

SESSION AGENDA FOR DISCUSSION

MEANING OF AUDIT TRAIL

REGULATORY IMPLICATIONS

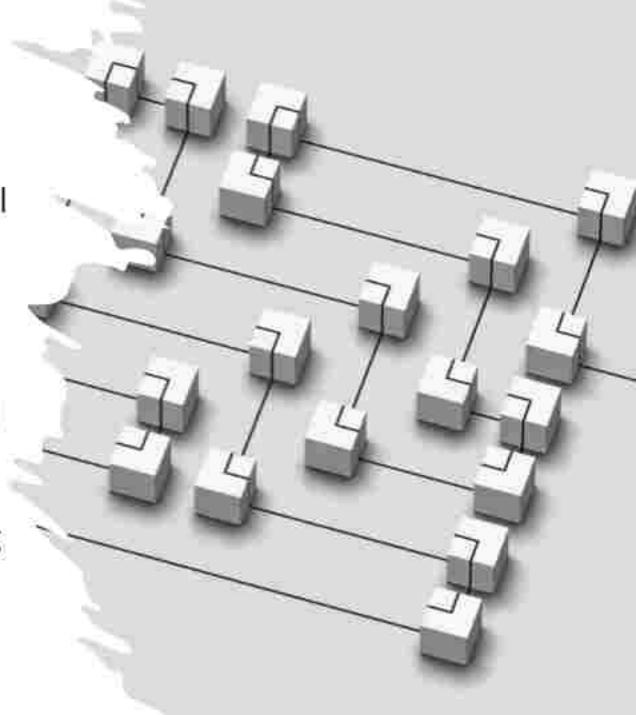
CASE STUDIES AND PRACTICAL CHALLENGES

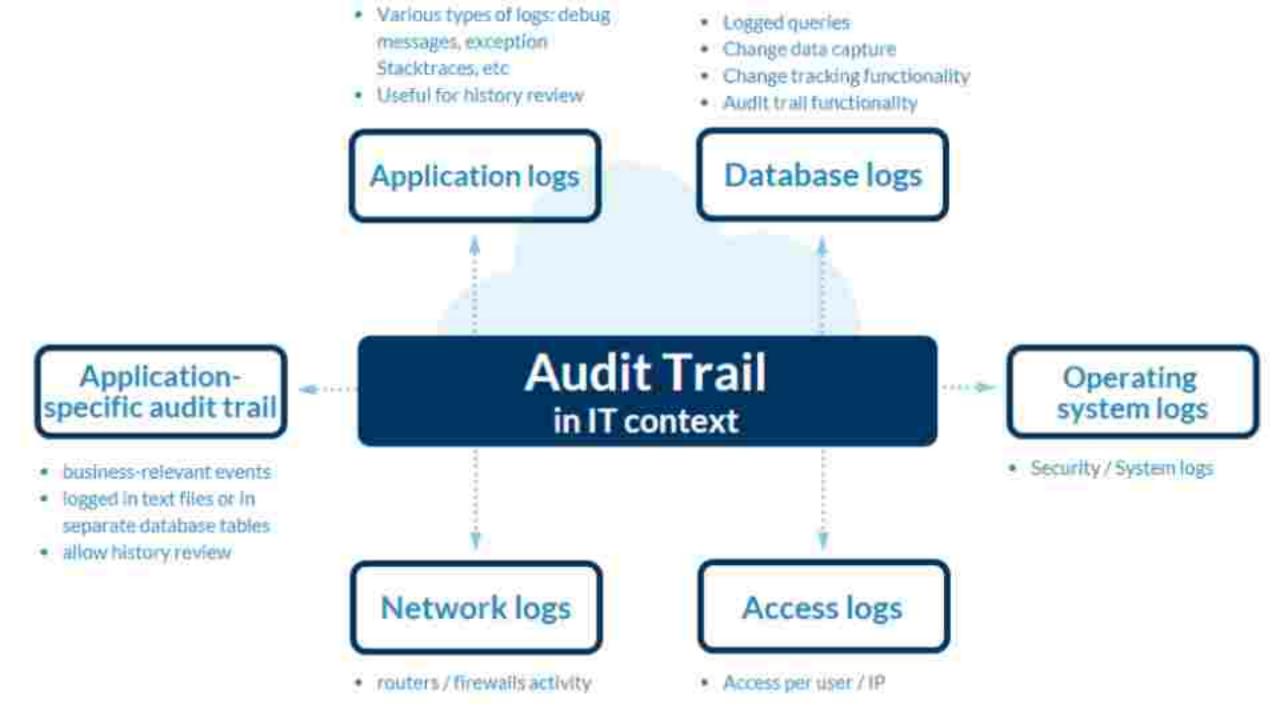


https://www.youtube.com/watch?v=HvhwywuufMA (9.19 to 13.26)

WHAT IS AUDIT TRAIL?

- Audit Trail (or Edit Log) is a visible trail
 of evidence enabling one to trace
 information contained in statements
 or reports back to the original input
 source.
- Audit trails are a chronological record of the changes that have been made to the data. Any change to data including creating new data, updating or deleting data that must be recorded





SEBI (Prohibition of Insider Trading) Regulations, 2015- AUDIT TRAIL FOR DIGITAL DATABASE

- "unpublished price sensitive information" means any information, relating to a company or its
 securities, directly or indirectly, that is not generally available which upon becoming generally
 available, is likely to materially affect the price of the securities and shall, ordinarily including but
 not restricted to, information relating to the following: —(i)financial results;(ii)dividends;(iii)change
 in capital structure; (iv)mergers, de-mergers, acquisitions, delistings, disposals and expansion of
 business and such other transactions; (v)changes in key managerial personnel.
- The board of directors or head(s) of the organisation of every person required to handle unpublished price sensitive information shall ensure that a structured digital database is maintained containing the nature of unpublished price sensitive information and the names of such persons who have shared the information and also the names of such persons with whom information is shared under this regulation along with the Permanent Account Number or any other identifier authorized by law where Permanent Account Number is not available. Such database shall not be outsourced and shall be maintained internally with adequate internal controls and checks such as time stamping and audit trails to ensure non-tampering of the database.

S.No	Nature of UPSI	Project Name	Date of Sending	Name of Sender	Action
UPSI-1	Dividends,Financial results	Sdd Project	Sep 20, 2022	sad@demo.com	GF 💼 🕏
UPSI-2	Dividends,Financial	Sdd Project	Sep 20, 2022	sdd⊕demo.com	CY 0 %

As per Law, SDD shall contain:

Log of UPSI Transfer

Distribute of communication of identified triputationed Visite Sensitive Information (UPSF)

Identifiers of parties

PAN or other identifiers of the sender and recipient. of UPstate be stored.



Details of UPSI

Notice of LPSI and the purpose of which the UPSI was stored with the majorit.

Audit trail

Date and time of making ermus in 500 to be coptured dung with the actual date and time when the UPS was styring Applica

Information systems audit policy for the banking and financial sector -RBI Guidelines on IS Audit and Cyber Security

The IS auditors should verify whether:

- a) The audit trail report generates the user ID of the operator and the official for any addition / modification / deletion of the transaction data effected in the database.
- b) Audit trail report is generated daily. Entries are scrutinized and verified.
- c) Audit trail report indicates the evidence/information of unauthorized access outside application menu.
- d) List of the cancelled entries is scrutinized and reasons for cancellation are recorded.

Compliance Implications for CA/CS professionals

- Educate the Client on Implication and Road Map for Implementations
- As per Section 92 of the Companies Act, 2013 (the Act, 2013), the Annual Return is required to be signed by a Company Secretary and in the absence of a Company Secretary by a PCS. The annual return discloses the facts correctly and adequately and that the company has complied with all the provisions of this Act
- Signing of Balance Sheet by full time CS in Employment as KMP
- The details in respect of adequacy of internal financial controls with reference to the Financial Statements to be reported in Directors report as per Rule 8(5) of the Company Account Rules, 2014.
- That the directors had devised proper systems to ensure compliance with the provisions of all applicable laws and that such systems were adequate and operating effectively-Section 134.
- Explanations or comments by the Board on every qualification, reservation or adverse remark or disclaimer made by the auditor in his report & by the company secretary in practice in his secretarial audit report.
- Obtain Management Representations while signing and certifying
- Rely on Work of IT Experts and Reports, if required
- . Reporting by Statutory Auditors on Compliance as per Rule 11(g) in Audit Report
- Filing of AOC-5 for Books of Accounts location



KEY ACCOUNTINGS RISKS ILLUSTRATIONS- FROM TRIAL TO TRAIL?

- Adjustments in related Party Transactions to Adjust/avoid Omnibus Approval Limits
- Negative cash balance in accounting software subsequently rectified by the accountant by entering cash receipts on a later date in back date
- Cash transactions entered after the year end to adjust the profits
- Back dated entries after year end to adjust the profits
- Cancellation of vouchers at the year end to reduce income or reduce expenses
- Splitting the transactions subsequently to avoid disallowances under income tax





JOURNEY SO FAR

Companies (Audit and Auditors) Amendment Rules, 2021 vide Notification No. GSR 206(E) dated March 24, 2021

RULE 11(G)

Company (Accounts)
Amendment Rules,
2021 vide
Notification dated
March 24,2021

Company (Accounts) Fourth Amendment Rules, 2022 Applicability was deferred to financial year commencing on or after April 1, 2022 NOTIFICATION NO GSR 235(E) 31st March

2022 Applicability of Rule 3(1) w.e.f 1-April-2023

APPLICABILITY

IMPLEMENTATION DATE

ACCESIBILTY

AND LOCATION

RULE 3(1)

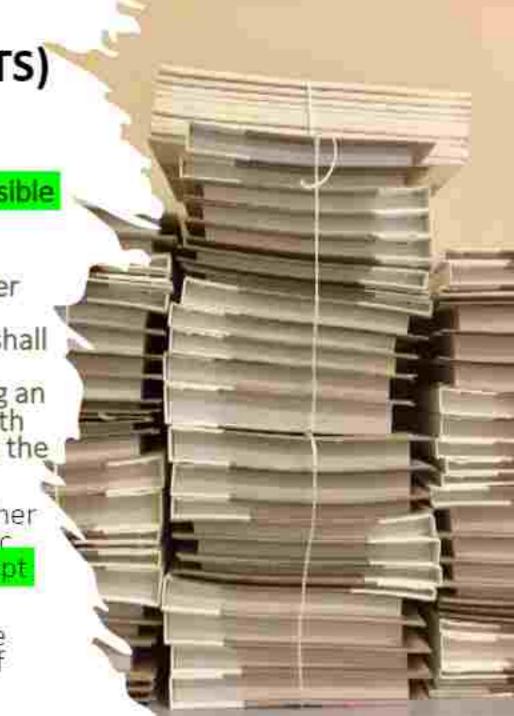
RULE 3(1) OF COMPANIES (ACCOUNTS)
RULES, 2014

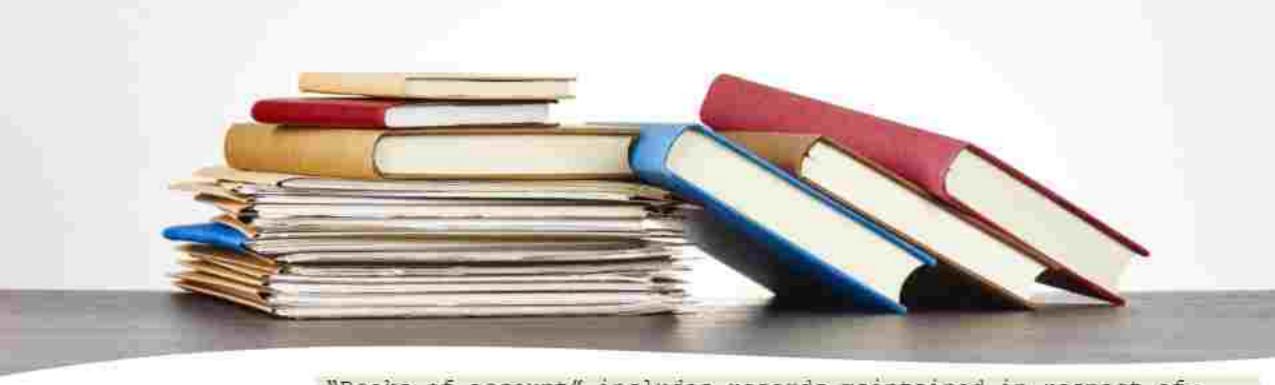
(1) The books of account and other relevant books and papers maintained in electronic mode shall remain [accessible in India, at all times] so as to be usable for subsequent reference.

[Provided that for the financial year commencing on or after the [1st day of April, 2023], every company which uses accounting software for maintaining its books of account, shall use only such accounting software which has a feature of recording audit trail of each and every transaction, creating an edit log of each change made in books of account along with the date when such changes were made and ensuring that the audit trail carnot be disabled.]

Provided that the back-up of the books of account and other books and papers of the company maintained in electronic mode, including at a place outside India, if any shall be kept in servers physically located in India on a [daily basis].

(e) where the service provider is located outside India, the name and address of the person in control of the books of account and other books and papers in India.]





Definition of Books of Accounts as per Section 2(13) of the Act "Books of account" includes records maintained in respect of-

- (i) all sums of money received and expended by a company and matters in relation to which the receipts and expenditure take place;
- (ii) all sales and purchases of goods and services by the company;
- (iii) the assets and liabilities of the company; and
- (iv) the items of cost as may be prescribed under section 148 in the case of a company which belongs to any class of companies specified under that section;

Key Definitions Information Technology Act, 2000

- "electronic record" means data, record or data generated, image or sound stored, received or sent in an electronic form or micro film or computer generated micro fiche
- The authentication of the electronic record shall be effected by the use of asymmetric crypto system and hash function which envelop and transform the initial electronic record into another electronic record.
- Section 7: Retention of Electronic records: The electronic record is retained in the format in which it was originally generated, sent or received or in a format which can be demonstrated to represent accurately the information originally generated, sent or received

IS IT APPLICABLE TO ALL CLASS COMPANIES AND LLP?

- The reporting requirements have been prescribed for audit of financial statements prepared under the Act.
- Auditors of all class of companies including section 8 companies would be required to report on these matters.
- As per the Companies (Registration of Foreign Companies) Rules, 2014, the provisions of "Chapter X of the Act: Audit and Auditors" and Rules made there under apply, mutatis mutandis, to a foreign company as defined in the Act.
- Reporting on compliance with Rule 11(g) would also be on the basis of the reports of the statutory auditors of subsidiaries, associates and joint ventures that are companies defined under the Act.
- IS IT APPLICABLE TO LLP? No

- ✓ All Public and Private Limited Companies
- ✓ One Person Companies (OPCs)
- Companies owned by Government of India
- ✓ State Government Companies
- ✓ Not-for-Profit
 Companies/Organization
- ✓ Nidhi Companies

Management Responsibility as per Proviso to Rule 3(1) of Companies (Accounts) Rules,

- The amendments require <u>every company</u> that uses an accounting software to use such software that has a feature of <u>audit trail</u> which <u>cannot be</u> <u>disabled</u>.
- Management, who is primarily responsible for ensuring selection of the appropriate accounting software for ensuring compliance with applicable laws and regulations (including those related to retention of audit logs).
- Any software that maintains records or transactions that fall under the definition of <u>Books of Account as per the section 2(13) of the Act</u> will be considered as accounting software
- Accounting software may be hosted and maintained in India or outside India or may be on premise or on cloud or subscribed to as Software as a Service(SaaS) software



Companies (Audit and Auditors) Amendment Rules, 2021 - Rule 11(g)

(g) Whether the company has used such accounting software for maintaining its books of account which has a feature of recording audit trail (edit log) facility and the same has been operated throughout the year for all transactions recorded in the software and the audit trail feature has not been tampered with and the audit trail has been preserved by the company as per the statutory requirements for record retention.".

[F. No.1/33/2013.CL-V (Part)]

K.V.R. Murty,

Joint Secretary to the Government of India

AUDITORS RESPONSIBILITY UNDER RULE 11(g)

Specific assertion in the audit report under the section 'Report on Other Legal and Regulatory Requirements on below parameters:

- Whether the audit trail feature is configurable
- Whether the audit trail feature was enabled/operated throughout the year?
- 3. Whether all transactions recorded in the software are covered in the audit trail feature?
- 4. Whether the audit logs can be tampered?
- 5. Whether audit trail is enabled for such transactions which result in a change to the books of account?
- 6. Whether the audit trail has been preserved as per statutory requirements for record retention?

(Section 128(5) of the Act, which requires books of account to be preserved by companies for a minimum period of eight years, the company would need to retain audit trail for a minimum period of eight years i.e., effective from the date of applicability of the Account Rules (i.e., currently April 1, 2023, onwards).

Auditor's responsibility under the Audit Rules includes transactions which have been recorded in the accounting software and subsequent changes made to those transactions?

MAPPING OF SYSTEMS AND SOFTWARE IMPACTING FINANCIAL RECORDS

Name of the Accounting Software	Records Maintained (Books Of account)	Hosting Location	Maintained In House or Outsourced	Data Base	Operating System	Audit Trail Enabled
TALLY ERP	Journal entries, Subledgers and General Ledger	Company Data Center, Mumbai	In-House	ASP.NE T	Windows 10	Yes
ZOHO	Inventory and Payroll	Saas/On Cloud	Outsourced Maintained by Service provider	Java	Windows 10	Yes
FAR	Fixed Assets	Saas/On Cloud	Outsourced Maintained by Service provider	Java	Windows 10	Yes
Payroll and Biometric System	Payroll ,Employee Master details and Attendance Records	Saas/On Cloud	Outsourced Maintained by Service provider	Java	Web Based	No

"As proviso to rule 3(1) of the Companies (Accounts) Rules, 2014 is applicable for the company only w.e.f. April 1, 2023, reporting under this clause is not applicable"

DO WE HAVE DIFFERENT IMPLEMENTATION DATE FOR 11(g) AND RULE 3(1)?

- As per the requirements as mentioned in Rule 11(g) audit reporting will be triggered for financial years commencing on or after April 1,2022, however, the applicability of the Account Rules 3(1) will commence on or after April 1, 2023.
- For the financial year 2022-23 where in absence of compliance requirement for the companies are auditors require to report under the Audit Rules?
- Are rule prospective or retrospective?
- Auditor may refer this in F.Y 2023-24 audit for opening balances review.

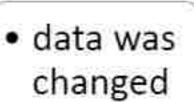
Compliance Checkpoints

- Identify the records and transactions that constitute books of account under section 2(13) of the Act
- identify the software i.e., IT environment including applications, web-portals, databases, Interfaces, Data Warehouses, data lakes, cloud infrastructure, or any other IT component used for processing and or storing data for creation and maintenance of books of account;
- Ensure such software have the audit trail feature
- Ensure that the audit trail captures changes to each and every transaction of books of account
- ensure that the audit trail feature is always enabled (not disabled);
- ensure that the audit trail is enabled at the database level (if applicable) for logging any direct data changes
- ensure that the audit trail is appropriately protected from any modification
- ensure that controls over maintenance and monitoring of audit trail and its feature are designed and operating effectively throughout the period of reporting

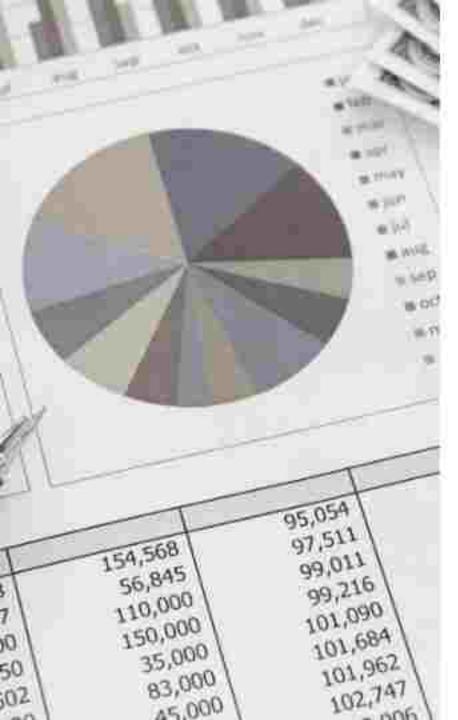
changes were made

 made those changes









Compliance Checkpoints

- Obtain Logs for year end or reporting Data Balance for Key Transactions reported or certified like Cash Balance, related Party Balances, Stock Balances, Fixed Assets etc.
- Review Ageing Report Balances
- Data Splitting and EOD Run for F.Y 21-22 Balances to review the opening balances audit logs (To Note the Split date for reporting perspective?)
- Auditors to have separate login IDs in system to view the audit trails from the applications
- Check policy on Book Closure date and Hard Closure in System to avoid back dated entries beyond specific period.



IT CONTROL CHECKPOINTS

Controls to ensure that User IDs are assigned to each individual and that User IDs are not shared

Controls to ensure that changes to the configurations of the audit trail are authorized and logs of such changes are maintained.

Controls to ensure that access to the audit trail (and backups) is disabled or restricted and access logs, whenever the audit trails have been accessed, are maintained.

Controls to ensure that periodic backups of the audit trails are taken and archived as per the statutory period specified under Section 128 of the Act.

The management of the company may have put in place certain controls such as restricting access to the administrators and monitoring changes to configurations that may impact the audit trail.



Audit Trail in Accounting Applications-Illustrations

Tally

ZOHO

SAP

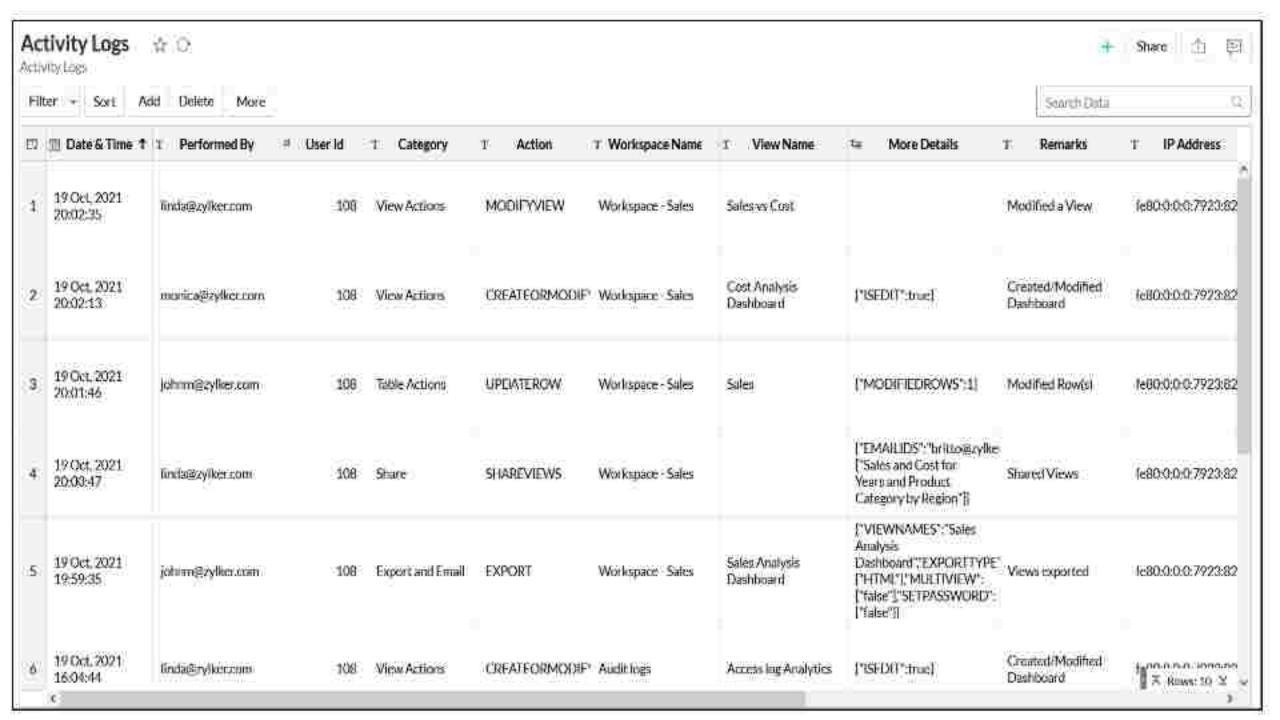
Oracle

Core Banking Solutions (Finacle)

Block Chain Technology

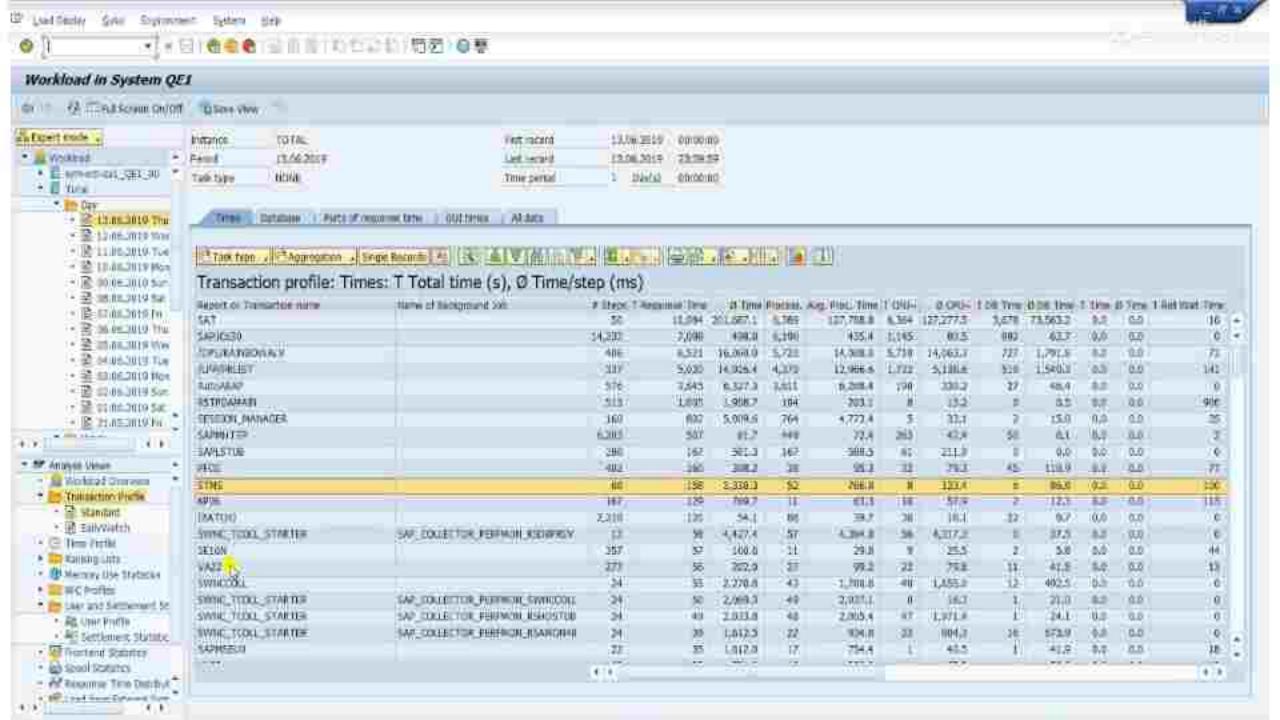
Robotic Process Automation

Artificial Intelligence and Machine Learning Tools



Differences Between Edit Log Versions

Ver	rsion : 5	Version : 6		
Activity : Resaved (No changes) Username : Admin	Date & Time : 10-Mar-22 9:34	Activity : Altered Username : Clinton	Date & Time : 10-Mar-22 15:30	
Particulars	Value	Particulars	Value	
Date	15-Apr-21	Date	16-Apr-21	
Bill of Lading Date	Constitution of the Consti	Bill of Lading Date	16-Apr-21	
GST registration type	Regular	GST registration type	Regular	
VAT Dealer Type	Regular	VAT Dealer Type	Regular	
State Name	-	State Name	Chandigarh	
Voucher type name	Sales	Voucher type name	Sales	
Narration	The item needs to be dispatched via Dombey Courier Services	Narration	The item needs to dispatched on 16-April -2021 through Dombey Courier Services to be delivered within 5 days.	
Country of Residence Party GSTIN Place of Supply	India	Country of Residence Party GSTIN Place of Supply	India 04AABCU9603R1ZV Chandigarh	
Party name	Circumfocution Brothers Limited	Party name	Circumlocution Brothers Limited	
Party ledger name	Circumlocation Brothers Limited	Party ledger name	Circumlocution Brothers Limited	
Party Mailing Name	Circumfocution Brothers Limited	Party Mailing Name	Circumfacution Brothers Limited	
Party Pincode	160022	Party Pincode	160022	
Consignee GSTIN	04AABCU9603R1ZV	Consignee GSTIN	04AABCU9603R1ZV	
Consignee Mailing Name	Circumfocution Brothers Limited	Consignee Mailing Name	Circumlocution Brothers Limited	
Consignee Pincode	160022	Consignee Pincode	160022	
Consignee State Name	Chandigarh	Consignee State Name	Chandigarh	
Voucher number	7	Voucher number	8	
Base party name	Circumfocution Brothers Limited	Base party name	Circumlocution Brothers Limited	
			110 1	



NATIONAL STRATEGY ON BLOCKCHAIN TECHNOLOGY TOWARDS ENABLING TRUSTED DIGITAL PLATFORMS- MINISTRY OF INFORMATION AND TECHNOLOGY

- Data and transactions stored in blocks of Blockchain are secured against tampering using cryptographic hash algorithms.
- Each block contains details of transactions, hash of the previous block, timestamp etc.
- It is difficult for an adversary to modify the stored details at majority points. Therefore, Blockchain provides better security when compared with a centralized system.

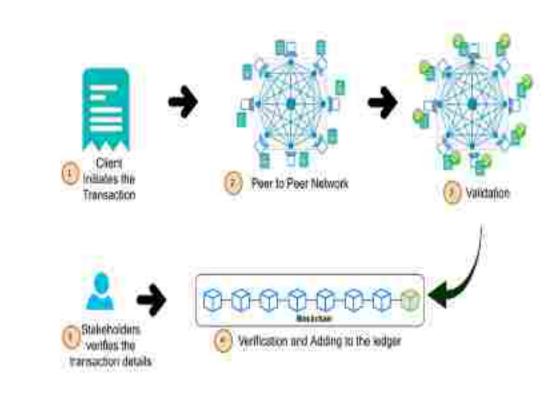
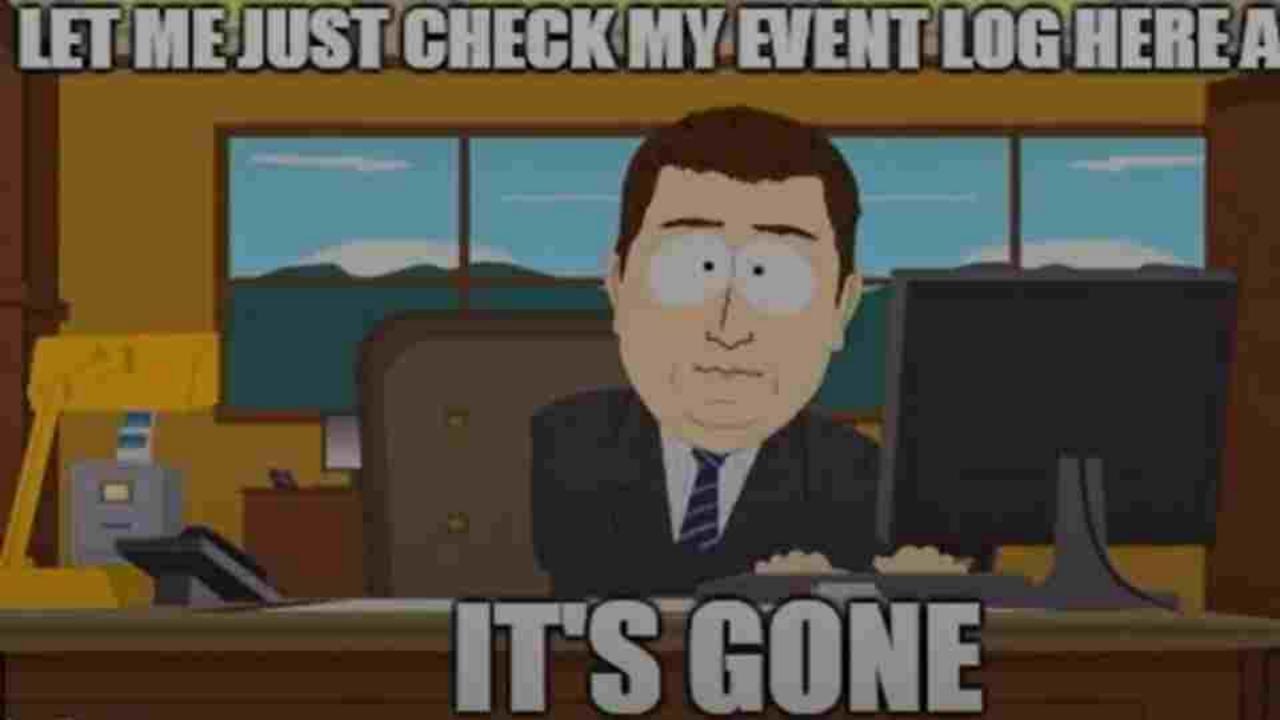


Figure 2.2 Blockchain Network and the Process of Adding New Transaction to Ledger

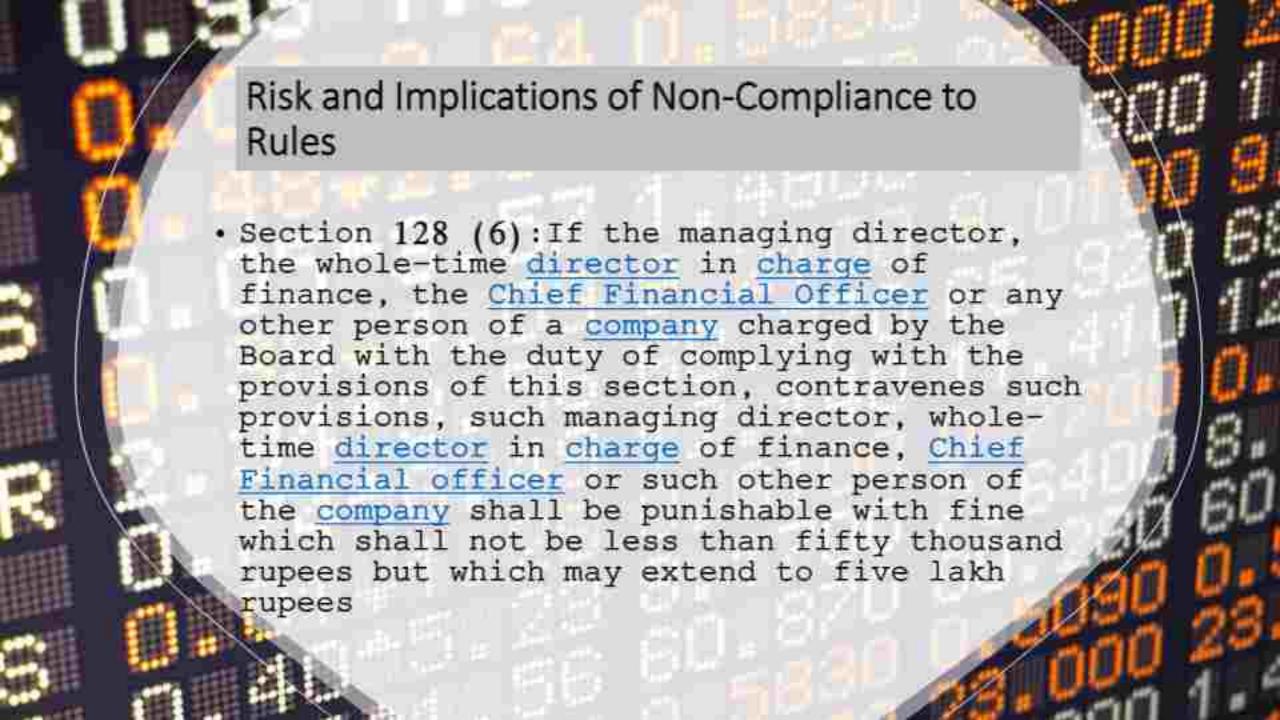
COMPANY AUDITOR REPORT ORDER 2020 Reporting IMPLICATIONS

- Whether the company is maintaining proper records showing full particulars, including quantitative details and situation of Property, Plant and Equipment; [Paragraph 3(i)(a)(A)]
- Whether the company is maintaining proper records showing full particulars of intangible assets; [Paragraph 3(i)(a)(B)
- Whether maintenance of cost records has been specified by the Central Government under sub-section (1) of section 148 of the Companies Act and whether such accounts and records have been so made and maintained; [Paragraph 3(vi)]



PRACTICAL CHALLENGES

- Multiple Source systems and interfaces connected to a core system may have an implementation issue from system design and IT Infrastructure
- The size of the audit log may breach a configured percentage of the allocated storage space (For instance If one Voucher is opened and saved 5 times it will increase data by 0.01 KB,if one single change done like narration it will increase storage by 0.03 MB)
- Challenge for several small-sized companies where the volume of transactions may be low.
- Anti forensic Tools are readily available to attackers and red team, or systems compromised with lack of end point security tools.
- Evidences of event logs manipulations is hard to find even in digital forensics.



THANK YOU

CA CISA TAHER A PEPERMINTWALA

Views expressed are personal and for educational purposes.

Slides have been prepared from open material available on internet and presenter acknowledges all open sources and is grateful

