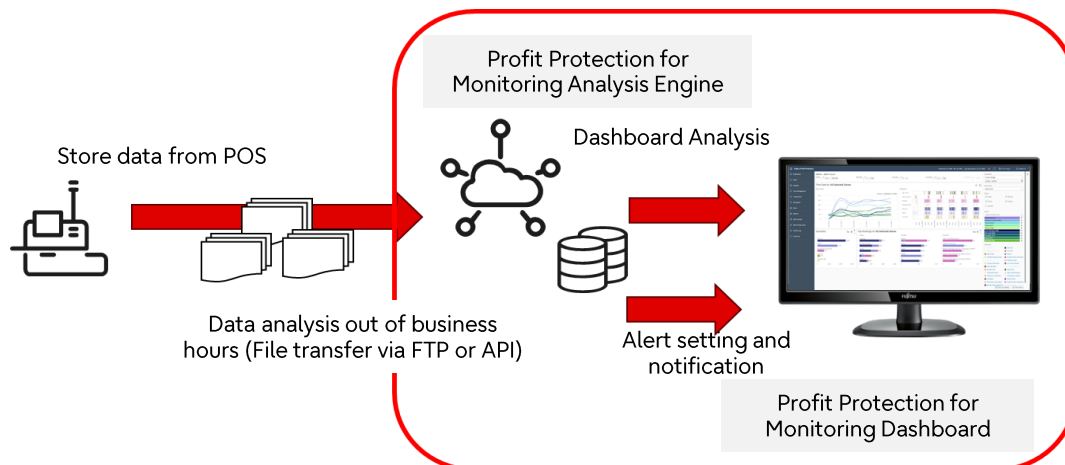


## Integrated Analysis of Store Data to Detect Potential Fraud and Reduce Revenue Loss

Retailers today face multiple challenges, including an aging workforce, labor shortages, the need to improve working hours and workplace environments, and rising energy costs driven by changing social and economic conditions. As a result, improving labor productivity and reducing operational costs in stores has become an urgent priority. Profit Protection for Monitoring analyzes daily POS data, inventory data, and other store-related information to detect suspicious operations, such as fraudulent POS transactions. This enables retailers to take prompt action to prevent losses.

### Service Overview

Integrate and analyze store data to detect potential fraud and reduce revenue loss



The service detects irregular behavior by comparing POS transactions, returns, discounts, and inventory management data against predefined risk patterns, such as:

- Multiple discounts applied within a short period
- High-frequency returns of specific products
- By identifying potential risks at an early stage and displaying alerts on the management dashboard, retailers can respond quickly and effectively.

### Service Highlights

- 1 Smart Detection of Irregular Operations**

Analyzes POS, pricing, returns, and inventory data against predefined and custom risk patterns to quickly detect suspicious activity and trigger early alerts.
- 2 Intuitive, Customizable Dashboard**

A manager-friendly dashboard visualizes daily operations, supports store-specific risk rules, and helps identify issues and improve processes through data-driven insights.
- 3 Scalable Cloud Platform**

A cloud-based architecture efficiently processes large volumes of data across multiple stores, enabling real-time comparison and drill-down verification of suspicious transactions..

# Key Features and Specifications

## Significant Reduction of Employee-Related Losses and Faster Fraud Detection

In the first year of deployment, employee-related fraud losses were reduced by approximately 25%. By refining fraud scenarios during ongoing operations, accuracy improved, resulting in an approximately 85% reduction in fraud losses from the second year onward. Automated daily analysis reduced the time required to detect and understand fraudulent activity from 60 days to just 5 days

## Fraud Scenarios


The service provides 30 predefined fraud and risk operation scenarios. Retailers can customize these scenarios by adjusting thresholds to detect alerts in real time.

Example: Trigger an alert when refunds of ¥5,000 or more or receipt cancellations occur repeatedly.

## Dashboard Functions

**Monitoring**

- Daily alert summary
- Analysis by fraud pattern
- Store ranking



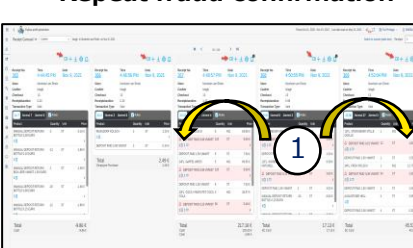
**Alert & Rule Setting**

- Store / employee / rule
- Risk value (sales impact)



**Drill-Down & Analysis**

- Transaction context review (Before & after check)
- Repeat fraud confirmation



## Menu Structure

Menu Item	Description
Dashboard	Overview of alerts, risk indicators, and operational status across stores
Transaction Analysis	Detailed analysis of POS transactions, returns, discounts, and cancellations
Fraud Scenarios	Management of predefined and customized fraud/risk detection scenarios

## Cases

### POS & Checkout Operations

Monitoring of POS transactions to detect irregular activities such as repeated discounts, excessive refunds, receipt cancellations, and abnormal transaction patterns at checkout.

### Returns & Inventory Operations

Identification of high-risk return patterns and inconsistencies between POS transactions and inventory data to reduce shrinkage and operational losses.

### Price Changes & Discounts

Detection of unauthorized price overrides, manual discounts, and markdown operations that may indicate misuse or fraudulent behavior.

## Related Information

Profit Protection for Monitoring Demo, customer case studies, and other materials related to Profit Protection for Monitoring are available in the [Related Content] section of the [\[Advanced Operation & Management\]](#) page.

## Contact

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