

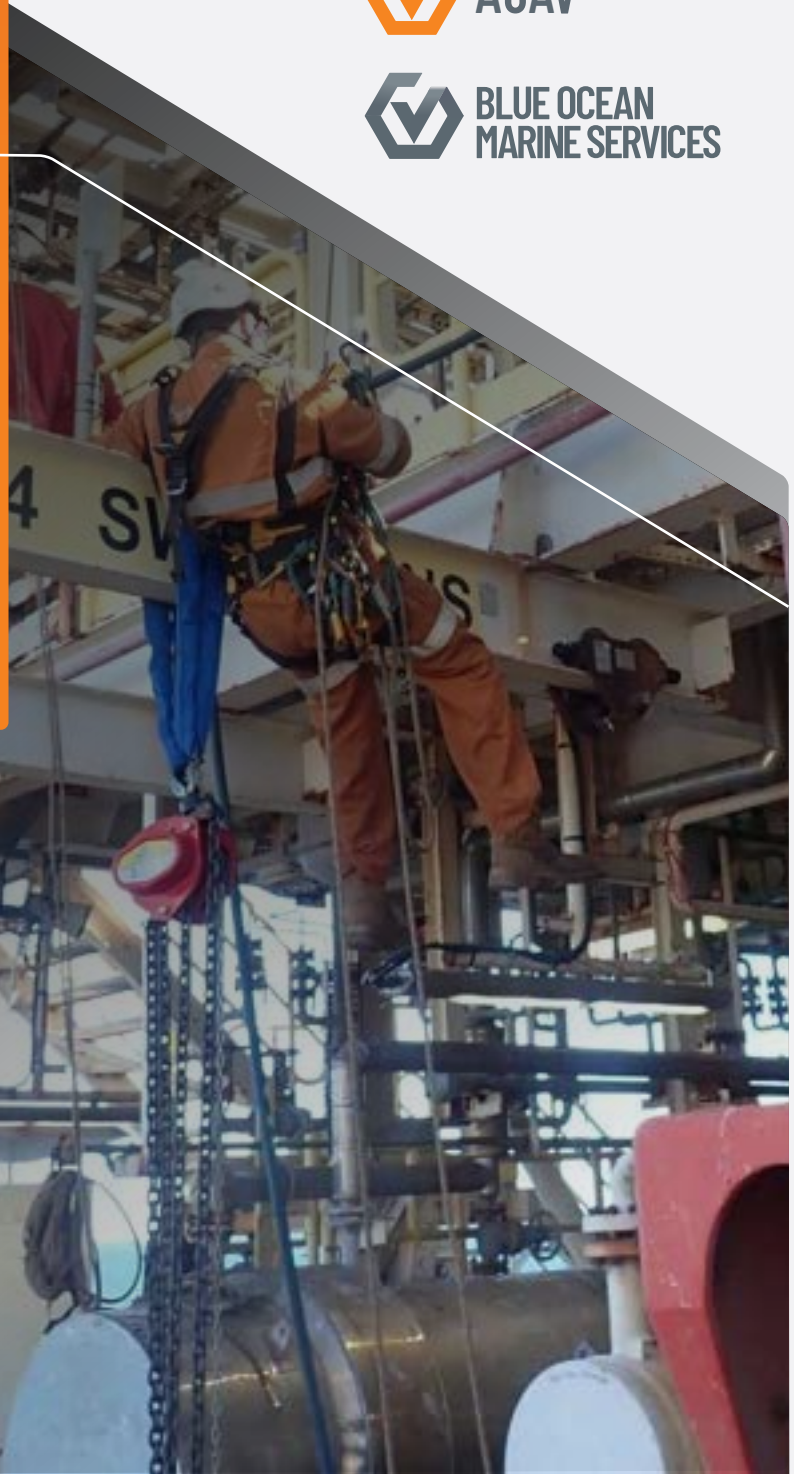


CAPABILITY STATEMENT

UPSTREAM DRILLING

THE PURPOSE

This document will assist our clients and the supply chain in understanding our group operating structure and a high-level understanding of the benefits, services, and specialist packages associated with our upstream drilling specialisation.



COMBINED SERVICES

Vertech Group is a leading provider of marine infrastructure services in Australia. We assist in the development and maintenance of export jetties and wharves nationwide. Our services include project management, NDT, drone inspections, 3D modelling, and specialist maintenance. We also offer services for import terminals, including NDT, inspection, and environmental surveys. Our commitment to enhancing Australia's marine infrastructure contributes significantly to its economic stability and growth.

Our group is comprised of complementary and specialist service providers assisting us in innovation and project delivery across the marine infrastructure landscape. Geo Oceans is an industry leader in Mini-ROV IRM and subsea inspection services. Sonomatic

is recognised as a global leader in specialised NDT. AUAV delivers specialist UAVs, Drone and 3D Modelling, and Blue Ocean Marine Services are experts in deploying AUVs and ASVs.

As a cohesive unit, we can provide an unparalleled array of services and packages tailored to the needs of each client and the specific marine asset. No matter the scope, we offer the best, including a pedigree in specialist access solutions, NDT and inspection, high mobility fabric maintenance, composite wraps, geophysical, met ocean and environmental surveys, AUV, ASV, ROV survey and inspection.



UPSTREAM DRILLING

Vertech has a wealth of experience supporting the upstream drilling market, having serviced most offshore drill rigs in the Asia Pacific for over a decade. We completely understand the specific challenges and drivers faced, and as such, have tailored our approach to ensure minimal impact on drilling operations while providing a safe, high-performing and cost-effective service that complies with the statutory requirements.

A drilling campaign and its contractors require speed, efficiency and high quality. Vertech prides itself on its ability to meet these needs by utilising a workforce strategically located across the globe, an experienced project management team and innovative technology. These elements combined guarantee our clients achieve a best-in-class outcome.

ASSET OPERATING EXPERIENCE



GROUP ACCREDITATIONS

- ISO 9001:2015
- ISO 14001:2015
- ISO 29001:2010
- ISO 45001:2018
- ABS Approved Supplier for UAV
- ABS Remote Inspection Techniques (ROV)
- BV Remote Inspection Techniques
- Vertech IRATA Operator
- LR Thickness Measurements of Hull Structure
- NATA Lifting and Lifted Inspection
- NATA Pressure Vessel Inspection
- NATA NDT Inspection
- CASA UAV Accreditation

**HIGH QUALITY WORK.
FIRST TIME, EVERYTIME.**



Geo Oceans has supported mining & minerals clients to obtain environmental approvals and construct, develop and maintain jetties, wharves, channels, harbours and renewables infrastructure throughout Australia and internationally for over a decade. Our experience includes designing and implementing survey and monitoring programs for benthic marine habitats and engineering inspections, surveys and intervention tasks for pipelines, jetties, wharves and marine infrastructure.

We develop and deploy industry-leading and award-winning remote technologies, including:

GO Visions™ benthic habitat mapping and monitoring software and towed underwater camera and Mini ROV hardware used for environmental approvals and compliance monitoring around jetties, harbours, shore crossing pipelines and inshore marine environments;
Mini-ROV CSS - ROV technologies we deploy from wharves or vessels for engineering inspections, subsea cleaning, NDT, and light intervention work around the jetty and wharf infrastructure.

We have a strong team of Marine Science, Subsea Inspection and engineering professionals dedicated to deploying remote subsea survey and inspection technologies to add value to our client projects.



Sonomatic is a worldwide organisation whose expertise in ultrasonic inspection design, development and application dates back more than Thirty years to our roots in the nuclear sector. Today, the company has widened its focus. It provides proven yet pioneering services to customers in defence and power generation. However, our most extensive client base is in the challenging oil and gas industry, both upstream and downstream.

Sonomatic's capabilities for developing software, systems and scanners, often for bespoke applications, coupled with the expertise of our engineers, means we are among the leaders within this highly specialised field.

Sonomatic pioneered the industrial application of a range of widely used inspection methods, e.g. Time of Flight Diffraction (TOFD), and continues with active development of innovative inspection and deployment methods that are applied by our team of experienced field service engineers.

Sonomatic also provides Integrity Services, supporting our clients with planning and evaluating inspections and using advanced statistical methods to maximise the value of data obtained. Integration of our integrity and inspection services for non-intrusive inspection (NII) benefits the client by allowing vessels and equipment suitable for NII to be identified. It reduces the need for costly plant shutdowns to assess the internal condition.



Established in 2013, AUAV has revolutionised Australia's drone inspection, survey, and mapping services. Our distinctive approach includes a dedicated full-time staff, ensuring uncompromised safety, technical expertise, and ISO-certified excellence. With end-to-end data control and specialised inSite™ software, we optimise data collection and insights across diverse industries.

AUAV's expertise extends to coastal environments, where we excel in assessing and managing coastal assets. From erosion monitoring to coastal infrastructure assessment, our drone technology offers tailored solutions to unique coastal challenges. Our recent integration with the Vertech Group further enhances our capabilities, combining complementary skills and expanding our service offerings to include underwater inspection, NDT, and rope access.

Driven by innovation and professionalism, AUAV continues to set industry standards. Our commitment to delivering exceptional results, coupled with our comprehensive coastal component and expanded capabilities through Vertech Group, solidifies AUAV's position as a drone inspection, survey, and mapping services leader.



Blue Ocean Marine Services (BOMS) is a Joint Venture between Blue Ocean Marine Tech Systems and the Vertech Group. With a strong management team and a clear vision, the company is committed to driving positive change across the offshore industry by collaborating with clients and partners to increase efficiencies and lower costs. Combining unconventional thinking and decades of experience, they provide highly effective offshore survey solutions using leading-edge autonomous (unmanned) survey platforms and sensors.

The company's approach is agility and innovation, promptly developing and responding to clients' specific technology needs and project requirements. This approach has seen the company quickly gain the attention of significant clients across various sectors and forge new ways to provide fit-for-purpose, cost-effective data acquisition solutions.

UPSTREAM DRILLING SERVICES

LIFTING INTEGRITY, TESTING & MANAGEMENT

Our multi-disciplined teams can provide inspections, repairs and maintenance services to offshore lifting equipment across the Asia Pacific drilling fleet. Inspections are conducted to API RP 2D, manufacturer recommendations and class requirements, ensuring crane structures, hoisting and lifting equipment inspection, and ancillaries are safe, reliable and compliant with statutory requirements. We can also work with clients to implement a framework of processes to manage the administrative burden and gaps usually encountered in effectively managing lifting gear.

CLASS & SPECIAL SURVEY

Vertech's Marine Department comprises a dedicated team of office and site-based professionals who specialise in the statutory inspections for the classification of mobile offshore drilling units (MODU). We can provide a best-in-class delivery of Special Periodic Surveys (SPS) or Hull Preservation Surveys (HPS).

PRESSURE PIPEWORK

Vertech provides a comprehensive in-service inspection of drilling asset pressure systems. We actively reduce risk and cost to keep people safe, meet statutory and legislative requirements and ensure uninterrupted drilling operations.

NON-DESTRUCTIVE TESTING

Non-Destructive Testing (NDT) involves detecting and assessing material flaws without causing damage. Vertech has a wealth of NDT experience in the drilling market and can provide recommendations and solutions to ensure compliance with international standards.

DROPS PROGRAMMES

Dropped Objects Prevention Schemes (DROPS) assist clients in identifying dropped object risks; conduct corrective actions such as reliable securing, removing or remediating the potential risk; and provide detailed risk or zone-based categorisations for future inspections.

MAINTENANCE

INSPECTION



MECHANICAL & FITTING

Underpinned by our range of access services, we provide our drilling customers with multi-disciplinary mechanical teams to complete high mobility maintenance, upgrade, repair, or remediation services.

PAINTING & BLASTING

Our team is on hand to keep the rig looking the part during ongoing drilling campaigns and ensure the structure's longevity. We provide a high-mobility painting and blasting service using single-coat marine coating systems, insulation repairs and a range of composite wrap services.

DERRICK SURVEYS

Our Derrick surveys are completed to Category I to Category IV requirements by API RP 4G. Our multi-disciplined teams take a "find & fix" approach while conducting these surveys to reduce risk to the drill crew and minimise future corrective actions within our reports.

HAZARDOUS AREA INSPECTION

We can provide end-to-end project solutions, including engineering design and technical support, product sourcing and procurement, installation and repair, and personnel contracting services. Our upstream drilling customers usually draw upon services including Ex hazardous area inspections, testing, compliance, installations and general electrical maintenance.

WELDING & BOILER MAKING

The Vertech team utilises the latest welding and boiler-making techniques to repair and maintain our client's boilers, pressure vessels and other storage assets.

ACCESS MANAGEMENT

Vertech was a pioneer of rope access in Australia. We imported the first decking systems to the Asia Pacific region and designed and installed Australia's first offshore safety netting and tension netting systems. Our highly experienced team has installed scaffolding and custom access platforms nationwide on oil and gas sites.

SPECIALIST PACKAGES



V-DROPS (DROPPED OBJECTS PACKAGE)

A detailed and comprehensive dropped object inspection, management and prevention package, including identification, recommendations and reliable securing and ongoing management. Effective DROPS management is critical to ensuring the drill crew's and facility's safety.



EYE-FLY (ACCREDITED UAV PACKAGE)

As the first company in the Asia Pacific to achieve both the ABS & LR accreditation for unmanned aerial Vehicle (UAV) inspections, we can offer a comprehensive array of visual inspections, be it on a crane, Derrick structure or jack-up leg inspection to remove working at height, conduct period inspections of potential DROPS or as part of a complete Class Survey or part of a Special Periodic Survey.



V-LIM (LGI MANAGEMENT PACKAGE)

Vertech provides a world-leading lifting equipment and drill handling tool inspection and management package. We combine high quality, multi-disciplined inspectors, a custom-built inspection and integrity management system (Viiper), and the latest inspection and access systems with an experienced and customer-focused projects team to ensure our drilling customers have a responsive end-to-end service to save cost, increase efficiency and drive safety excellence.



MODUWILD - SPECIAL SURVEY PACKAGE

Our multi-disciplined and high mobility IRATA Accredited inspectors are some of the most experienced in the Asia Pacific at conducting inspections of marine structures as part of class and special survey requirements. Our package includes accreditation for NATA for NDT, ABS, and DNV. Lloyds register for class as ABS and LR for Unmanned Aerial Vehicle (UAV) and Remotely Operated Vehicles (ROV).





WATER BALLAST AND CARGO OIL TANK INSPECTIONS

Utilising advanced ROV inspection technologies, GVI, CVI, UTM and other NDT methods, we conduct tank inspections to meet the specific Class requirements of each asset.

Our tank inspections are performed without emptying the tank of fluid, thereby reducing facility downtime while avoiding costly and dangerous Confined Space Entry (CSE) procedures.

HULL & MOORING UWILD / IN-WATER SURVEYS

We deploy our ROVs directly from the facility, eliminating the need for costly carbon-emitting support vessels.

Periodic or special surveys are tailored to the individual assets, considering the client's age and condition, class requirements and engineering needs.

Cleaning General and Close Visual Inspections are performed and supported with cleaning, CP, UTMs, penetration isolations, sea chest blanking, angle measurements, chain gauging and other NDT inspections as required.

Remote live data feeds can be supplied to support remote inspection and class attendance.

JACKETS, RISERS, SUBSEA FIELD INSPECTION

We have extensive experience performing ROV inspections of jackets, caissons, risers, mooring systems and subsea infrastructure, including pipelines, spools, wellheads and anode skids. We can deploy directly from platforms or vessels of opportunity.

Inspections and ROV interventions include anything from GVI/CVI, freespan, CP, UTM, FMD, marine growth assessment and spot cleaning to bulk cleaning, dredging, advanced NDT inspections (e.g. corrosion mapping, crack detection) and subsea repairs.



SUBSEA ADVANCED NDT INSPECTION

Working in collaboration with Sonomatic, Geo Oceans has extensive experience in the development and ROV deployment of miniaturised subsea advanced NDT inspection tools to create high-accuracy corrosion maps of sections of pipelines, spools, hulls, infrastructure or to survey critical welds.

METROLOGY AND PHOTOGRAMMETRY

Our Mini-ROV inspection systems include imaging technologies for accurate size and area measurements. A camera array (stereo or mono) acquires high-definition video and images that can be processed for scaled measurements and 3D modelling.

The 3D models can calculate size and area measurements for localised corrosion mapping purposes or quantitative assessment of the remaining anode percentages. These 3D models can also be compared against the 'as built' (baseline) model of the anodes to create a 'deviation' model that displays the level of material loss.

MARINE HABITAT SURVEYS USING GO VISIONS™

Geo Oceans has an award-winning benthic habitat mapping and monitoring capability utilising the GO Visions™ software to support regulatory environmental approvals for new construction projects (wharves, jetties, pipelines, offshore wind farms) or for decommissioning projects (pipelines, subsea cables, wells, jackets, nearshore infrastructure).



SUBSEA INSPECTION

Sonomatic Subsea is a leading provider of advanced subsea inspection technologies, including ROV and diver-deployed robotic systems. With 30+ years of experience, we design, develop, and build our inspection systems and scanners to meet specific client requirements.

Our unique and innovative inspection solutions enable clients to manage the integrity of aging assets while making informed and cost-effective decisions crucial to plant safety and longevity. We have a proven track record of safely delivering subsea inspection services for over three decades.

PIPELINE INSPECTION

Sonomatic specialises in pipeline inspections to deliver high-quality data. We offer topside and subsea services to ensure pipeline integrity. We provide innovative statistical analysis methods to help operators make informed decisions regarding pipeline inspection and integrity assessments.

Sonomatic’s advanced subsea pipeline inspection services utilise cutting-edge technology to effectively detect potential issues, collect precise data, and assess pipeline conditions to ensure the integrity and reliability of underwater energy infrastructure. This reduces downtime, maintenance costs, and enhances safety and environmental protection.

BESPOKE INSPECTION SOLUTIONS

Sonomatic is a relationship-driven company that constantly provides its clients with the best possible service using the most specialised technology. We always offer a bespoke solution to individual projects by selecting the most appropriate products and techniques from our wide range of equipment and software.

This can range from the total planning-to-reporting package offered by our Integrity Support Services division to one-off inspection reports by specialist engineers using the most sophisticated and advanced flaw detection methodologies.



NON-INTRUSIVE INSPECTION

Sonomatic is a pioneer in Non-Intrusive Inspection (NII) with global implementation. Our experienced team combines advanced data science and cutting-edge engineering capabilities to offer complete NII campaign services worldwide. We are committed to providing quality solutions that meet the highest safety and efficiency standards while ensuring an auditable trail for each department. NII is becoming an alternative approach to traditional Internal Visual Inspection (IVI) for pressure vessels, with some organizations aiming to eliminate vessel entry by 2026.

TANK CLEANING & INSPECTION

Storage tanks typically contain large volumes of valuable but potentially hazardous fluids. As such, inspection is a critical element of the integrity management of storage tanks. The objective of the inspection is to provide information on the tank’s condition. This information should be used to support effective integrity management decisions. Historically, storage tank inspection has relied on entry with the tank out of service. Opening storage tanks for internal inspection is a lengthy and challenging process.

The tank will be unavailable during the internal inspection and must be drained and cleaned before entry is possible. There are also safety hazards associated with personnel entry for inspection. Remote Internal Inspection (RII) methods offer an attractive alternative as they can be conducted whilst the tank is in-service and do not require vessel entry. Sonomatic’s technicians are experienced in using various inspection techniques on numerous assets in many environments.

INTEGRITY ENGINEERING

Sonomatic’s Integrity Services Department provides engineering and operational support to clients, combining experience in the field with specialised engineering, planning, execution, data analytics, statistical methods, and custom software development. We specialise in advanced, non-intrusive inspections and provide objective analysis through effective planning. Sonomatic’s practical statistical methods for inspection planning through simulation position us to support the integrity management sector’s transition to increased data-driven decision-making.



AERIAL SURVEY & MAPPING

AUAV offers top-tier aerial surveying and mapping services using state-of-the-art drones and skilled surveyors. We aim to provide the highest quality results with centimetre-level accuracy, enabling our clients to make agile decisions. Our maps and survey data have a 1-3cm resolution per pixel, and our 3D terrain models are accurate to approximately 50mm horizontally and 50-80mm vertically.

3D DIGITAL TWINS (InSite)

AUAV's InSite software is a cloud-based drone data presentation and asset inspection platform. Its features include 3D site capture, integration with other systems, customisable options, and versatile data display capabilities. The software is geared towards clear data capture, essential for in-depth analysis and informed decision-making in drone operations and data processing services.

DETAILED CLOSE VISUAL INSPECTION

Drones are crucial for detailed, safe, and efficient visual inspections in infrastructure maintenance, construction, and energy. With high-resolution cameras and advanced stabilisation technologies, drones can inspect structures like bridges, wind turbines, and high-rise buildings, reducing the need for human inspectors in dangerous or hard-to-reach areas. The agility of drones captures a wide range of angles and perspectives, providing comprehensive visual data that speeds up the inspection process, increases accuracy, and improves maintenance decisions. Using drones exemplifies the integration of technology in modernising and optimising industrial and maintenance practices, making them safer, more efficient, and cost-effective.



LIDAR

Drone-based LiDAR is an aerial surveying technique for generating point cloud data for topographical surveys. AUAV has extensive experience in collecting, processing and delivering LiDAR data for mining, engineering power sector and environmental clients. With hundreds of points per square meter, the data is beneficial for surveying areas with vegetation, analysing power line infrastructure and landslip analysis.

THERMAL

Aerial thermography provides an efficient method for capturing temperature anomaly data over large areas. Typical uses include the identification of underground fires, solar farm defects, gas leaks and potential water ingress behind concrete structures. The most widespread use of drone-based thermal capture is on grid-scale solar assets, where data on up to 700,000 panels can be captured in a week.

AERIAL PHOTOGRAMMETRY

Photogrammetry is the term used for creating very accurate 3D data from photographs. This is a speciality of AUAV, where our team routinely captures and processes models with 100,000 high-resolution images to create digital twins of assets. These digital twins have resolutions between 1cm and 1mm, enabling the engineering inspection of assets, tendering for remediation or demolition, facilitating design works or various virtual reality applications. AUAV have developed a bespoke online platform, inSite,



SITE INVESTIGATION

We deliver comprehensive site investigation and appraisal services, including detailed surveys and advanced monitoring systems. We specialize in habitat mapping and use autonomous underwater vehicles (AUVs) equipped with the latest sensors and imaging technology to conduct thorough surveys, even in inaccessible marine environments. Our commitment to providing accurate, actionable data for marine projects sets us apart.

SUBSEA POSITIONING

We utilise advanced Ultra Short Baseline (USBL) systems to accurately control and manage AUV surveys. These systems determine the position of dynamic subsea targets by transmitting and receiving acoustic signals between a submerged transceiver and a target beacon. Our services extend beyond supporting our AUV activities and provide precise navigational and positional support for various other applications, including ROV inspection, sediment and water sampling, drop-camera surveys, towed instrumentation surveys, and search and recovery exercises.

METOCEAN SURVEYS

Blue Ocean Marine Services offers a comprehensive metocean service for offshore projects. Our specialised monitoring services cater to shallow and deep marine environments, evaluating directional waves, currents, water quality, and more. We provide water level monitoring, advanced weather forecasting, sediment sampling, and real-time monitoring systems, ensuring up-to-date data for immediate decision-making. Our services also include visual surveys and hydrographic surveys to map underwater topography. All our services are tailored to deliver detailed and reliable metocean data for our clients' offshore projects.



REGULATORY COMPLIANCE

Increased marine activity and environmental accountability have increased the demand for ocean monitoring programs. Ocean robotic platforms have proven highly effective in enhancing ocean survey techniques. Blue Ocean Marine Services has executed numerous data acquisition campaigns to ensure offshore compliance. Our services include PFW discharge monitoring, dredging and spoil disposal monitoring, PAM, UXO surveys, water and sediment testing, scour monitoring, real-time monitoring, and data harvesting.

SUBSEA INSPECTION

Blue Ocean Marine Service offers cost-effective and efficient subsea inspection surveys using Autonomous Underwater Vehicles (AUV) and Remotely Operated Vehicles (ROV). These portable technologies require only a small specialist team and can be mobilised quickly. Our successful pipeline inspections demonstrate that these vehicles can deliver exceptional survey results while reducing project costs, schedules, logistical efforts, and risks. Our subsea inspection services include pipeline inspection, infrastructure position surveys, cable route surveys, leak detection surveys, general visual inspections (GVI), and scour monitoring.

EMERGENCY RESPONSE

Blue Ocean Marine Services provides efficient emergency response services for environmental and infrastructural crises. Our expert technicians are trained for rapid deployment, while our AUV fleet enables quick mobilisation. Our services include oil spill response, infrastructure surveys, and pollution monitoring. We also provide scour monitoring and water and sediment testing for thorough environmental assessment. Our emergency response offers comprehensive solutions for safeguarding the environment and marine infrastructure.

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