Nasdaq BWise

PROTECT COMPLY SIMPLIFY

INFORMATION SECURITY IN CONTROL WITH STATE-OF-THE-ART GOVERNANCE, RISK MANAGEMENT, AND COMPLIANCE SOFTWARE

BWise® Information Security

Analyst Recognition

FORRESTER®

Independent research firm Forrester has positioned Nasdaq BWise as a "Leader" in GRC Platforms in their report, "The Forrester Wave™: Governance, Risk and Compliance Platforms*, Q1 2016."
The report presents a detailed view and assessment of the most significant GRC software vendors. Forrester Research scored fourteen different GRC technology vendors on thirty distinct criteria, which they subdivided into three categories: Current offering, Strategy, and Market presence.

The Forrester Wave™ report states: "Nasdaq BWise offers a solid platform with strong capabilities in analytics. […] BWise has capabilities that include audit, risk, compliance and policy management as well as sustainability management and information security. "

The Forrester Wave™: Governance, Risk and Compliance Platforms, Q1 2016.

Gartner

Gartner positioned Nasdaq BWise in the Leaders Quadrant of the Gartner Q4 2015 Magic Quadrant for Operational Risk Management for its Governance, Risk Management and Compliance (GRC) software.

The annual report evaluates the offerings of thirteen leading vendors in this space from around the globe. The companies were analyzed according to their 'completeness of vision' and 'ability to execute'. We see our positioning in the report on the 'ability to execute' axe, as a testimonial of our customers appreciation.
The Gartner Magic Quadrant report states: "GRC software solutions have matured and remain a top business priority for senior executives as we enter the new age of digital business."

Gartner, Magic Quadrant for Operational Risk Management Solutions, John A. Wheeler, December 14, 2015.

Support for the End-to-End Information Security Management Process

BWise® Information Security (BWise® InfoSec) is a software solution that supports the end-to-end information security management process and is part of the BWise integrated enterprise Governance, Risk Management, and Compliance (GRC) Platform. Information Security Management has come to play an extremely important role in today's businesses, due to the increased frequency and potential impacts of information security breaches. BWise InfoSec is a solution that can easily be used by any information security professional.

This brochure describes the BWise InfoSec functionalities based on a day-in-the-life of Damian Thomson, Chief Information Security Officer.
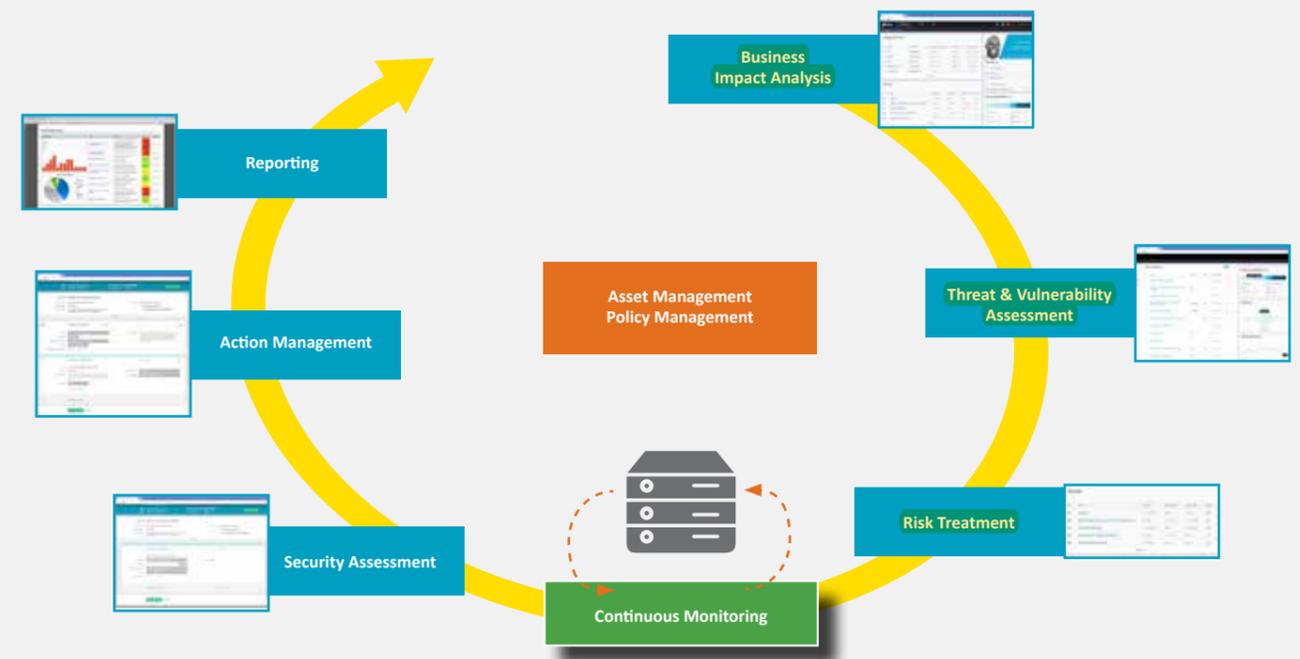
The Information Security Management Process

The end-to-end information security process made easy
BWise InfoSec helps organizations to establish, implement, maintain and continually improve their Information Security Management Systems (ISMS). Standards such as ISO27001, NIST, UCF, COBIT, PCI DSS and ISF are used as references. BWise InfoSec brings these standards together into one solution with one process and one library to easily manage the ISMS . By doing so, information security threats are immediately clear, priorities are swiftly set, and mitigating action can be taken in time, before the risk will actually materialize.

A Day In The Life of Damian Thomson, Chief Information Security Officer

BWise InfoSec helps Damian Thomson to make sure his company's assets meet the applicable security requirements for their stakeholders. BWise Info-Sec provides Damian with one overview of all the requirements relevant to his organization resulting from information security standards such as ISO 27001, PCI DSS, ISF and NIST. The solution supports the end-to-end information security process starting with the documentation of the ISMS. Capabilities include asset impact analysis, threat and vulnerability assessment, requirements evaluation and monitoring, issue remediation and reporting.

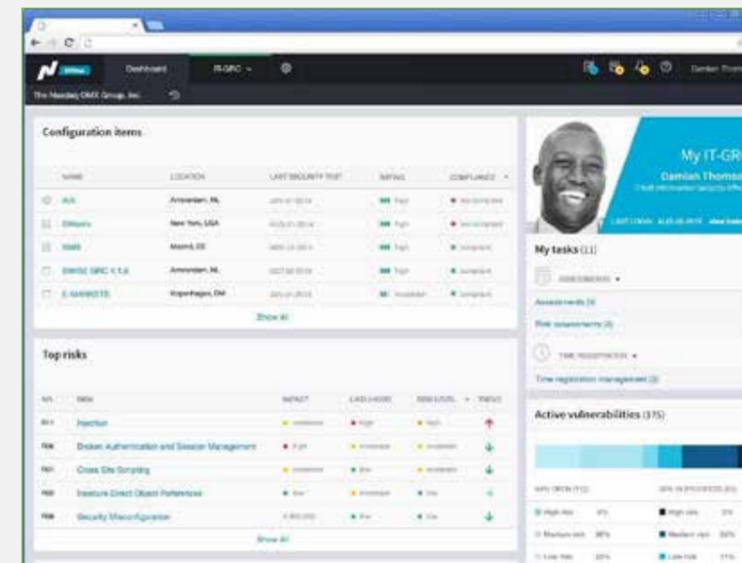### Documentation of the Information Security Management System

The first step of the information security management process is to document the company's assets along with other relevant information such as their respective owners, applicable risks, threats, vulnerabilities and controls in BWise. Utilizing the functionality capabilities of BWise InfoSec, Damian is able to integrate all assets derived from

> "With BWise InfoSec I can ensure that our important assets are meeting the information security regulations, industry standards and contractual obligations we are subject to. We are able to easily manage the constant stream of changes in the organization's IT environment."
>
> Damian Thomson, Chief Information Security Officer

external asset management databases into a single point of access, lowering TCO and minimizing the efforts of data maintenance. Another component of the ISMS is the information security policies. Thanks to powerful workflows, Damian is confident that policies are developed, approved, applied and reviewed consistently and according to the defined process. Finally, Damian documents all the stakeholders and departments that have an interest in the ISMS to ensure all who are involved are in the right step of the process and/or kept up-to-date as required.

Business Impact Analysis

The Business Impact Analysis (BIA) capabilities help determine the CIA rating (Confidentiality, Integrity, and Availability) for each of the organization's assets, allowing Damian to classify them and thus identify the critical ones. The CIA rating methodology is a model that can be configured in BWise to rate assets. This way, Damian can be sure that none of his team's valuable time is spent on irrelevant

assets. The results of the BIA are also used by the InfoSec solution to automatically select the set of policies and the controls applicable to each asset. If necessary, asset owners may decide to manually select additional requirements and controls.

Threat & Vulnerability Risk Assessment

How to make business sense of all threat & vulnerability information that is coming to Damian? BWise helps implementing a risk-based approach. To determine if the threats are likely to exploit vulnerabilities and therefore may compromise the confidentiality, integrity and/or availability of critical assets, Damian and the asset owners assess the impact and likelihood of information security risks and determine each asset's risk rating. BWise InfoSec provides the asset owners with relevant information such as BIA assessment results to help assess the assets. In the Advanced edition, the InfoSec solution integrates with vulnerability scanners, security incident and event monitoring tools, baseline analyzers, and IT incident ticketing(e.g. Qualys, Tripwire, Nessus, and ServiceNow) to provide input for threat and vulnerability assessment.

Risk Treatment

To mitigate the threats and remediate the vulnerabilities identified, asset owners are able to propose treatment plans that may include the enhancement of requirements or the implementation of new controls. If necessary, they can document waivers to justify non-compliance to one or more requirements. BWise InfoSec allows Damian to export a Statement of Applicability, as defined by ISO 27001 to obtain an overview of the proposed treatment plans and waivers for him to approve.

Security Assessment

After implementing the requirements and controls, Damian wants to be assured of the performance and effectiveness of his ISMS. BWise InfoSec allows him to gather input from the business by providing him with the results of the self-assessments filled in by the control owners. To submit the results of these assessments to his management and

external stakeholders such as regulators, Damian extracts a security assessment report directly from BWise.

Action Management

The strong workflow capabilities of BWise help Damian ensure that any non-conformity identified during security assessments will be followed up on appropriately with the implementation of an action plan or that a waiver will be documented to be able to justify the reasons for not complying.

Reporting

BWise InfoSec provides various reports to support internal and external communications to attest to the soundness and effectiveness of Damian's ISMS, such as the Statement of Applicability, as defined by ISO 27001. Providing comprehensive information security reporting becomes a single-click action, moving away from cumbersome data collection, verification and reporting pains.

Key Benefits of BWise Information Security

- Provide a comprehensive overview of the information security management system
- Efficiently identify an asset's applicable requirements and controls thanks to powerful BIA capabilities
- Facilitate the assessment of the ISMS's threats and vulnerabilities through the presentation of valuable context information such as BIA and other assessment results in the threat & vulnerability assessment interface
- Manage the implementation and follow up of treatment plans to mitigate risks
- Generate a Statement of Applicability, as defined by ISO 27001 and a security assessment report from the application
- Ensure appropriate follow up on any non-conformities with robust workflow capabilities
- A unique user interface that reduces complexity and streamlines the end-to-end InfoSec process easily
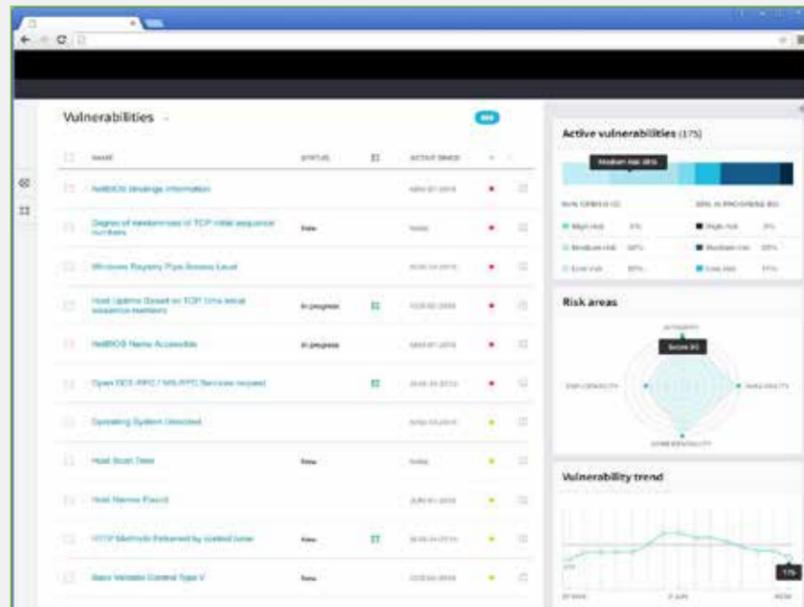
Vulnerability Management dashboard

BWise Academy

More advanced capabilities of BWise Information Security

The more advanced capabilities of BWise Information Security provide Damian and his team with the opportunity to automatically collect data from external systems to provide additional real-time insights into the threats and vulnerabilities that may compromise the integrity of their information security management system.

BWise InfoSec can integrate with vulnerability scanners, security incident and event monitoring tools, baseline analyzers, and IT incident ticketing tools (e.g. Qualys, Tripwire, Nessus, and ServiceNow) to capture the assets' weaknesses and incidents in the GRC platform. Damian and the asset managers can then use this data to more accurately assess the risks to which their ISMS is exposed to. The integration of the tool can lead to demand for continuous processing and monitoring of data. BWise InfoSec provides continuous monitoring with data analytics technologies that allows Damian and his team to take advantage of the great insights provided by data collection from multiple

systems and databases without having data analytics knowledge. Samples, exceptions, reports and other evidence are automatically retrieved, prepared and presented to them to be leveraged to evaluate the performance and effectiveness of the ISMS.

Key Benefits of automated collection of data from external systems with BWise Information Security

- Provide real-time and complete view on the vulnerabilities of the ISMS
- Reduce manual work by automatically generating evidence and collecting data
- Ensure shorter reaction times for remediation
- Use historic benchmarks to identify rapidly emerging risks

The BWise Academy provides learning solutions to explain the information security process and successfully implement the BWise solution in your organization. Through the Learning Center, customers have access to a broad offering of cost-effective and innovative learning experiences. Customers can choose from different formats including: eLearning courses, virtual classrooms, traditional class room courses, and tailor-made training programs.

New Information Security Management Colleagues

The BWise Academy can support Damian by training new team members on the company's information security methodologies. The web-based BWise Learn-

ing Center grants his new colleagues access to a broad offering of eLearning courses such as a Quick-Start with BWise, Understanding Your Business Control Framework and Information Security. Damian can even monitor the progress and results of the training via a web-based training portal.

Software for On-the-Job Training

The Information Security management team members may want to refresh their knowledge on the company's information security methodology or how to use the BWise® GRC Platform. If so, they can access the BWise Learning Center to take a five-minute tour on a specific topic. With its thorough explanations and practical workflow illustrations, users will then be able to effectively utilize the BWise software and carry out their responsibilities for the organization.
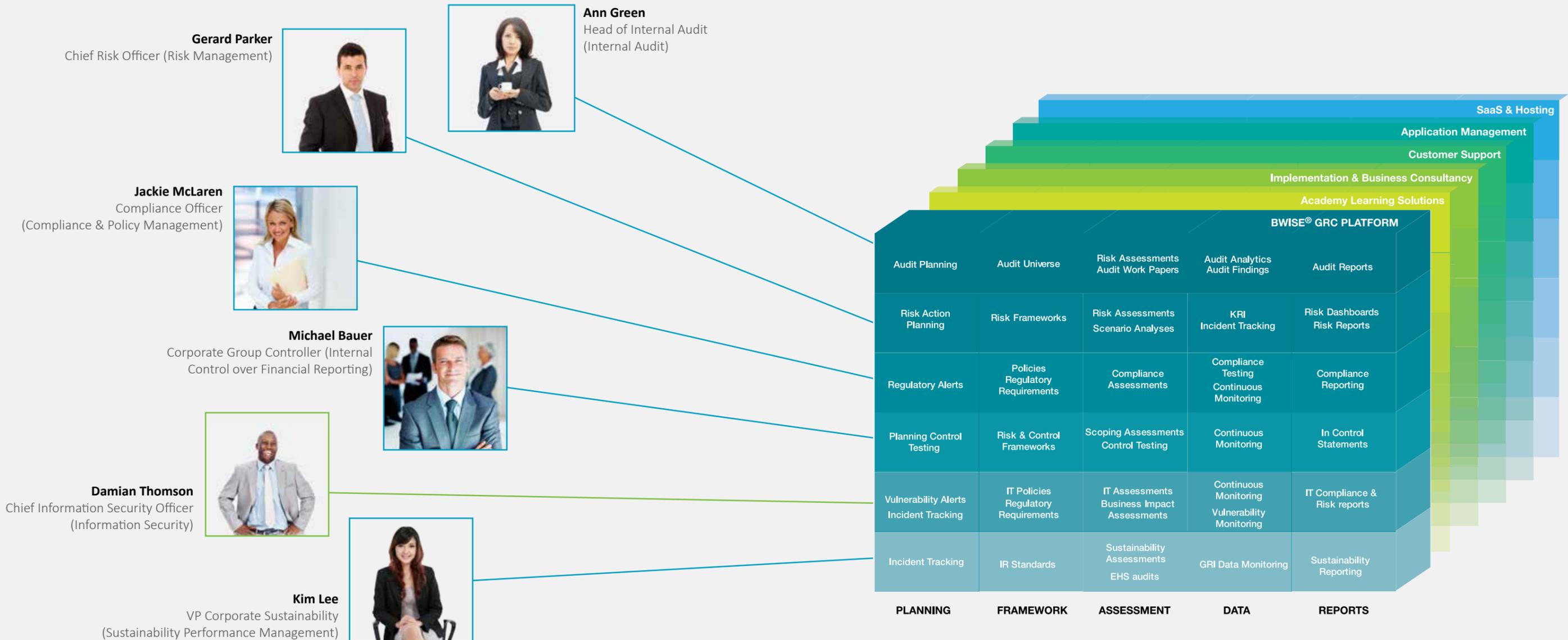
BWise® GRC Platform

More information

BWise Information Security is one of the six different role-based solutions BWise offers within the GRC platform. Damian and his colleagues in Risk Management, Internal Control, Internal Audit, Compliance & Policy Management, and Sustainability

Performance Management all work in the same solution. They all use the same risk taxonomy and speak the same language, improving transparency and efficiency, and creating common ground.

To learn more about how your organization can benefit from an integrated approach to Governance, Risk and Compliance, request the corporate brochure on www.bwise.com/grc-library.

Meet Damian's colleagues Gerard Parker (Risk Management), Michael Bauer (Internal Control), Ann Green (Internal Audit), Jackie McLaren (Compliance & Policy Management), and Kim Lee (SPM) and see how they work with BWise, visit www.bwise.com.

Ann Green
Head of Internal Audit
(Internal Audit)

Gerard Parker
Chief Risk Officer (Risk Management)

Jackie McLaren
Compliance Officer
(Compliance & Policy Management)

Michael Bauer
Corporate Group Controller (Internal Control over Financial Reporting)

Damian Thomson
Chief Information Security Officer
(Information Security)

Kim Lee
VP Corporate Sustainability
(Sustainability Performance Management)

SaaS & Hosting
Application Management
Customer Support
Implementation & Business Consultancy
Academy Learning Solutions

BWISE® GRC PLATFORM

PLANNING	FRAMEWORK	ASSESSMENT	DATA	REPORTS
Audit Planning	Audit Universe	Risk Assessments Audit Work Papers	Audit Analytics Audit Findings	Audit Reports
Risk Action Planning	Risk Frameworks	Risk Assessments Scenario Analyses	KRI Incident Tracking	Risk Dashboards Risk Reports
Regulatory Alerts	Policies Regulatory Requirements	Compliance Assessments	Compliance Testing Continuous Monitoring	Compliance Reporting
Planning Control Testing	Risk & Control Frameworks	Scoping Assessments Control Testing	Continuous Monitoring	In Control Statements
Vulnerability Alerts Incident Tracking	IT Policies Regulatory Requirements	IT Assessments Business Impact Assessments	Continuous Monitoring Vulnerability Monitoring	IT Compliance & Risk reports
Incident Tracking	IR Standards	Sustainability Assessments EHS audits	GRI Data Monitoring	Sustainability Reporting

Join us on the GRC Journey Today

BWise provides GRC solutions for single GRC initiatives as well as cross functional implementations around the globe delivered through local services teams.

Nasdaq BWise

UNITED STATES: ONE OF THE LARGEST INSURANCE COMPANIES MANAGES THEIR IT RISKS AND CONTROLS ACCORDING TO ISO 27002 AND PCI-DSS STANDARDS.

UNITED STATES: ONE OF THE LARGEST CAR MANUFACTURERS UTILIZES BWISE FOR ITS INTEGRITY PROGRAM FOR MORE THAN 200,000 EMPLOYEES.

UNITED STATES: GLOBAL LEADING PHARMA COMPANY UTILIZES BWISE FOR SOX AND FCPA COMPLIANCE INCLUDING SOPHISTICATED DATA ANALYTICS IMPLEMENTATION

UNITED STATES: ONE OF THE LARGEST MORTGAGE INSTITUTIONS UTILIZES BWISE ACROSS THE ORGANIZATION FOR ALL GRC INITIATIVES.

UNITED STATES: ONE OF THE LARGEST AUTOMAKERS UTILIZES BWISE ACROSS ALL GRC FUNCTIONS CORPORATE WIDE.

UNITED KINGDOM: ONE OF THE WORLD'S LEADING PHARMACEUTICAL COMPANIES BECAME SOX COMPLIANT WITH THE HELP OF BWISE TOOLS.

FRANCE: ONE OF THE GLOBAL LEADING TELCO COMPANIES ENSURES ITS' INTEGRITY WITH FINANCIAL REPORTING FOR 2,000+ USERS USING BWISE.

PORTUGAL: THE PORTUGUESE POSTAL SERVICES STREAMLINES ITS INTERNAL AUDIT PROCESSES WITH BWISE.

BRAZIL: LEADING EXCHANGE MANAGES ITS RISKS AND INTERNAL CONTROL PROCESSES WITH BWISE.

SOUTH AFRICA: GLOBAL LEADING BANK DEPLOYED BWISE TO STREAMLINE INTERNAL AUDIT FOR MORE THAN 1,000 AUDITORS

SWEDEN: A GLOBAL LEADER IN HOME AND PROFESSIONAL APPLIANCES USES BWISE TO IMPROVE EFFICIENCY AND EFFECTIVENESS OF ITS INTERNAL CONTROL PROGRAM.

THE NETHERLANDS: AN INTERNATIONAL RETAILER INTEGRATED BWISE FOR ALL THEIR INTERNAL CONTROL, RISK MANAGEMENT AND INFORMATION SECURITY.

SWITZERLAND: ONE OF THE WORLD'S LEADING LUXURY GOODS COMPANIES INTEGRATED BWISE FOR SEVERAL GRC INITIATIVES.

SAUDI ARABIA: A LEADING CHEMICAL FIRM MANAGES ITS GLOBAL RISK, COMPLIANCE AND AUDIT PROGRAM WITH BWISE.

SINGAPORE: LEADING SINGAPORE BASED BANK IS IMPLEMENTING BWISE FOR 16 USE CASES ACROSS THE ORGANIZATION.

AUSTRALIA: LARGE TELCO COMPANY USES BWISE FOR ITS ENTERPRISE RISK MANAGEMENT, REGULATORY COMPLIANCE AND BUSINESS CONTINUITY.

About Nasdaq BWise

Nasdaq BWise is a global leader in Enterprise Governance, Risk Management and Compliance (GRC) software. Based on a strong heritage in business process management, the BWise® GRC Platform provides companies with highly-rated, proven software solutions for Risk Management, Internal Control, Internal Audit, Compliance & Policy Management, Information Security and Sustainability Performance Management.

BWise's end-to-end solutions support an organization's BWise's end-to-end solutions support an organization's ability to understand, track, measure, and manage key organizational risks. Nasdaq BWise helps companies truly be in control by balancing performance with their financial and reputational risks, improving corporate accountability, increasing financial, strategic and operating efficiencies. Using BWise, organizations are able to efficiently comply with anti-corruption regulations like FCPA and the UK Bribery Act, the Sarbanes-Oxley Act, European Corporate Governance Codes, ISAE3402/SAS-70, PCI-DSS, Solvency II, Basel II and III, Dodd-Frank, ISO-standards, and many more.

Nasdaq BWise sales, service and support offices around the globe provide for the GRC needs of hundreds of leading companies worldwide. For more information, visit www.bwise.com.

Contact Information

Nasdaq BWise has sales, service and support offices worldwide. To contact us at our local offices in Asia, Australia, Europe and the United States, visit www.bwise.com/offices.

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