

RAZ-LEE

AP-JOURNAL

Database Monitoring and Reporting

About Raz-Lee Security

Founded in 1983, Raz-Lee Security is one of the world's leading independent owned cybersecurity and compliance solution providers for IBM i servers (AS/400).

Raz-Lee's flagship iSecurity suite guards organizations against insider threats and unauthorized external access to business-critical information hosted on their IBM i. We have developed cutting-edge solutions that have revolutionized analysis and fortification of IBM i servers.

We build solutions that work with other companies' technologies allowing organizations to monitor IBM i activity via SIEM or DAM dashboards.

Technology Business Partners



About iSecurity Suite

Advanced Threat Protection

- Anti-Ransomware
- Antivirus / Malware protection
 - ICAP Optional Client/Server for Antivirus

Authentication & Authorization

- MFA Multi Factor Authentication
- Self Password Reset
- Authority On Demand

Protection

- Firewall FTP, ODBC...access
- Monitor CL Commands
- Safe-Update to protect production files

Evaluation, Reporting & Alerts

SIEM & DAM Support

Syslog, SNMP, CEF, LEEF

Visualizer

Business Intelligence for Security

Score Cards

for GDPR, SOX, PCI, HIPAA...

Security Investigator

Data Discovery, Authority Inspector, Assessment

Encryption

- DB2 Field Encryption (FIELDPROC)
- PGP File Encryption

Data Base Solutions

- AP-Journal DB Audit, Filter, Alerts, SIEM
- DB-Gate Native SQL to Oracle, MSSQL...
- FileScope Secured file editor

Auditing & Response

- Audit Journal, System Values, Status...
- Proactive re-Action in real time
- Capture screen activity
- Compliance of Users, Objects, IFS
- Change Tracker watch Production Libraries

AP-Journal

Database Monitoring and Reporting

Business Intelligence Traceability

Due to have information from Multiple Sources, usually most systems bring the latest results, but most of the time we need to know all the changes done to the data before making a good Business decision.

- With its unique technology, AP-Journal logs database access (READ operations) directly into the journal receivers. This functionality, which OS/400 journaling does not provide, constitutes an important component of compliance.
- By providing a timeline report of all changes relating to application data, AP-Journal reduces unauthorized activity and enables users to meet regulatory requirements. It also issues real-time alerts to inform managers of any changes in application databases or unapproved access to critical data.

When could this be Useful?

When u need to answer complicated questions like:

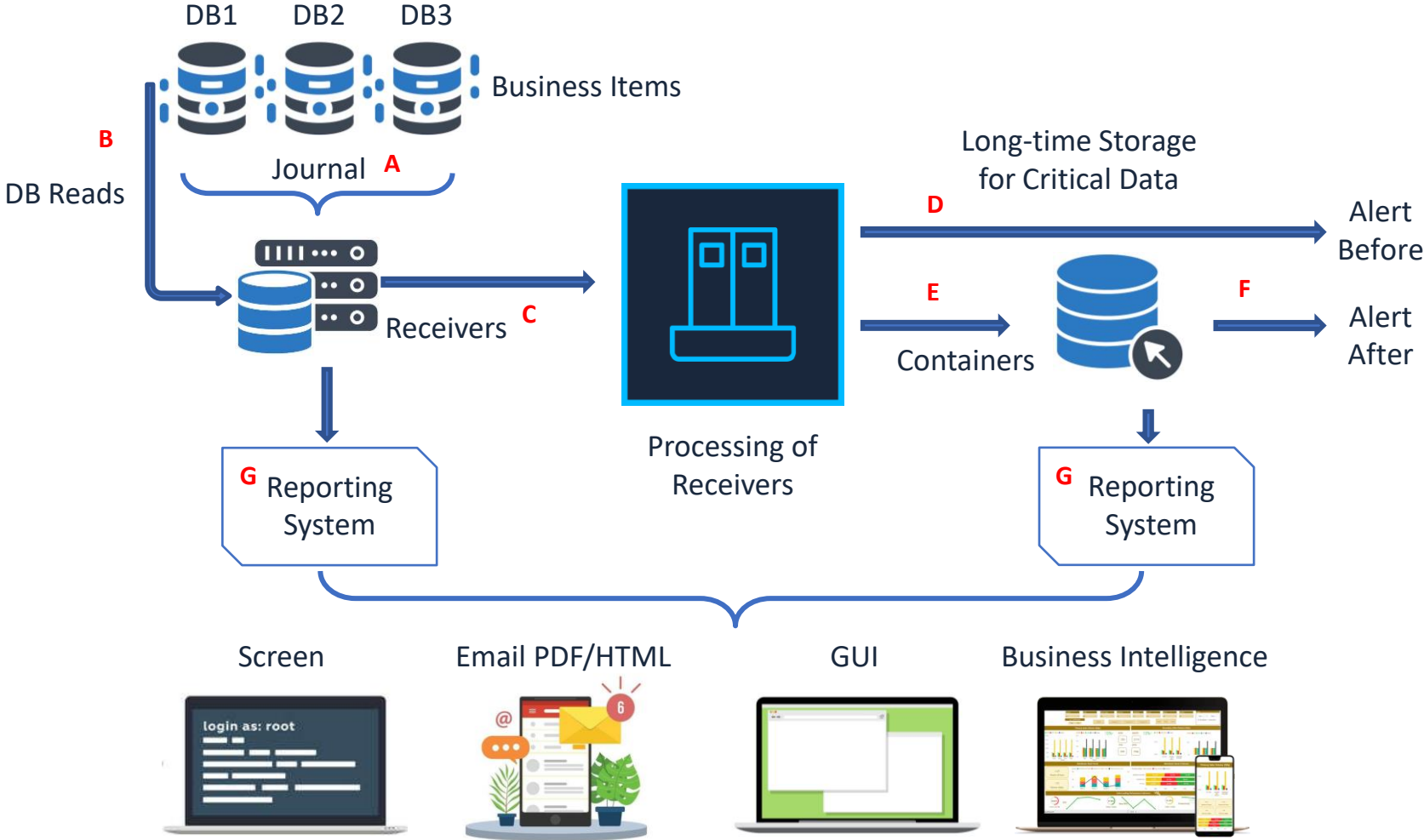
- Who modified file PAYMENTS between 20:00 and 06:00 during vacation; among those, who reduced the PAYMENT_AMOUNT by more than 15%?
- Who worked on the SALARY file during non-standard business hours, and accessed employees whose salaries exceed \$5,000 monthly?
- Provide a timeline report of all changes made to his MORTGAGE (covering the dozens of files in the MORTGAGE application), during the past 25 years.
- Send an SMS message and e-mail to the company's Chief Security Officer when the PRICE_OF_ITEM changes by more than 4%.
- Send a SYSLOG message and operator message when the PRICE_OF_ITEM for an ITEM shipped last month changes by more than \$6.20.
- Send an e-mail when anyone accesses the record of an employee whose monthly SALARY is greater than \$5000.
- What changes to the hospital's PATIENTS file were made via utility application DFU?
- And so on...

Getting the Data

AP-Journal Protects Business-critical information, and notifies managers of any changes to information assets and streamlines IBM i journaling procedures.

- Users can integrate information from various files and view all changes relating to a specified business item. In addition, AP-Journal helps enforce business rules by triggering external functions.
- AP-Journal logs the who, what, when and which of activities. It logs database access (READ operations) directly into the journal receivers, which is not provided by IBM i journaling and is an important component of compliance.

Workflow



Screen Report

■ **Display Database Updates** RRN: 2

Name: JORDE Order Entry UP Update

Job: QPADEV0006/QSECOFR/711561 File: JDORDDT

Date-Time . .: 2008-06-11-14.31.12 Library . .: SMZJDTA

User: QSECOFR Member . . .: JDORDDT

Program . . .: JDORDDTD IP address : 1.1.1.158

Field/Text	After	Before
DORDNO	000002	000002
DLINNO	1.	1.
DITMCD	MIK/3211-1	MIK/3211-1
DQUANT	1120.00	1106.00
DPRICE	15.00	11.06
DDDATE	2008-07-01	2008-07-01

F3=Exit F7=Subset F8=Print F12=Cancel F17=Top Bottom

Display data before & after any changes which were made from a specific IP address

Html Report

iSecurity		DEMO			S720	
DSALE DEMO					S720	Page: 15/04/10 16:
User	Operation	File	Library	Member	Current value	Before value
JR	Update	PRODLIST	ADTSLAB	PRODLIST	Partno, PartD	2007-09-18-11.
>>>	Part Number				00003	00002
JR	Write	PRODLIST	ADTSLAB	PRODLIST	Partno, PartD	2007-09-18-11.
>>>	Part Number				00004	
JR	Update	PRODLIST	ADTSLAB	PRODLIST	Partno, PartD	2007-09-18-11.
>>>	Part Number				00003	00003
>>>	Part Desc				Part #-3 (Journal)	PART NO-3 (Journal)
JR	Update	PRODLIST	ADTSLAB	PRODLIST	Partno, PartD	2007-09-18-11.
>>>	Part Number				00004	00004
>>>	Part Desc				Part #4 (On Demand)	PART #4 (On Demand)
JR	Update	CUSTOMER	ADTSLAB	CUSTOMER		2007-09-18-11.
>>>	City				Boca Raton	Boca Raton, FL
JR	Update	CUSTOMER	ADTSLAB	CUSTOMER		2007-09-18-11.
>>>	City				Jacksonville	Jacksonville, FL
JR	Update	CUSTOMER	ADTSLAB	CUSTOMER		2007-09-18-11.
>>>	Company name				Sudbury Radio & TV	Sudbury Radio and TV
JR	Update	PRODUCT	ADTSLAB	PRODUCT	Product detail (no bitmap): KEY-PARTNO,MODEL	2007-09-19-09.
>>>	Wholesale price				45.50	33.82
>>>	Retail price				40.00	38.00
>>>	Volume discount				Y	N

GUI Report

The screenshot displays the iSecurity GUI interface. On the left, a tree view shows the system structure, including 'S520_Local' and 'iSecurity [1]'. The main window is titled 'Application Outputs' and shows a list of entries. A 'DEMOA Details' dialog box is open, providing information for a specific entry.

Entry type	Job name	User name	Job number	User profile	Program name	Program library	Object name	Objects library	Member
Update	QPADEV000H	QSECOFR	407873	QSECOFR	JDBLDDR	SMZJ	JDWHLOT	SMZJDTA	JDWHLOT
Update	QPADEV000H	QSECOFR	407873	QSECOFR	JDBLDDR	SMZJ	JDWHLOT	SMZJDTA	JDWHLOT
Update	QPADEV000H	QSECOFR	407873	QSECOFR	JDBLDDR	SMZJ	JDWHLOT	SMZJDTA	JDWHLOT
Update	QPADEV000H	QSECOFR	407873	QSECOFR	JDBLDDR	SMZJ	JDWHLOT	SMZJDTA	JDWHLOT
Update	QPADEV000H	QSECOFR	407873	QSECOFR	JDBLDDR	SMZJ	JDWHLOT	SMZJDTA	JDWHLOT
Update	QPADEV000H	QSECOFR	407873	QSECOFR	JDBLDDR	SMZJ	JDWHLOT	SMZJDTA	JDWHLOT
Update	QPADEV000H	QSECOFR	407873	QSECOFR	JDBLDDR	SMZJ	JDWHLOT	SMZJDTA	JDWHLOT
Update	QPADEV000H	QSECOFR	407873	QSECOFR	JDBLDDR	SMZJ	JDWHLOT	SMZJDTA	JDWHLOT
Update	QPADEV000H	QSECOFR	407873	QSECOFR	JDBLDDR	SMZJ	JDWHLOT	SMZJDTA	JDWHLOT
Update	QPADEV000H	QSECOFR	407873	QSECOFR	JDBLDDR	SMZJ	JDWHLOT	SMZJDTA	JDWHLOT

DEMOA Details

Job: QPADEV000H/QSECOFR/407873 Date: Jul 17, 2012 IP address: 1.1.1.164 File: SMZJDTA/JDORDDT
User: QSECOFR Security Officer Time: 12:11:13 PM Program: SMZJ/JDBLDDR Member: JDORDDT

Field name	Field text	Before	After	Changed
DORDNO	ORDER NUMBER	103476	103476	No
DLINNO	LINE NUMBER	1.	1.	No
DPRICE	PRICE	10.40	10.15	Yes

Business Intelligence Report

The screenshot displays the iSecurity Business Intelligence Report interface. On the left is the 'iSecurity Navigator' tree view. The main area is titled 'Security [1] - Demo with Business Item 01 and 02' and contains a filter configuration table, a data table, and a pie chart.

Filter 1 Configuration:

Filter	Value
Date	Jan 31, 2010 - Mar 16, 2010;
Operation	UPDATE ;
IP Address	1.1.1.192 ;
Job name	QPADEV0019;
Program	JDBLDDR ;
Object	JDORDDT ;

Data Table:

Line	Quantity
1	675
2	665

Pie Chart Data:

Line	Quantity	Percentage
1	675	50%
2	665	50%

Table Headers: Date, System, IP Address, Operation, Job name, Program, Program Library, Object, Object Library, Member, User profile, Order, Line

Status: Items(Selected/Total) 0/2, Records(Selected/Total) 0/1340

iSecurity AP-Journal Advantages

- Addresses PCI, SOX, HIPAA, etc. requirements
- Long-term storage of sensitive information, independent of journal receiver lifecycle
- Advanced filtering enables saving only important information, to suit storage limits
- READ operations selectively added to Journal, for compliance with PCI requirements
- Real-time alerts on changes in business-critical data & access, sent as operator messages, e-mail, SMS, SYSLOG; CL Scripts execution
- Timeline and cross-application reports based upon user-defined business items

iSecurity AP-Journal Advantages

- Report data can include key fields, description fields and modified fields (highlighted)
- Output as Online, Print, HTML, PDF, Outfile & Email
- Filter according to “before” or “after” values of each database field. Boolean And/Or, EQ, GT, LE... N/LIKE, N/LIST... conditions refer to percentage or absolute value changes
- Runs on a High Availability system, reducing performance impact on Production Systems
- Real-time or scheduled operation mode

RAZ-LEE

Thank You

For more information about our company and products please visit
www.razlee.com