, it is imperative for service providers to give the infrastructure for the movement of frozen goods. This further stretches the already unorganized cold chain industry. This is exactly what Tan90 is solving. We are providing flexibility to our clients, not only with their target temperature but also with the aspect that they can now use any logistics service for the transportation of temperature sensitive products and reduce their dependency on refrigerated trucks.

What sectors do your customers operate in?
Since we are a platform technology, based on our proprietary Phase Change Material, we have the capability to cater to a lot of industries. Cold chain is a segment which is very dear to us. Consequently, we are currently serving the pharmaceuticals, quick commerce and e-commerce businesses for the last mile movement of frozen products.
Danfoss builds the supermarket of the future at its headquarters in Nordborg

April, 2022 | Danfoss hosted a ground-breaking ceremony for the construction of one of the world’s most energy-efficient supermarkets.

The Smart Store supermarket will be filled with the latest and most energy-efficient refrigeration and heating technology. Instead of allowing the heat produced by cooling cabinets and freezers to go to waste, it will be captured and reused to provide heating for the supermarket and the local community through district energy. The cooling system in the new supermarket will also run on carbon dioxide – a natural refrigerant – which helps to reduce the overall climate impact.

Kristian Strand, President, Refrigeration & A/C Controls, Danfoss Climate Solutions says: “This ground-breaking – a much awaited event – is more important than ever. The origins of this project go back a long time, but the new energy-efficient Smart Store supermarket that we are starting to build today has only grown in relevance. The goal of the project is to show how easy and profitable it is to decarbonize our economy and ensure reliable and sustainable energy use. Heating and cooling are the largest energy consumers in supermarkets. The solutions we are building here today represent the core of Danfoss solutions and will showcase how we can approach zero energy use in food retail together.” The state-of-the-art supermarket is situated right next to Danfoss’ headquarters and will lead the way for how supermarket chains around the world can build climate-friendly and sustainable stores with the technologies that already exist today. The supermarket will be completed in the summer of 2023. Additionally, this site will serve as an Application Development Center where Danfoss will work together with partners to co-develop new technologies and explore interfaces in the energy system surrounding energy storage.

Envirotainer is driving the shift to a more sustainable pharmaceutical cold chain

Stockholm | May, 2022: Envirotainer, the global market leader in secure cold chain solutions for air transportation of pharmaceuticals, published its Sustainability Report 2021. It illustrates that the company is driving innovation towards lower emissions, invests in R&D to create a more sustainable cold chain, and that collaboration is the way towards a more sustainable industry.

Based on Envirotainer’s market leading position, unique ecosystem, strong product and service portfolio, and passion for innovation, the ambition is to lead the transformation to a more sustainable pharmaceutical cold chain.

With 80-90 per cent of CO2 emissions in the pharmaceutical value chain coming from production and raw materials, stopping waste through temperature deviations in transport is vital. Envirotainer has temperature deviations of less than 0.1%, which is industry-leading. The business also supports a circular economy where its cold chain solutions are re-used hundreds of times during their lifetime. Its latest innovation, the Releye© range of containers, can reduce CO2 emissions by 90% compared to passive shipment solutions. Envirotainer is driving the shift from passive to active solutions. The Sustainability Report, along with additional information available on the website, describes Envirotainer’s economic, environmental and social impact.
MSC Chile sets record for reefer shipment

April 2022 | The MSC Carole vessel, which set sail on 2 April from Valparaíso to the port of Rodman, in Panama, registered the highest shipping record of reefer containers ever carried by MSC from Chile, with 2,082 boxes, equivalent to 4,164 TEUs. The shipment included mostly grapes, apples, pears, quinces, and frozen products (fruit, salmon, and seafood) destined to markets on the East Coast of the United States and Europe, two of the most important markets for reefer products exported from Chile.

The MSC Carole, built in 2021, has a capacity of 12,200 TEUs and 2,082 reefer plugs, which have been fully utilised for this shipment. She operates on the NWC-USA-SAWC service between Europe, the United States, and the West Coast of South America. Before MSC Carole, the record was held by MSC Madhu B, with nearly 3,540 TEUs of reefer containers carried in March 2020. Several factors contributed to MSC Chile reaching this new record. Francisco Herrera, Export Commercial Manager, MSC Chile, highlighted how the company can count on cargo capacity and container availability, even amid the current difficult operational environment.

Interko presents new Containerized Ripening Room at Fruit Logistica 2022

April 2022 | Interko is proud to announce re-launch of its Containerised Ripening Room under the brand name MOBILO at Fruit Logistica 2022, on 5-7 April in Berlin, Germany.

Developed and tested in partnership with Fyffes, the new ripening room has been branded Mobilo to emphasise its unique capability of being transported easily by truck or ship to anywhere in the world. This special mobility is thanks to Mobilo being constructed inside a standard insulated refrigeration container. The containerised ripening room can ripen up to 20 pallets of bananas, avocados or mangoes at the source or in the destination market.

Interko has already received a high level of interest in Mobilo. On top of its transportability, the room comes pre-fitted with Interko’s latest technology, including a fail-safe ripening control system.

This sensor-based programme is another significant feature which is set to revolutionise Interko’s ripening room offer. It allows fruit operators greater flexibility and responsiveness than ever before to perfect their fruit ripening cycles.
Vienns Airport and Lufthansa Cargo launch Pharma Cooperation

May 2022 | Vienna- The Vienna Airport Pharma Handling Center (VPHC) at Vienna Airport now also handles pharma freight for Lufthansa Cargo. As part of a cooperation between the Lufthansa Group’s cargo subsidiary and Vienna Airport, the handling of all pharma cargo transported on board Austrian Airlines aircraft to or from Vienna Airport will take place at the VPHC from now on.

With the VPHC, Vienna Airport operates its own GDP-certified competence center for handling temperature-sensitive air cargo without interrupting the cold chain. The VPHC will further strengthen Vienna Airport’s role as a pharma hub for Central and Eastern Europe with Lufthansa Cargo’s intercontinental network. Freight volumes here have grown significantly in recent years.

Lufthansa Cargo, the Group subsidiary responsible for freight in the Lufthansa Group, is also responsible for the cargo business of Austrian Airlines. On board its passenger aircraft, the Austrian flag carrier also distributes transport goods in an extensive intercontinental network as belly cargo, including pharmaceuticals, vaccines and other temperature-sensitive goods. The cooperation further establishes Vienna Airport as a strong pharma hub for Central and Eastern Europe. Austria’s most important international airport has significantly increased its tonnages in this area.

Nexxiot delivers Unprecedented Supply Chain Visibility with New Cargo Monitor

April 2022 | Zurich– Nexxiot, a pioneer in logistics digitization and a leading provider of TradeTech solutions, announced the launch of the new Nexxiot Cargo Monitor, a revolutionary sensor device which delivers unbeatable connectivity and data performance in a compact, easy-to-use design.

The Nexxiot Cargo Monitor promises to revolutionize global cargo shipping by delivering unprecedented real-time visibility of the location, status, and condition of shipments anywhere in the world. “There are approximately 40 million standard intermodal shipping containers in use around the world today, most of which are not tracked in any way,” said Matilda Bouchet, Managing Director, Head of Cargo at Nexxiot.

“Until now, shippers and cargo stakeholders have had little to no visibility to their goods in transit. Nexxiot’s new Cargo Monitor device seeks to completely shift the paradigm by providing end-to-end visibility and critical data in a rugged, cost-effective, and easy-to-deploy package.” The Nexxiot Cargo Monitor can be used to monitor the transportation of high-value and sensitive products, including perishables, pharmaceuticals, textiles, conditions-sensitive industrial products, electronics and more.

The device is simply attached to the cargo within the shipping container. Nexxiot’s proprietary, purpose-built software provides a seamless user experience to identify cargo-damaging shocks, excessive humidity, condensation, temperature, cargo provenance, and security issues. The sensor can also connect to Wireless Maritime Services (WMS) which provides connectivity on ocean vessels at sea via cellular and IoT networks.
May 2022 | India: Tan90, a company providing innovative thermal management solutions to businesses, has raised pre-Series A funding of INR 5 Cr led by Blue Ashva Capital. The round also saw participation from 3i Partners, and angel investors Shalini Chhabra and Venkat Nekkanti.

With this latest round of funding, Tan90 aims to expand its reach in India and South East Asia, optimize supply chains for present clients PAN India, increase product offerings and invest in R&D of products aimed at sustainable and green approaches for thermal management across industries. Apart from focussing on reducing the carbon footprint of the cold chain system, Tan90 will be working on industrial cooling and space cooling as well in the next few months.

Based on their propriety cooling technologies, Tan90 has been catering to food industries, pharmaceutical, and diagnostics industries and aims to reach out to thermal management of batteries, industrial cooling, and space cooling as well in the future. Tan90 solutions were showcased in the recently concluded COP26, demonstrating the potential for 1.5 degrees Centigrade compatibility, and the capability to reduce 6.6 MtCO2 emissions per year by 2030.
Bitzer expands its network of Authorized Retailers

April, 2022 | Sindelfingen | BITZER and wholesalers for the EMEA region are now in an even closer partnership in the form of the BITZER Authorised Network of Distributors. In future, only retailers represented in the network will be able to sell BITZER products. In doing so, the refrigeration and air conditioning specialist is preserving the high standard of its products and services on the free market.

BITZER is launching a new authorized retailer network known as the BITZER Authorised Network of Distributors (BAND) in order to strengthen its sales. Not only is BITZER recognizing and strengthening its wholesaler structure, but it is also offering greater protection for partners and end customers.

The new sales concept is based on the fundamental concepts of trademark protection and protection against counterfeit products and product piracy, as well as quality and sustainability which are guiding principles at BITZER. Over 40 retailers are already part of the BAND. In future, only they will be able to sell BITZER products on the free market in the EMEA region. If the system proves successful, other regions will follow.

BITZER is aware of the work of its long-term sales partners and wants to make a clear expression of commitment to its retailers in a changing market environment. For this reason, the long-standing company has decided to develop a network of authorised retailers. In doing so, BITZER is building on its years of experience and quality in sales and consulting in cooperation with its partners, in particular with a view to protecting the environment and safety standards for the good of customers and users.

Philipp Rodenberg, Head of Legal Services at BITZER, explains: ‘Authorized retailers follow our compliance guidelines such as our corruption and discrimination prevention guidelines. In turn, the BAND offers our sales partners a number of advantages including highly promising long-term prospects and security for their investments.’

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Cold Chain is rising as one of the emerging industries that can really contribute to the massive growth of Indian economy. While the industry has been there for some time, due to its niche category, it hasn’t been able to get the due attention it deserves. A lot has changed in the last couple of years.

With more and more Cold Chain companies now bridging the knowledge gap, the Indian Cold Chain industry is establishing an identity for itself and contributing a significant role in the Indian economy. The concept of Cold Chain has been re-defined from merely a method for cooling or agro-processing in the past, to one that integrates through procedures.

Limited to only preserving potatoes back in 1950s, to offering customized solutions currently, for today’s growing modern businesses that can leverage the benefits of Cold storage in the best possible manner, the Cold Chain industry is seeing a continuous development. Not only this but new technologies being used in the Cold Chain industry have started getting a lot of admission from associated sectors like diary, pharma, vegetables, meat etc. for better procurement of products. While much has been changing from adapting technologies like Phase Change Material (PCM) to
further strengthen the Cold Chain storage, there is a lot that still needs to be changed, especially a perspective towards the industry.

Emerging businesses are proving to be a life saviour for traditional businesses that are still relying on refrigerated trucks for moving products from one place to another. The demand is further heightened by pharma logistics, playing a key role in the Cold Chain space. While new entrants in the Cold Chain space are gaining an in-depth understanding of the industry, to not just survive but rather thrive in the coming times, it’s the old players that need to match the pace so to grow as an industry as a whole.

Businesses like grocery and quick commerce too are aiding in the growth of the sector and many are leveraging technology like PCM which is proving to be helpful for the Cold Chain industry. Besides large-scale enterprises and retailers, small vendors too are getting encouraged to use the technology in order to increase their sales and gain customer’s trust.

Solutions based on Phase Change Technology (PCM) or “thermal batteries” use customized chemicals with specific freezing and melting points (ranging from +18°C for use in chocolates to –25°C for use in ice creams). In comparison to previously used glycols, these materials are designed to be non-toxic and non-flammable – and therefore apt to be packed alongside food products. The proliferation of dark stores is also emerging as one sustainable option for Cold storages.

What’s standing out for PCM is that unlike previous options of gel packs and dry ice, these solutions are offering very accurate temperature control thereby, proving to be more effective. Not only this, but by making it more efficient, different temperatures can be maintained, in the same box, by using different PCM packs or cartridges depending upon the product or location to be delivered at. This further reduces the reliability on dedicated assets like reefer trucks which come with limited advantages and a higher cost. Seeing from an economics perspective, the capital
expenditure and operational expenditure also gets reduces by upto 50% compared to a refrigerated truck. Also, the cost gets limited as one pays for what one uses, and not the whole vehicle. These solutions suit models of e-commerce vendors very well and give them an edge over the traditional cold chain players while ensuring a cost-effective delivery to the customer, every time.

This also boosts the confidence of retailers as well as small business men who are constantly looking out for cost-effective solutions that can help them store products in a better and easy manner. These solutions are virtually maintenance free and since the bag or box, in which they are placed does not contain any moving parts, the chances of product getting damaged becomes almost nil.

While the functioning of Cold Chain business has enhanced, in today’s time, what is more important to see that there are other innovations which are expected in the coming times that can drive the Cold Chain industry in altogether new directions.

As the space witnesses unprecedented growth, it’s evident that embracing new technologies and innovation will be the way forward for the Cold Chain industry to thrive in the coming times, thereby contributing a larger role in the growth of Indian economy.
Lineage Logistics Expands Direct-to-Consumer Fulfillment Solution

June, 2022 | Lineage Logistics, LLC ("Lineage" or the "Company"), the world’s largest and most innovative temperature-controlled industrial REIT and logistics solutions provider, announced that it is expanding its Direct-to-Consumer ("D2C") Fulfillment solution to create a market leader in e-commerce for perishable customers.

As part of Lineage’s investment in D2C, Lineage has acquired Perishable Shipping Solutions ("PSS"), the premier e-commerce pick-and-pack order fulfillment service for brands requiring temperature-controlled storage and shipping. The acquisition of PSS follows the Company’s 2021 acquisition of Crystal Creek Logistics ("CCL"), a leading provider of last mile drop-ship order fulfillment for temperature-controlled goods.

Financial terms of the transaction were not disclosed. Lineage’s expanded D2C Fulfillment solution provides a complete e-commerce offering for the cold chain, accommodating two-day ground shipping anywhere in the Continental United States.

Maersk announces plans for new cold chain facility in New Jersey

June 2022 | SEI Segundo, California USA – Performance Team – A Maersk Company continues to expand and integrate end-to-end cold chains with the announcement of a new cold storage facility in Dayton, New Jersey opening in October 2022 to serve imports and exports. End-to-end supply chain solutions are created by Maersk’s Ocean services calling APM Terminals Elizabeth, New Jersey that can be integrated with Maersk Customs Services, USA Inc. customs clearance expertise and Performance Team – A Maersk Company’s 60+ warehouses and Transportation services – designed to serve storage, fulfillment, distribution and inland transportation needs.

Transpacific, Transatlantic, South America, Central America, Africa and Middle East markets are all served by Maersk, Sealand and Hamburg Sud ocean carrier services via the Port of New York/New Jersey. Performance Team – A Maersk Company New Jersey operations offer ideal access to the city’s major ports with a dedicated fleet of trucks and chassis used between the warehouse and the port to expedite inland transit for refrigerated cargoes.

Commodities include fish, poultry, beef, pork, fruits and vegetables. The Dayton facility will open in October 2022 and be operated by Performance Team – A Maersk Company. Site selection was based on close proximity to the container port at Elizabeth, NJ as well as one hour drive from the port of Philadelphia and 2.5 hrs to Baltimore and Delaware.
Lufthansa Cargo opens new Fine Arts warehouse at Frankfurt Hub

June 14, 2022 | Lufthansa Cargo opened its new Fine Arts warehouse facility at the Frankfurt Hub, thus continuing the path it has begun to modernize its largest airfreight hub. With 155 square meters, the ARTcube in the Lufthansa Cargo Center now offers its customers twice as much space for safe and professional storage of high-value Fine Arts of all kinds.

"The modern ARTcube combines optimal handling processes with the highest security features. This allows us to meet the special requirements of sensitive art objects and offer customized solutions for the storage of Fine Arts in our Hub," explains Thomas Rohrmeier, Head of Handling Frankfurt at Lufthansa Cargo. "With the new building, we have further sharpened our qualitative focus on this special product and thus curators and art collectors experience the best storage conditions for their Fine Arts shipments with us."

Fine Arts shipments will in future benefit from a special warehouse with modern technical equipment, in which a ventilation system with heating and cooling functions enables targeted temperature control.

Carrier Transicold’s Vector eCool selected as a finalist in the transportation category

May 2022 | Carrier Transicold’s Vector eCool selected as a finalist in the transportation category. Abound awarded honorable mention in the workplace category. Carrier is pleased to announce that Carrier Transicold’s Vector® eCool™, the first fully autonomous, all-electric engineless refrigerated trailer system, was named a finalist in the Transportation category of Fast Company’s 2022 World Changing Ideas Awards.

In addition, Abound, Carrier’s smart building platform, part of its Healthy Buildings Program, earned an honorable mention in the Workplace category. Carrier Global Corporation, is the leading global provider of healthy, safe, sustainable and intelligent building and cold chain solutions. The Fast Company World Changing Ideas Awards announced honor clean technology, innovative corporate initiatives, brave new designs for cities and buildings, and other creative works that are supporting the growth of positive social innovation, tackling social inequality, climate change and public health crises.

Carrier Transicold’s Vector eCool system is the first fully autonomous, all-electric engineless refrigerated trailer system, and represents a giant step forward for transport refrigeration. The Vector eCool system converts kinetic energy generated by the trailer into electricity, which is then stored in a battery pack to power the refrigeration unit.
On the 21st and 22nd of June, Cool Logistics and Port of Rotterdam hosted CoolTech 2022 in Rotterdam. With several speakers presenting their view on the current landscape in cool logistics, as well as their vision on what needs to change to help the industry move forward. The most heard notions were all about data sharing, rather than keeping data for yourself, so systems can communicate and everyone benefits in the end. To achieve this, investments will have to be done by the party that has had the most profits these past few years; shipping lines.

Little change in the reefer industry
After the opening address by Matthijs van Doorn, Vice President Commercial of the Port of Rotterdam Authority, Sun Intermodal president Mark Bennet spoke about the changes in reefer containers. “When it comes to insulated containers, really they’ve been unchanged for 25 years. And if we’re honest, no change has happened closer to 50 years.” He said. Bennet believes reducing power consumption is a good way to reduce costs, but using thicker insulation will provide the biggest step forward. It is time to innovate when it comes to reefer containers.

‘Embracing the change’ as a port
Raoul Tan, director of Naviporta at the Port of Rotterdam, shared his vision on the digitalization of ports. In order to stay relevant, they developed a system called Naviporta, a digital system to help with import and export. “Naviporta is a neutral system that has the goal of facilitating trade at heart. Our data will not be monetized and really helps with exporting to the United Kingdom, for instance. This system provides all needed documentation to export to the UK, and removes the paper, hassle and actually quite some of the costs. Effectively, we’re creating a fast lane to deal with all the issues that Brexit has created.”
Shipping lines are expected to use their profits for investments
“Where does the money come from?” This was the question that Matteo Iagatti wanted to answer in his presentation. Showing the attendants that the money has indeed been flowing for shipping lines ever since Covid started. Their income increased significantly, but their investments have also stepped up. In 2021, there was a 64% increase in investments by the sector, totalling 24.8 billion USD. “Shipping lines have indeed made a lot of money. I do not blame them though, this is capitalism at work.”

Data shows when to use controlled atmosphere for organic bananas
AgroFair is specialized in bananas, with a focus on the organic bananas. CEO Hans-Willem van der Waal stated that a big problem with transporting bananas is crown rot. Normally this can be stopped by using pesticides, but for organic bananas this isn’t an option. “Using controlled atmosphere as a standard would be too costly, as it would cost 1000 USD per container. Thanks to the data that we receive and have analysed, we now know when it would be optimal to use controlled atmosphere and when this isn’t really required. We now have minimized the risk of crown rot, while keeping the costs down, thanks to the data we have.”

Trackers help with temperature, theft of leased containers and damage to crops
Tive’s Director of Sales Matthew Holland spoke a bit on the benefits of their data trackers. The most important part in his view is to make sure everything arrives on time and in full. Trackers help with security, condition monitoring and visibility solutions. “Trackers can be disposable and sent back, and provide alerts and notifications either via phones or desktops. This can significantly help with food waste. For instance, we recently had a $90,000 asparagus shipment, where Solo 5G detected temperature fluctuations and we were able to bring it to the client’s attention immediately. It turned out the container had its temperature set to cycle. The mistake was corrected and the produce arrived on time and in full.”

Sharing data to make the cold chain more efficient
Carrier Transicold Telematics Sales Manages Alan Peart started out by noting that 13.5 tons of food could be saved from spoilage every 15 minutes if a cold truck was used. “It’s time to rethink how data comes into your organisation. For certified date it is crucial that your data is accurate and timely, and so we work with 3rd party solutions to make their solution the best it can be. On top of that, we can complement their system by providing additional data if the client requires it.” Peart made it clear it is vital for companies to start working together when it comes to sharing their data.

What does the growth of smart containers look like?
Martin Dixon, director of Drewry Shipping, brought the company’s latest assessment on the future of smart containers. It is their estimate that the smart container fleet is to grow 8-fold over the next 5 years: “By then, we’ll see 8.7 million smart containers, as the growth in 2021 alone was about 30%. That being said, in five years’ time, 66% of the smart containers will be dry containers, while the reefer fleet share will decline. When just looking at the reefer fleet, currently a third of the fleet is already smart. By 2026 we expect 90% of the reefer fleet to consist of smart containers.”
Matilda Bouchet, the Managing Director, Head of Cargo Monitoring at Nexxiot, is internationally oriented and successfully developing and growing accounts in new markets. With more than 20 years of experience with business development in global companies across retail, media, finance, and tech she gained advanced expertise serving as a champion for change at all organizational levels. Matilda Bouchet is a strong advocate of growth which is driven by technology and optimization.
What products or services does your company offer?
Nexxiot provides shippers, cargo owners, and supply chain facilitators with critical asset and cargo data across all stages of the cargo's journey. This brings trust, accountability, and process efficiency to all major stakeholders in the supply chain. The service includes revolutionary hardware devices, software, and Big Data analytics to create context and transparency around cargo movements, handling activities, cargo conditions, quality, security, and provenance of goods.

Until now, shippers and cargo stakeholders have had little to no visibility to their goods in transit. Nexxiot's new Cargo Monitor seeks to completely shift the paradigm by providing end-to-end visibility and critical data in a rugged, cost-effective, and easy-to-deploy package.

What sectors do your customers operate in?
Our clients operate in diverse sectors such as food, chemicals, retail, manufacturing, commodity trade, pharmaceuticals, luxury goods and electronics. The Nexxiot Cargo Monitor is used to monitor the transportation of high-value and sensitive products, including perishables, conditions-sensitive industrial products, self-heating substances, sensitive chemicals as well as pharmaceuticals, textiles, consumer electronics, luxury commodities, and household appliances.

The device is placed inside the container to provide essential data on temperature, humidity, light, movement events and other parameters to ensure the product quality of the cargo.

What are your most recent product innovations?
We have pushed the hardware design to new levels previously unseen in the sector. Part of that involves a unique antenna inside of the device, which vastly optimizes the connectivity. This is complimented by a radical approach to power management that ensures the continual transmission of essential data by the device to the Nexxiot Connect Cloud for long periods of time, and even in the most challenging conditions. The crucial innovations involve the data on the platform side. Nexxiot's unique algorithms add huge value to stakeholders who need hard facts, context and transparency on third parties as well as cargo handling for immediate intervention, improved processes or insurance cases regardless of the goods' whereabouts.
What are your plans to grow the business in 2022? Nexxiot is expanding rapidly in 2022. Major new clients rolling out significant numbers of devices onto assets and new as well as existing partners using the Nexxiot Connect Cloud to integrate and digitalize their operations. The Nexxiot technology ecosystem is becoming richer and more capable of providing the services that meet clients’ needs. The current focus is on bringing new data driven products and services online, scaling the teams and continuing to invest in R&D across hardware, software, and analytics to deliver unique new value to clients, their partners and service providers.

What are the major trends and developments affecting your category and your customers, and how are you responding?
The past few years have highlighted the need for greater transparency and accountability in the cold chain and across sensitive supply chains in general. There is rising insecurity around the movement of valuable and vulnerable goods due to recent events like the pandemic, tensions in the EU and trade with the East. Better, more affordable, and easier to use technology is now in high demand.

Our clients need to demonstrate their commitment to quality, reduce waste, improve their sustainability performance, and create trust in their markets. We support them by creating the visibility they need which comes directly from the asset and the cargo itself. This prime data is reliable and of sufficient quality to create the levels of trust they and their clients need. With innovations such as the KYC (Know Your Cargo) capability, which Nexxiot is currently developing, clients can demonstrate their compliance to trade regulations and quality standards more comprehensively than previously possible.

Could you please share your views on Temperature Controlled Logistics Sector for our readers?
Temperature controlled Logistics is essential for achieving anything from public health goals, maintaining a reliable nutrition around the world and realizing economic growth. Making sure that the cargo arrives within the expected temperatures and conditions for that specific type of produce/goods is vital to fight spoilage and waste. The lack of cold storage and refrigerated transport in the medical sector alone contributes to 1.5 million vaccine-preventable deaths among children, every year.
June 23, 2022 | Americold Realty Trust, the prominent company in temperature-controlled warehouses and logistics for the food industry, announced the grand opening of its newest facility in Dunkirk, NY. With 181,000 square feet of cold storage and operational space, this LEED-certified facility features 25,000 pallet positions, to support cold storage needs in the western New York region. “This is our first facility in western New York, and we’re excited to expand in this area at the request of our customers,” said George Chappelle, Chief Executive Officer at Americold. “Our goal is to provide the best-in-class service to all of our customers and this facility will help us to do that in New York.” The new facility, which is holding grand opening ceremonies, is located on Williams Street, near Arrowhead Drive in Dunkirk, and is the most recent addition to the company’s portfolio of 250 locations around the globe. This facility will employ more than 60 full and part-time associates.

As part of Americold’s commitment to give back to the local communities it serves, Americold and Feed the Children will distribute 25-pound boxes of food and 15-pound boxes of essentials items to more than 300 Dunkirk families, immediately following the grand opening ceremony.

Americold has been a partner of Feed the Children for more than five years. During its partnership, Americold has donated critical funds, and travelled hundreds of thousands of miles providing complimentary temperature-controlled transportation services of chilled and frozen goods that have helped feed hundreds of thousands of families across America.

International Solar Alliance opens global bids for solar cold storage in Africa

June 30, 2022 | The International Solar Alliance is overseeing bids from prospective contractors to supply, install and commission solar cold storage capacity in Senegal, Sudan and Seychelles. Bidding is also open for two 2 MT systems in Djibouti. India's NTPC, on behalf of the ISA, has started accepting bids from ISA member countries to execute solar-based cold storage projects in the African countries of Senegal, Djibouti, Sudan, and Seychelles.

The prospective contractor will supply, install and commission 5 metric tons (MT) of solar cold storage capacity in Senegal, as well as 5 MT in Sudan and 5 MT in Seychelles. The ISA and NTPC are also planning two 2 MT systems in Djibouti. The ISA has engaged NTPC as an implementation partner and project management consultant, as it plans to deploy solar demonstration projects in member countries. ISA will finance the projects.
New Cardiff Business School study helps build tomorrow’s intelligent cold chain supply for Tower

A new study from Cardiff Business School, commissioned by pharmaceutical transportation specialist Tower Cold Chain, is set to focus on maximising the proximity and availability of Tower’s reusable temperature-controlled containers around the world, while minimising unnecessary journeys. By analysing Tower’s real-life historical shipment data, Cardiff Business School will develop a model to optimise global stock location strategies. As well as minimising CO2 emissions caused by superfluous movement, the use of intelligent stock management through Optimisation and Simulation techniques will ensure maximum availability of Tower’s containers to its customers.

Tower Cold Chain is committed to supporting the global transportation of critical pharmaceutical materials using its system of robust, reliable and reusable containers. While the reusable model is a more sustainable solution than single-use containers, the complex logistics involved mean that the new study provides an invaluable resource for system optimisation. “We have a growing network of hubs located at airports around the world, to ensure customers can source the appropriate cold chain container locally,” said Kevin Doran, Global Head of Supply Chain at Tower Cold Chain. “Global demand can be difficult to forecast. Complexity of multiple stakeholders and exacting product needs creates challenges to have the right stock in the right place at the right time. Ensuring availability can lead to wasted resources so it is a process of balancing overproduction of containers with excessive movement between deployments. “Clearly, the more synergies that can be identified, the fewer wasted movements there will be – and that’s what Cardiff Business School’s study of our data will help to deliver,” he added. Cardiff Business School is the world’s first Public Value Business School, with a clear mission of making a positive impact regionally and globally. Amongst its work, the School’s international faculty of scholars works closely with different organisations to conduct research on contemporary challenges in logistics and supply chains.

The study will harness the School’s world-wide reputation in supply network modelling and design, and exploit multi-objective optimisation techniques developed at Cardiff to determine hub locations and allocate cargo. Working together, Tower and Cardiff Business School will analyse this unique process challenge and identify data derived strategies to address wasted motion in the industry and provide sustainable growth strategies to meet a growing global demand for cold chain distribution solutions.
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The cold chain is a temperature-controlled supply chain and includes all of the means and measures used to maintain a constant temperature for monitoring temperature-sensitive products.

The Indian Cold Chain Industry is estimated to grow with a CAGR of between 13% and 15% to reach USD 6.8 Billion by 2022. Apart from these numbers India is currently the world’s largest producer of milk, the second-largest producer of fruits and vegetables, and has a good amount of production of seafood, meat, and poultry products. In spite of having a large number of agricultural produce, India is still one of the leading countries in terms of food loss and a sizable share of the population suffers from hunger and malnutrition.

The recently released India Cooling Action Plan (ICAP) emphasizes the cold chain infrastructure and discusses the gaps and opportunities. The action plan reports that India has a large inventory of cold storage or refrigerated warehouses, but on the other hand, the remaining elements of cold chain infrastructure—pack houses, reefer transport, and ripening chambers—are largely missing. Reefer transportation is under severe shortage in India, with about 9000 vehicles in place of the required
number of approximately 62,000.
As dependence on refrigerated trucking grows, it becomes imperative to achieve real-time visibility and controllability of all products during transportation. The upcoming trends that need to be fully embraced by Indian companies are mentioned below. Let’s have a look at them individually.

**RFID:** RFID is a technology that uses radio waves to identify items and gather data on items without human intervention or data entry. RFID sensors/labels can be equipped with additional sensors like temperature, humidity, and gas to map its history across the supply chain. As compared to traditional temperature data loggers, RFID temperature tags are as accurate and also offer superior performance because of quick data recovery and live access at any point of the supply chain. This helps in an efficient inspection and decision-making process for better inventory management and fewer batch rejections.

**Wireless sensor networks (WSN) and Internet of Things (IoT):** WSN is a combination of sensors, microcontrollers, and RF handsets. These components communicate with each other at a local location. A wide range of WSN is connected through the Internet to act as sensory organs for IoT. IoT refers to the network which connects various objects via the internet to transmit information for the purpose of object locating, racking, monitoring, and management, with support of RFID tags, sensors, actuators, and other control systems. IoT is an ideal platform for remotely monitoring and controlling the real-time status of perishable goods across the cold chain to enable the First expiry first-out (FEFO) system.

**Time-temperature indicators (TTI):** TTI’s are simple and inexpensive devices, which indicate the time-temperature history of the products they are applied on. These indicators can be configured on user portals, devices and vehicles as per your requirements. TTI’s can be specially modulated to indicate and correlate a specific food product safety and quality status at any point in the supply chain, thus providing an effective decision tool.

In adopting the latest monitoring, control mechanisms, and automation in data capturing, the Indian cold chain sector has a long way to go. The key to such transformation is to localize the technologies to suit the scale of Indian industries and by creating flexibility in the system to accommodate and modify the elements of complex supply chains.
June 2022 | Arlington, Virginia US: The Association of Refrigerated Warehouses and International Refrigerated Transportation Association are to merge and form the Global Cold Chain Alliance. The Global Cold Chain Alliance currently serves as an umbrella to unite partners in the temperature-controlled products industry. It comprises of its core partners, including the International Association of Refrigerated Warehouses, the World Food Logistics Organization, the International Refrigerated Transportation Association, and the Controlled Environment Building Association. In future, the IARW and IRTA will operate as the Global Cold Chain Alliance with Warehouse and Transportation membership categories. WFLO and CEBA will continue to be partners of the Global Cold Chain Alliance operating as separate entities. “Success of the global supply chain depends on transportation and warehousing working closely together. The merger of IARW and IRTA recognizes that important connection and will help strengthen the global supply chain at this critical time,” said IARW immediate past chairman, Ron Buford, who was chairman when the agreement was finalised.

Brugine, 22 April 2022 – CAREL Industries S.p.A. announces that it has acquired a further 30% of the share capital of Arion S.r.l., the joint venture based in Bolgare (Bergamo Province - Italy), established in 2015 between CAREL and Bridgeport S.p.A. with the aim of developing sensor technology expressly dedicated to the air conditioning and refrigeration sectors. Bridgeport’s sale of this stake to CAREL brings the Group’s total shareholding to 70%, while the remaining 30% is held by Bridgeport. The transaction is consistent with the Group’s long-term strategy since the use of increasingly advanced sensors will make the equipment more efficient, more reliable and more connected with the eco-system in which they are inserted, also facilitating the activation of digital services. It will also allow for greater integration between Arion and CAREL, with an improved focus on those applications that are showing significant growth trends, while at the same time allowing for greater investments in terms of personnel and know-how. Finally, the possibility of having an increasingly modern and competitive range of sensors in its wide portfolio of solutions and products guarantees CAREL a role as a single operator in terms of completeness in the air conditioning and refrigeration sectors. In 2021 Arion had revenues of €2.7 million, EBITDA of approximately €500,000 and net cash of approximately €350,000. The consideration for the acquisition of 30% of the share capital of the above-mentioned company was approximately €1.2 million.
Event Calendar

Food Logistics India
14-16 September, 2022
Bombay Exhibition Center,
Mumbai, India

India Warehousing Show
19-21 August, 2022
Pragati Maidan,
New Delhi, India

Chillventa
11-13 October, 2022
Nuremberg

AHR Expo
6-8 Feb., 2023
Atlanta

Cold Chain Poland
18-20 April 2023
Warsaw

Indonesia Cold Chain Expo
11-14 May 2023
JIEXPO Kemayoran
Jakarta, Indonesia

ICCE Asia 2022
1-4 November 2022
China

Asia Cold Chain Show
25-27 July, 2022
BITEC, Bangkok

Asia Warehousing Show
25-27 July, 2022
BITEC, Bangkok

India Warehousing & Logistics Show
1-3 December, 2022
Bombay Exhibition Centre,
Mumbai, India

Smart Cold Chain Expo
1-3 December, 2022
HITEX Exhibition Centre
Hyderabad, Telangana
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