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Quick Facts

SAP Solution Brief

SAP Governance, Risk, and Compliance Solutions | SAP Business Integrity Screening

# Prevent Exceptions in Big Data Environments to Guard Business Integrity





# Prevent **anomalous transactions** to reduce financial losses

Errors, waste, and abuse can lead to losses that compromise profitability. Dealing with questionable business partners can jeopardize your business. Traditional methods to discover suspicious transactions and screen partners can be costly yet ineffective. Learn how your organization can use technology to do both quickly and reliably to help ensure the integrity of your business.

Compliance teams are committed to protecting the enterprise from high-risk and suspicious transactions. But many tools fail to identify such transactions until after they occur. Some require excessive effort by analysts to generate useful information. Some generate too many false alarms. The cost of using these tools is high, and the return is low.

To preserve business integrity, you must be ready to detect anomalous transactions early enough to stop them. Your organization must keep pace with ever-changing patterns of anomalous transactions.

It must screen business partners against lists published by government and international organizations, as well as private content providers, to avoid interaction with high-risk or sanctioned parties.

The SAP® Business Integrity Screening application delivers all the above and more. Powered by the SAP HANA® platform, it gives you the insight needed to detect and prevent anomalies and to deter suspicious transactions with high-risk third parties.

**Prevent anomalous transactions to reduce financial losses**



# Detect anomalous transactions sooner and enhance your control framework

The earlier you detect anomalies, including fraud, the greater your chances are to prevent associated losses. With the real-time detection features of SAP Business Integrity Screening, you can spot activities as they happen and stop anomalous transactions before they impact your bottom line.

Part of SAP governance, risk, and compliance (GRC) solutions, SAP Business Integrity Screening helps you capture, search, and analyze data from multiple sources. You can integrate the application with other business software – both SAP and non-SAP. Your analysts can detect anomalous activity and the application can place a hold on

related transactions before further losses occur. What's more, SAP Business Integrity Screening delivers alert notifications and gives you tools to improve your control framework and enhance business integrity practices.

The software supports a broad range of customer-specific use cases – such as business partner screening, employee travel expenses, external payments, and bribery and corruption. It is a platform that lets you start with any scenarios relevant to your business and expand them later to include others as business needs develop or change.

## Detect anomalous transactions sooner and enhance your control framework

Simplify your screening efforts

Improve detection accuracy at a lower cost

Prevent future anomalies and deter suspicious activity

Integrate with other SAP solutions

Support innovation with SAP technology

Harness in-memory computing to detect suspicious anomalous activity

Secure your business network



## Simplify your screening efforts

Screening business partners can be a complex undertaking. You may need to consult numerous lists just to screen a single partner. You need to ensure that your lists are up to date. And since new business names can always be added to the lists, you may find yourself rescreening your partners on a regular basis.

With SAP Business Integrity Screening, you can simplify these processes and use the speed and power of the SAP HANA platform to screen a large number of partners against any list. You can create numerous complementary screening

strategies – filtering by line of business, for example, or against specific political or financial risks that you may identify.

You can perform real-time screenings, batch screenings, or even “delta” screenings, which look only at the updates to a given watch list. You can even empower your business users to modify screening parameters that control fuzziness, matching percentages, exclusion terms, and much more – all without IT involvement. Your IT team can focus on other projects while business users attend to the screening tasks.

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Your business users can take charge, modifying screening parameters that control fuzziness, matching percentages, exclusion terms – as they need to.



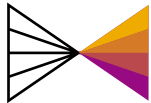
# Improve detection accuracy at a lower cost

Detection tools deliver the highest value when they provide qualified leads. Yet many technologies overwhelm your analysts with false positive results, driving up the cost of investigation and prevention.

You can reduce the workload of your investigation team and drive down costs and effort with features in SAP Business Integrity Screening. Your analysts can use real-time calibration and simulation features to refine searches and improve detection accuracy, even across very large volumes of data.

The in-memory processing technology of SAP HANA helps your investigation team perform rapid, what-if analyses on historic data.

You can reduce the number of false positives using granular criteria – such as customizable weighting factors and thresholds – to adjust detection strategies and search rules. Your investigation team can also use the software to analyze the performance of detection setups to assess which approaches are most effective.



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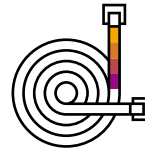
# Prevent **future anomalies** and deter suspicious activity

By combining sophisticated detection rules with leading-edge predictive methods, SAP Business Integrity Screening helps your organization prevent anomalous activity.

The application supports multirule strategies that your team can use to calculate risk scores and optimize detection strategies. Through the integration enabled by the enterprise services feature of SAP Business Integrity Screening to your source systems, you can stop transactions that seem to be anomalous. For example, you can automatically halt payments when conditions exceed preset thresholds.

Using information on historical patterns, the software lets analysts modify detection parameters so your organization can adapt to changing patterns of anomalous activity. By using the application to monitor and optimize the quality of detection, your investigation team can gain insight into the most effective approaches for reducing anomalies, deterring suspicious activity, and making better decisions that reduce risk.

SAP Business Integrity Screening integrates with SAP Predictive Analytics software and other SAP GRC solutions for comprehensive prevention.



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# Integrate with other SAP solutions

Exceptions in transactions can occur in many of your business processes. That's why SAP Business Integrity Screening can integrate with your organization's other transactional and analytic software.

For example, your analysts can use SAP Predictive Analytics software to understand anomalous patterns better and apply strategies to prevent them. The solution's intuitive user interface helps business users gain insight into those patterns while powerful analytics help your investigators understand how and why these exceptions occur.

You can use the integration of the SAP Process Control application with SAP Business Integrity Screening to enhance remediation, using issue management workflows from SAP Process Control. This feature helps you enhance ad hoc controls and policies to develop long-term improvements in preventing anomalous activity. In addition, the SAP Audit Management application can automate its audit procedures by executing detection strategies defined in SAP Business Integrity Screening.

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SAP Business Integrity Screening can work with other SAP GRC solutions to provide a thorough compliance approach, such as three lines of defense.



# Support innovation with SAP technology

Transforming ever-increasing data volumes into information that supports real-time detection and investigation is the key to protecting your enterprise from anomalous activity. High-risk scenarios such as fraud might entail attack strategies that change not monthly or weekly, but by the minute. With the in-memory computing technology of SAP HANA, investigators can collect, analyze, and act on very large amounts of data in real time.

The first step in this process is to collect data. This requires a structured methodology to identify relevant information from an array of heterogeneous sources. The data must then be instantly organized and managed to bring the right pieces of information together to form a 360-degree view of each suspicious case.

The next step is analysis. By integrating SAP Business Integrity Screening with SAP Predictive Analytics, you can perform predictive data modeling and scenario planning. The resulting real-time information must get to the right people to make the right decisions, yielding actions that affect the detection or prevention of questionable activity.

Another innovation in the machine learning space is the ability to classify screening hits based on the history of previous results involving the same screened entities.

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# Harness in-memory computing to detect suspicious anomalous activity

The processing power of SAP HANA lets you analyze data stored in local memory. This eliminates latency issues related to transferring and loading data from the disk – resulting in much faster detection of anomalous transactions. Unique memory-optimized data structures support faster processing with no boundaries on volume, granularity, or timeliness of data, which enhances detection accuracy. In-memory computing puts the results of complex analyses and transactions at your fingertips for real-time detection and prevention.



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This radically faster and fundamentally different approach to detecting suspicious anomalous transactions is made possible by technology advancements in three areas. One, Moore's law soldiers on – resulting in significantly faster processing speeds and rapidly declining memory prices. Two, the mainstream availability of 64-bit processors raises the amount of memory a computer can utilize. Three, hardware manufacturers have shifted from favoring a few fast processors to a multicore architecture that utilizes multiple lower-power, lower-speed processors working in parallel.

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# Secure your business network

What if you discover that a proscribed company or a politically exposed individual has become a business partner? What if a longstanding business partner suddenly appears on a list of companies whose damaging media coverage may reflect badly on you? How can you protect your company and your legitimate business partners?

Screening partners early and often is a critical part of your security and compliance strategy, but you need more than that. If you discover that a bad

actor is already in your business network, you need a way to stop any transactions involving that organization as soon as you discover the status.

SAP Business Integrity Screening can help secure your business network by integrating with key business software systems – whether from SAP or third parties – to halt potentially harmful transactions automatically before they affect you, other business partners, or your reputation.

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# Detect early and precisely to enhance protection

Protect your organization with SAP Business Integrity Screening. Using the in-memory computing technology of SAP HANA, the software offers real-time detection features that help your investigators prevent anomalous activity as early as possible to reduce losses and protect revenue. The transaction security of your organization's key business processes increases. The flexible platform lets you add multiple types of detection scenarios.

With increased investigation accuracy and fewer false positives, your investigation team can work more productively, with less effort and cost. You can use the application's management dashboard to assess whether resources are being allocated efficiently, so you can maximize the value delivered by your investigative team.

The screening features of the application enable you to make use of any lists that may be useful to your business and to screen partners in different ways to meet various business and compliance requirements. You can screen partners in real time, you can screen them in groups, or screen them all together, as part of routine compliance reviews.

Lastly, the powerful detection functionalities of this application allow you to sustain and continuously improve your compliance status with regulations such as antifraud and anticorruption mandates, among others.

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### Summary

The SAP® Business Integrity Screening application gives you the insight you need to detect, prevent, and investigate risk-prone third parties as well as potential fraud, error, waste, abuse, and other anomalies. Powered by the SAP HANA® platform, the software processes high volumes of data in real time, helping your analysts detect potential exceptions early to help reduce financial losses.

### Objectives

- Detect anomalous transactions early to reduce financial losses
- Screen new business partners in real time and monitor existing partners
- Minimize false positives and resolve potential matches quickly
- Integrate with other GRC solutions to enhance controls and automate audits
- Predict and prevent future recurrences

### Solution

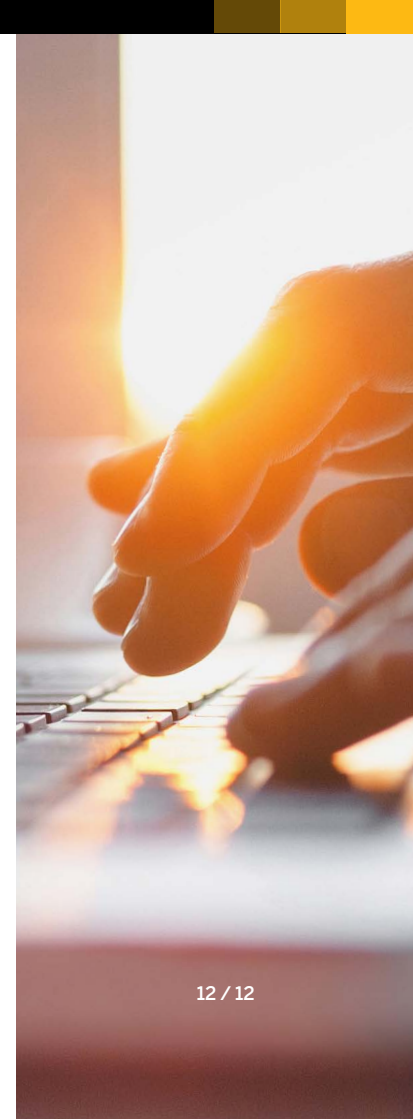
- Real-time detection tools to identify and stop anomalous transactions early
- Risk-based screening strategies
- Powerful calibration and simulation features
- Rules and predictive methods to optimize scenario analysis
- Use of latest innovations like machine learning to help investigators
- Integration with other SAP governance, risk, and compliance (GRC) solutions to provide a thorough compliance approach

### Benefits

- Enhanced financial protection
- Higher productivity of your investigation team
- Mitigated risk of fraud and noncompliance with increased business reliability

### Learn more

For more information, visit us online at [www.sap.com/grc](http://www.sap.com/grc).



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