

Cynopsis Solutions

Putting your data to work.

Cost effective solutions for Reporting and Governance.

For Financial Services Subsidiaries.

What we do

We provide customized data aggregation, controls monitoring and reporting solutions for financial services subsidiaries covering regulatory, statutory and management reporting across different business lines in a cost effective, appropriately scaled, highly scalable and fully bespoke manner.

Cynopsis Solutions

- Flexible Analytics
- MI Consolidation
- Flexible Reporting
- Controls Implementation, Trending and Tracking
- Unified data model using existing systems
- Risk data aggregation and data quality management
- Real time analytics and reporting
- Big data strategies for risk management
- Performance and scalability of the core technology

How We Add Value to You

We help you track and aggregate your data through your business processes to cut the costs of reporting, dramatically improve turnaround times and accuracy, reduce audit and governance overheads and shorten sales cycles, and improve the timeliness and proximity of alerts to actual issues in your business processes.

Our business analysts will be experienced in your industry and will work with you to map your processes end to end. An experienced consultant will then discuss your control objectives with you if needed. Only then will our technology teams build a solution that you can implement quickly to meet your obligations without modifying processes or having to incur expensive upfront costs.

Reports can be produced in almost any format for human or machine use, letting you use your data locally and also automating the preparation of regulatory filings or regular submissions to head-office or for automated upload into downstream systems.

Cynopsis Solutions also reinforce your operational infrastructure by:

- Tracking critical processes across systems, identifying problems from the bottom up and providing advance warnings of potential risks to the workflow.
- Monitoring SLA deliverables from external relationships and alerting for exceptions and breaches.
- Reporting on performance of processes and users in the work flow in an objective and consistent manner.
- Reconciling information across multiple systems and rapidly identifying and resolving breaks.
- Identifying and resolving data integrity issues in disparate systems.

Benefits of Cynopsis Solutions

Cost-effective, customized solutions for businesses to meet their data control, and reporting obligations:

- Data control and reporting times reduced dramatically
- Data extraction, aggregation and mapping from multiple legacy systems and non systematized or open sources
- Automated data validation and early detection, warning and resolution of errors. Fewer errors, fewer reruns and restatements, much lower impact costs.
- Aggregate data effortlessly across functions and lines of business, reconcile information sources and quickly identify and rectify inconsistencies.
- Automated systems with visible business logic allow easy ongoing compliance testing and audits, significantly reducing review burdens and management time spent on evidencing controls and data quality while minimizing intrusion to BAU.
- Adapt quickly as regulations are refined and flexibly adapt reporting to address multiple needs (S2 and IFRS I)
- Completely flexible reporting frequency for uses such as producing advance reports for planning or to integrate regulatory metrics in management dashboards.
- Track processes real time, quickly identify bottlenecks, and streamline, de-risk and optimize workflows. Streamline, Derisk, and Optimize workflows.
- Maintain data ownership, data security, and integrity across open systems.
- Standardize controls across lines of business

Pricing Model That Makes Sense for subsidiaries facing multiple regulators

We provide only what you need. As each solution is mapped to your unique processes you don't pay the overhead for a large product and unnecessary functions.

We produce a process map and you try the system for free. You only move to a purchase if you think it is worth keeping. The risk of take-on is significantly lower than with a large build-out.

You pay us per report or process monitored, at a fraction of the cost of a full system. We provide ongoing maintenance and updates as the technology and your business logic and processes evolve.

Cynopsis solutions are inexpensive to implement and can both easily fit into an enterprise wide data warehousing model, or seamlessly transition into one once set up.

The Process of Implementation

Cynopsis teams will help

- Analyze and map existing reports and processes across transactions, operations, ledgers, accounts, and systems.
- Identify gaps, bottlenecks and key risks in the process in consultation with stakeholders.
- Define new controls or workflow modifications to streamline or close gaps,
- Develop automated controls & reporting solutions using existing data.
- Develop an implementation plan for setting up, validating and testing the solution
- Deploy the solution within your infrastructure
- Operate the solution on an ongoing basis
- Optimize the solution for your changing requirements

Technology Platform

Cynopsis gathers your data using our technology platform from almost any data format and combines it into an operational data store. All processing takes place on Cynopsis' dedicated servers reducing the processing load and eliminating any risk of impacting your core systems.

Cynopsis technology operates in two configurations single-node and multi-node. Single node systems are adequate for most processes, and for small and medium sized businesses a single server will suffice for multiple processes. Our single node systems operate on extremely stable Debian Linux servers, and use PostgreSQL as the main database engine due to its exceptional reliability and the fine grained security associated with its client server architecture. (See appendices for technical specifications).

Multi-node systems are deployed on Hadoop and we would recommend continuing to use Postgres and RDBMS but will deploy MongoDB if a NoSQL implementation is desired. Multi-node systems would only be deployed for extremely high volume data processes with complex business logic and in most cases we would add new sharded servers for distinct processes feeding off the same operational data store.

The data-base configuration is set up as a normalized operational data store that feeds a standard de-normalized star schema data warehouse. Both databases are optimized according to the particular data structure of your firm.

Python and Java as main programming languages. All controls and tests are easily viewable. Business logic is human readable and directly and quickly viewed by audit and compliance as part of your data quality obligations under SII or B3.

A web-based dashboard allows real time monitoring of controls by managers of key processes and alerts will provide early warning of any problems in any material process flow.

Access Multiple Databases – Existing technology

Cynopsis can work with almost any data format, the list below isn't exhaustive but intended to give a sense of where we can collect your data from. Where easy formatted inputs aren't available we help design secure XML based forms to feed into your existing systems

XML & JSON

- XML Files and variants
- SWIFT Messages
- Euroclear
- OMGEO
- DTCC/Firefly/UNIX
- All ISO 20022 Specifications
- JSON Financial Data – Bloomberg
- JSON Financial Data – Web
- Reuters OMM and RWF

Desk Data & Formatted Text

- MS Excel and @Risk
- MS Word – Formatted or Tagged
- Formatted Emails
- MS Sharepoint content

Databases

- DB2
- Firebird
- Informix
- Ingres
- Oracle
- PostgreSQL
- SAP DB
- Microsoft SQL Server
- Microsoft Access
- MongoDB/CouchDB
- Sybase
- Asql/SQLite/ThinkSQL
- Metakit
- BerkleyDB

Systems

- Accounting Systems (eg Cognos TM1/Sage)
- CRMs (e.g. Salesforce.com, NetSuite, iContact)
- Portfolio systems (Sungard/PAM/Aladdin/Eagle)
- IBOR/ABOR systems (eg Multifonds/Advent)
- Actuarial Systems (eg Prophet, PTS, Axis, Alfa)

Data Integrity, Security and Credentials Management

Row Level Security allows managers to limit access to individual processes and process points as well as time periods.

Full transaction logging provides an ongoing record of all key steps in all critical processes.

Can be integrated into existing authentication processes to provide ease of access to users.

User management feeds of existing HR systems, set up permissions and you're done.

All data and Cynopsis Servers sit within your firewall. Even we cant see your data except in your premises and under supervision. All data access by Cynopsis personnel is pre-permissioned, logged and reported regularly.

Offsite backups can be made as part of your existing tapes, or can be managed by Cynopsis.

Sealed copies of business logic code are held by Cynopsis, permitting rapid restart even in the case of catastrophic failures.

All engagements, your business logic and data are covered by corporate and individual NDA's and will never be shared with anyone we have not been explicitly instructed to share it with.

All our technology components are very well established, with many millions of hours of intensive use, and are selected primarily to ensure failure risk is extremely low.

Extensive logging permits rollback at a transaction, timepoint or system level while duplicated asynchronous servers on-site significantly limit the impact of point failures and

High performance RAID 3 drives and duplicate asynchronous servers onsite mitigate the risk of hardware failures. Hardware can simply be slotted out and fsynced back into line.

Business Logic and Rules Engine

Human readable coding.

Standardized code for equivalent tests.

Common process and platform across all business lines ensures consistency.

Fully logged control and reporting algorithms make auditing easy.

Checks for completeness in documentation.

Reasonableness and trend algorithms for data quality checks significantly cut errors.

Consistency checks among different systems and processes provide early warnings of errors and book-of-record system synchronizes to a single agreed data set that tracks the operational data store and data warehouse.

Solvency II – Pillar 3 Reporting

Regardless of your stage of readiness for Solvency II, Cynopsis Solutions can assist with your Pillar 3 needs.

- From embedding data governance controls, and documenting end to end processes to ensure complete and accurate data for internal models and regulatory reporting to
- Aggregating trend data to test for materiality when making choices of controls
- The aggregation of information and the automated application of business logic to produce Quantitative Reporting Templates (QRT)
- Shortening reporting time-lines to meet Solvency II deadlines.
- Reconciling data between financial and management data systems and Pillar 3 reports to materially reduce errors.
- Production of Regular Supervisory Reports (RSR) and Solvency and Financial Condition Reports (SFCRs)
- Reconciling QRT/RSR/SFCR reports to ensure consistency.
- Embedding process controls that provide early warning of out of tolerance conditions on solvency components on a real time basis.
- Flexibly to adapt reports as regulatory requirements are finalized
- Producing XBRL format outputs for head office use
- IFRS 4, 9 and IFRS Phase II Readiness – cross application of data from operational store.
- Identification and application of cross pillar data synergies

ORSA Guidelines Reporting

- Automating ORSA data gathering as part of BAU assessment
- Generating trend information and control MI to evidence forward looking assessments
- External Reporting
- Significantly shortened time-lines for risk aggregation and reporting
- Monitoring of risks against appetite at a fine grained level.
- Gathering of risk data at a fund level to help evidence proportionality and materiality of risks
- Evidence to support diversification benefit adjustments
- Clearly auditable logs of activity, monitoring and business logic including production of virtual machine sandboxes for scenario testing or real time evidence of controls triggers in live environment.
- Real time tracking of material risks and availability in management reports to assist in decision making and proactive management of risk against capital.
- Fine grained access control and data security support single points of ownership for key risks and assist owners in tracking the status and change in risk levels.

IFRS 4, 9 & IFRS Phase 2

The IASB's standard objectives are to ensure "high-quality, understandable, enforceable and globally accepted principles which will improve transparency and comparability of insurers financial statements regardless of sector, geography or products"

- Easy application of new standards for evaluating insurance contracts.
- Validation of evaluation of Best Estimate Liabilities and Technical Provisions.
- Re-testing and automated re-run of statistical models, and early alerts of material changes in financial position or SCR.
- At source classification of contracts into specified non-life and life clusters.
- Automated and iterative process for calculating SCR.
- Simple process for evaluating changes in risk or 99.5% confidence levels for key risks at a fine grained level, without placing burdens on processing power or requiring investment in expensive new systems.
- Be prepared for the shift from Solvency II firm level diversification to IFRS portfolio level diversification. Easily see differences between IFRS I, Solvency II and IFRS II books and prepare multiple books from same core data in a timely, consistent and accurate way.
- Easily accommodate different input assumptions for S II and P II estimations.
- Easily isolate and track incremental acquisition costs at a portfolio level and identify overheads for ongoing maintenance associated with contracts for IFRS Phase 2 reporting.
- Logged data collection provides rich, timely, verifiable data-set to test and extrapolate assumptions on customer satisfaction, and financial market sensitivity as well as supporting evidence for established assumptions.
- Test and validate "expert judgement" assumptions and findings as experience is gained. Use data from operational data store to evidence objectivity, verifiability of assumptions and valuations and

Sarbanes Oxley Reporting

- Section 404 ICOFR
- Document, Evaluate, Improve controls over financial reporting to support executive certification, reduce certification times and improve the effectiveness of certifications.
- Evidence data quality tests around financial controls
- Isolate and address any material weaknesses in control infrastructure.
- Reduce time and effort to test control design effectiveness throughout the firm, and for critical processes.
- Incorporate tests of materiality in control framework and quickly identify items that may require disclosure to address or escalate.
- Produce timely, frequent reports of variations and fluctuations in critical operations and business lines for management to review and to support disclosure identification

Basel III – Pillar 2 reporting

- Gather information from multiple front office, credit and treasury systems as well as local branches to view up to the minute liquid asset and risk asset positions.
- Automatically calculate and monitor Liquidity Coverage Ratio (LCR) and Net Stable Funding Ratio (NSFR) positions consistently based on your business logic.
- Track branch and country level profitability, relationship marketing, regulatory compliance, risk management and integrate views across customers and functions to generate stronger cross sale leads and improve revenues.
- Automatically produce real-time views of CVA based on source data on OTC transactions from custody systems.
- Evidence data management and governance controls required by Basle III regulations
- Aggregate Effective Expected Positive Exposure to counterparties in a timely, consistent and accurate way using up to the minute financial information and rapidly identify and address potential capital challenges.
- Verify and validate internal models. Support wrong way risk calculations to track exposures against POD calculations for specific counter-parties, track counter-party relationships and ultimate parent relationships without major rework to your existing systems
- Monitor Policies, processes and systems to ensure the identification, measurement, management, approval and internal reporting of CCR
- Out-of-the-box features and functions for: (1) CVA (2) Liquidity Risk Calculations (3) Counter-party Credit Risk calculations (4) Regulatory Capital Calculations (5) Stress testing (6) Reporting

Economic Capital Tracking

- Generate insurance fund level as well as company level capital coverage ratios.
- Generate business line level capital usage data and the ability to do fine grained reviews of capital use.
- Use a single, easily viewed and audited business logic for capital calculations throughout your firm, ensuring consistency.
- Real time early warnings of breaches of internal capital thresholds at a product and fund level allow rapid management intervention.
- Ability to understand sources of diversification allow managers to optimize capital use and make choices on whether to maximize new revenues, NBV or marginal distributable profit for a given level of capital.

Client Reporting

Cynopsis Solutions allow you to

- Aggregate data and automate production of KIID's for UCITS IV reporting
- Aggregation, validation and production of regular account statements, invoices and regular reports.
- Automated ad-hoc update and closure reports for claims.
- Error checking and validation of all client reports, not sampled data.
- Completeness checks, reasonableness tests, business logic comparisons and trend reviews capture problems quickly and significantly reduce errors and increase client satisfaction.
- Single standard report reduces time to adapt to changing regulation.
- Automated reporting systems permit aggregated client reporting for multiple products, cutting reporting costs and resulting in happier clients.
- Automated broadcast of electronic reports ensures on-time delivery, cuts employee workload, reduces errors, quickly identifies stale data in customer databases and rapidly alerts client service teams to rectify.

Sales Flow Tracking

- Tightly integrate with CRM systems to track trends in sales at a product, agent, or case basis.
- Quickly identify delays or bottlenecks in the sales process and determine root causes for correction.
- Rapidly identify data quality issues in CRM systems and correct at source.
- Employ metadata analysis to give management the information they need to make quick choices on resourcing and product focus.
- Quickly identify areas of strength and weakness in delivery against KPIs for external distribution partners.
- Provide fine grained information to allow more targeted campaigns with and more actionable conversations with external distribution partners.

Client On-boarding, KYC & AML

- Rebuild your case forms as apps for iPads, iPhones and Android devices.
- Re-use case data rather than re-inputting each time. Significantly reduce agents time spent filling forms and increase sales productivity.
- Stronger demographic analysis allows more targeted sales process, increased lead generation and higher cross sales.
- Completeness checks for KYC and AML questionnaires for every client, not just samples significantly reduces the risk of regulatory breach.
- Automatic checks for FATCA reviews for each case.
- Support for and completeness checks of your CIP/CPP cover for all clients.
- Data aggregation and testing for monitoring of suspicious transaction behavior.

Claims Monitoring and Reporting

- Automated tracking and monitoring of claims from initiation through acknowledgment, investigation, adjudication and closure.
- Aggregated reports for management to track claims status and aging of claims through the life cycle.
- Automated acknowledgment emails sent to claimants.
- Check completeness of claim supporting information and automatically send return requests for missing information and follow-ups.
- Automating control points and automated message creation materially reduce late and incorrect communication.
- Reduce processing costs and improve claims processing productivity by allowing teams to focus on non-standard claims and reducing the load for standard claims.
- Reduce claims leakage by rapidly and automatically identifying non-standard claims using reasonableness and trend checks against client profiles.

Complaints Monitoring, Tracking and Reporting

- Log and maintain complaints data for regulatory reporting.
- Track complaints resolution at a fine grained level through the life-cycle and against indicated resolution times. Get early warnings of bottlenecks and address problems early to meet deadlines and improve customer satisfaction.
- Quickly identify and escalate problem cases to appropriate levels of authority to address issues.
- See real time information on complaint resolution and trends on open complaints and closure rates and times down to individual levels to improve productivity.
- See real time information on complaints by product, business line, process stage, location or nature of the complaint to quickly identify, analyze and resolve systemic problems.

Data Analytics and Data Mining

Cynopsis Solutions multifaceted approach to data quality ensures that you can conduct useful analysis with your data.

At an enterprise level, what drives customer decisions or employee behavior is poorly understood and difficult to test.

Knowing what products a customer is likely to need, who will make a families purchase decision, when that decision is imminent and what approach they will respond best to, will all increase your sales fulfillment and increase productivity.

At the same time, understanding what levels of complexity and change can be borne by departments, individuals and systems and what types of activities each cluster is most relatively productive and what adjacent activities those clusters are likely to be good at allows you to put the right people in well designed processes and improve effectiveness and morale while keeping costs down.

These are just some examples of how mining the data in your data warehouse might help improve your business.

Whether you are looking at profiling customers and creating customer clusters or identifying persistent or recurring issues that specific processes or practices may be causing to impact your business' productivity our suite of tools provide pattern identification, cluster analysis, anomaly detection and association rule mining, classification and testing and visualization and summarization capabilities while our industry experts will work with you to ensure that any findings remain relevant.

Sales Campaign Monitoring and Tracking

- Customer profiling and trend analysis allow richer lead generation across the client pool
- Greater information on clients allows deeper ownership of customers. Aggregation and mapping of multiple information sources on customers using Cynopsis Solutions data mining tools allow much richer customer data gathering even on hard to access customers brought in from external sources.
- Improved segmentation and clustering of customers allows improved sales forecasting and more effective product design and modification.
- Rapidly identify and bring together customer groups to test product features before launching expensive campaigns
- Reduce administrative lag on sales with improved targeting and pre-filled forms for existing leads.

Billing Reports – Production and Validation

- Produce timely and accurate billing reports
- Validation and automated checking of billing amounts against business logic and reconciliation with finance and sales systems
- Reasonableness checks and trend checks to capture and flag any unusual trends.
- All billing statements checked, not sampled.
- Full records maintained for audit and compliance teams.
- All information verified against primary data for financial and regulatory reporting.
- Billing function controls are SOX compliant. Automatically generate control execution reports for finance executive and auditors.
- Rapidly identify and correct bottlenecks in the billing process

Operational risk aggregation and automation of reporting

- Simplify gathering, mapping, aggregation and calculation of objective key risk indicators. Deploy at critical risk points to ensure a cost effective control environment.
- More detailed reporting of operational processes in a manageable format for Solvency, Basle or SOX reporting.
- Tie together compliance, risk, audit and front office governance programs into a single framework assessing operational risk, anticipating and identifying anomalies and delivering in a usable format for managers and enterprise risk systems.
- Automated and constant review of risk measures identified as part of SOC or ORSA monitoring programs and early warning of any issues.
- Easily evidence risk assessments and risk reporting as part of control framework.
- Minimize operational risk and limit its application in self assessments of risk for capital calculations.
- Continuously validate financial reports, processes, reconcile operational data across systems and against business rules, track transaction timing and ensure that process steps are followed, validate data flow in transactions and reports, and authenticate data in repositories, quickly identifying errors of missing, duplicated and out of sequence data.
- Fully logged and easily verifiable audit trail for all transactions.

Calendaring and Follow Up Functions – Improve human delivery

- Easily assign single points of ownership to tasks, controls and processes.
- Simply tag action items (e.g. regular attestations, evidence transmission, response to issues) against regular schedules and previously identified control events.
- Set up escalation triggers and points for supervisors through the enterprise.
- Send updates as automatic calendar invites and emails that integrate with your businesses existing calendar and appointments app.

Real Time Monitoring

- Always open, redundant and pluggable the Cynopsis Solutions control monitoring and reporting framework is up when you are.
- Any tolerance breaches, hard or soft are quickly flagged allowing your staff to respond ahead of serious problems emerging that might oblige painful conversations with managers, board members, regulators or shareholders.
- All aggregated data goes from the operational store into the warehouse, allowing your teams to perform effective post mortem lessons learnt reviews and strengthen response guidelines for issues.
- Extremely flexible, you set the importance of controls and the priority you want assigned to issues and Cynopsis Solutions will take care of the queuing and escalation automatically.
- Auditors and compliance teams can track the system in real time as well as see full histories of all transactions and control events. Making for faster and less intrusive reviews.
- Board reporting and MI becomes an automated and effortless task, incident tracking and reporting is simplified and the incidence of errors is reduced.

Cash Monitoring, Reconciliation and Exception Reporting

- Gather cash-flow information on receivables, billing, payables at each stage in the system.
- Easily reconcile between systems and quickly flag and address issues before they become client or vendor facing.
- Increase response times and rapidly redeploy resources to slow to settle transactions
- Constant and full validation of transactions through the clearing process
- Easily produce accurate SoD/EoD cash positions and accurate cash reporting for treasury and investment teams.
- Significantly reduce false reconciliation breaks and reduce time and effort spent on cash reconciliation.

Payment Process Tracking and Reporting

- Reduce payment errors and automate payment validation.
- Ensure that cash positions are reliable and cash systems have timely payments data.
- Track payments across multiple approval stages, through multiple systems for example Accounts receivable, General Ledger, Billing, Customer Data.
- Know overall position at each stage of the payment cycle, ... <more>

End of period financial accounts and reports generation

- Speed your financial close process by automating the steps to balance, reconcile and verify your accounts.
- Independent validation of transaction flow ensures robust segregation of duties.
- Early identification of exceptions, strong testing to avoid false positives, targeted alerts to resolve mismatches quickly.
- Full audit trail allows quick diagnosis and resolution of exceptions.
- Balance and reconcile all balance sheet accounts against source systems.
- See on demand local financial statements when needed.
- Quickly produce trend and ratio analyses to support management presentations and strengthen the planning and budgeting process

General Ledger and sub-ledger Error Tracking & Reports

- Real time and comprehensive testing quickly identifies and reduces errors in general ledger.
- Upstream tests address issues before they are posted to the general ledger.
- Quickly reconcile detailed postings between sub-ledgers, general ledger and source systems
- Rapidly identify and resolve ledger discrepancies
- Quickly check individual and aggregate ledger items against control rules and flag exceptions.
- Improve financial controls and data integrity by quickly identifying anomalous or related patterns in ledger items.
- Easily evidence financial reporting controls for SOC 1 reporting.

Financial accounts automated reconciliation reports

- Identify exceptions in reconciliations in real time
- Reconcile and balance all general ledger and account information against source data systems
- Reduce the number of exceptions by addressing discrepancies early.
- Gather data from multiple systems and use intelligent polling to correct false exceptions automatically
- Source data controls and automated movement of data between systems and from the data warehouse reduces the absolute number of discrepancies further reducing times to close.

Derivatives Trade Reporting

- Gather all the primary information from custodian and counter-party confirmations seamlessly for DTCC reporting.
- Automatically reconcile own filing and counter-party fills against primary ABOR and IBOR data.
- Code your own rules to manage cross border transactions and cover movements between EMIR/MIFIR, Dodd-Frank and local governance regions.
- Full completeness and reasonableness checks help flag any issues early.
- Summary EOD checks streamline compliance review.

SAS 70/SOC 1,2 & 3 Readiness

- Transaction classes, processing procedures are mapped as part of financial reporting review.
- Reconcile transactions and accounting records with source systems and automate reporting.
- Exception management and handling of non transaction events is codified, alerts and where possible responses are automated, in an easily audited fashion.
- All procedures and business logic is human readable.
- Generate user reports accurately, consistently, reliably, on time, every time.
- Fine grained logical access control evidences ownership and activity for each process and action owner. Clearly establish and evidence read access controls and maintain the confidentiality of your data.
- All hardware and processes are tested and testable real-time against your IT security, availability and business continuity policies to ensure compliance.
- All Cynopsis Solutions implementations are designed to be implemented below change control thresholds, with minimum intrusion and impact on client systems. Cynopsis Solutions enhance and don't impede SOC certifications.
- Automatically check and evidence review of performance of subordinate providers against KRIs and KPIs
- Generate Type 1 (point in time) and Type 2 (periodic) reports on demand and at the press of a button

Audit Support

- Auditors will want to test a number of areas of your business processes and IT infrastructure.
- Auditors are typically concerned with testing and verifying the operational integrity of automated processes, the validity of business logic, and ensuring adequate accounting for and control of access to assets and their use of assets and data.
- Auditors typically have problems mapping audit objectives onto the technology framework.
- Cynopsis Solutions controls and process maps provide a well formed framework through which auditors can easily validate existing controls at work, and can also test for specific events as well as reviewing the business' logic in a non intrusive way.
- The result is quicker audits, and greater confidence from group planners on the risk and control framework of the business.

Data Quality – From data to useful information.

Poor data quality can cost up to 8-12% of revenues for a typical organization. Bad information can result in customer dissatisfaction, increased operational costs, reduced effectiveness of decision making and a diminished ability to execute strategy. Bad data breeds organizational mistrust and makes it hard to align your enterprise.

Cynopsis solutions implements algorithmic tests to cover multiple facets of data quality. In particular we test for each of the following aspects of your data at the extraction, aggregation and output generation stages of delivery.

- **Depth:** Relevance, Granularity and Level of detail
- **Value:** Accuracy, Redundancy, Consistency, Timeliness and Completeness
- **Accessibility:** Availability, Format and Presentation
- **Control:** Privacy, Security and Ownership

Scalability

- Cynopsis Solutions are designed for subsidiaries of financial services multinationals.
- The technology is built with redundancy and growth in mind. It is easily scalable to multiple servers and petabytes of data in massively parallel systems if required.
- The operational data store and an in memory database are both used to keep latency low and data accessibility blazingly fast.
- As we use a customized solution, the system evolves with your business logic. As your needs change the system will adapt and grow with you. You won't have to worry about a lack of freedom to change your database schema, our star schema will grow as your business growth asks more of it.
- Equally Cynopsis Solutions can be used as a tactical stop-gap, allowing businesses to meet regulatory and organizational risk requirements while more structured enterprise wide solutions are implemented.
- Cynopsis Solutions can also be used as a middleware component, allowing you to automate the gathering of data from local systems and the preparation of templates that can be fed into global databases with limited effort and additional investment in resources.
- Automated data gathering from source systems mean that you don't have to worry about crossing borders to do business any more. Review the differences in regulation once and we'll code it into the systems for you. Satisfying multiple regulators need no longer constrain your business

Conclusion