

Customer Centric Data Provisioning

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We provide a wide range of Data Transformation Services ...

Data Integration:

Providing the capability to transform incoming, disparate data sources to integrate at runtime with the target system

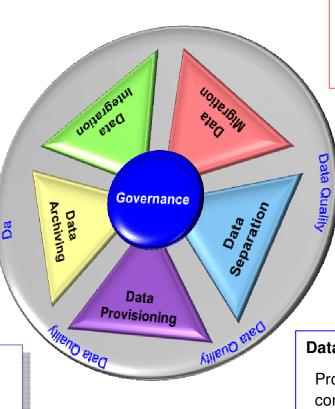
Data Archiving:

Providing the process to support decommissioning initiatives through the secure retention and disposal of data in line with regulatory requirements

Data Provisioning:

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Providing compliant, right-sized test and training environments through sub-setting and desensitisation functionality



Data Migration:

Providing one-off data migrations to support strategic movement of data to a different platform

Data Separation:

Providing the capability to decouple data, logically and physically, often to support a divestment, migration or integration initiative

Data Quality:

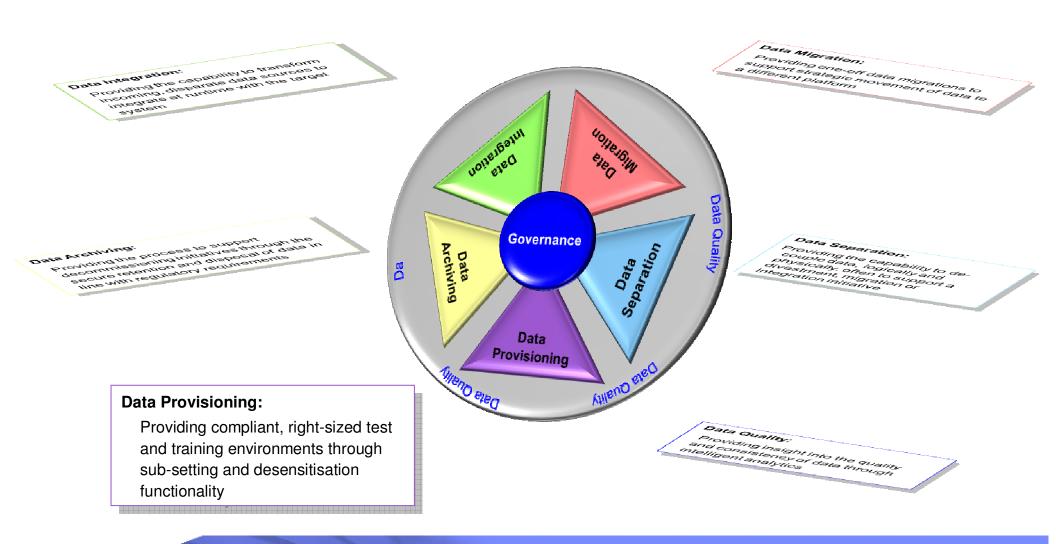
Data

Providing insight into the quality and consistency of data through intelligent analytics enabling appropriate interventions to address material issues

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Today we focus on Data Provisioning ...

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The Business Challenges

Our Data Provisioning Solution

Our Commercial Approach

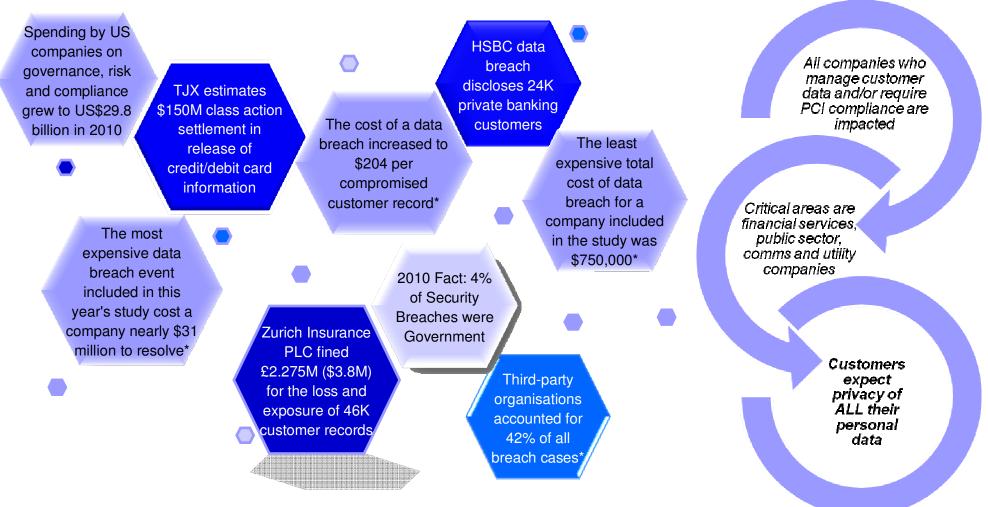
Extending the Service

Why IBM?



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The price of mismanaging data is high ...



* U.S. Cost of a Data Breach Study, Ponemon Institute January 2012

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IEM

... resulting in three areas of focus

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Companies need to address three objectives when considering their use of data:





However data provisioning isn't easy ...

These are typical challenges that companies struggle to overcome:

- · Costs of delivering test data to test environments are significant
- · Provision of test data is not fit-for-purpose
- Difficult to deliver consistent desensitised data to support testing especially to support old legacy mainframe applications
- Too much reliance on business SMEs to provide the information necessary
- No standard approach or team in place to deliver secure test data for project and BAU activities
- · Different approaches to mainframe/relational environments



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What options can be considered?

There are a number of options to addressing these challenges



Lock-Down Environment

- Extremely Costly
- Difficult to Scale

Test

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- Challenging to Govern
- Slow to react to requirement changes

Strategic Solution

- A combination of: robust solution and factory style delivery
- End-to-end service
- Robust, compliant solution
- Changes data repeatably and intelligently based on content
- Produces right sized environments to optimise infrastructure
- Reusable Assets
- Fixed, Unit Pricing
- Cheaper the more you use



Clone

Production Clone

- Not PCI compliant
- Significant risk of data loss
- Heavy on storage
- Access conflict for users



- Adds risk of technical test failures
- Data or structure changes may invalidate testing
- Labour intensive
- Heavy on SME resource

Resulting in our strategic factory-based solution

Recognising these challenges, IBM developed a service offering utilising a combination of leading IBM software products, services and global delivery resourcing to provide an end-to-end solution from data identification to delivering desensitised data; sub-setted if required

The factory approach achieved **economies of scale**, typically **reducing costs** by **40-50%** and delivery by months compared to previous isolated solution. Our commercial model supports **fixed**, **utility-based pricing**

The **sophisticated** nature of the data desensitisation and sub-setting means the test community can use the data **late** into the test lifecycle and achieve earlier defect identification

The fallout assets that are created provide a platform for further data quality, separation and archiving initiatives

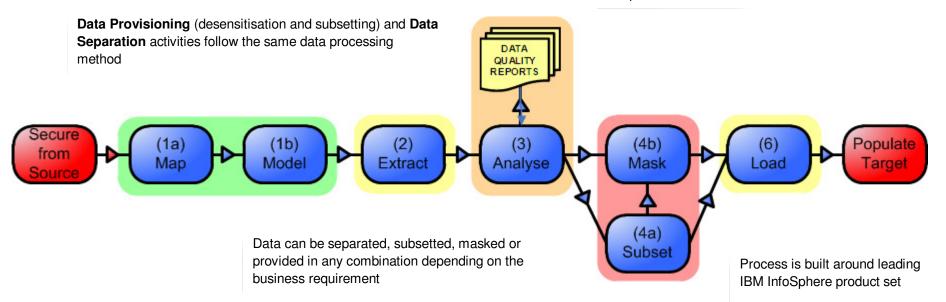


Data Provisioning – Our end-to-end methodology

- Protecting Customer Data
- Enabling Regulatory Compliance
- Reducing Cost of Delivery

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Data Quality reports are natural outputs of the process





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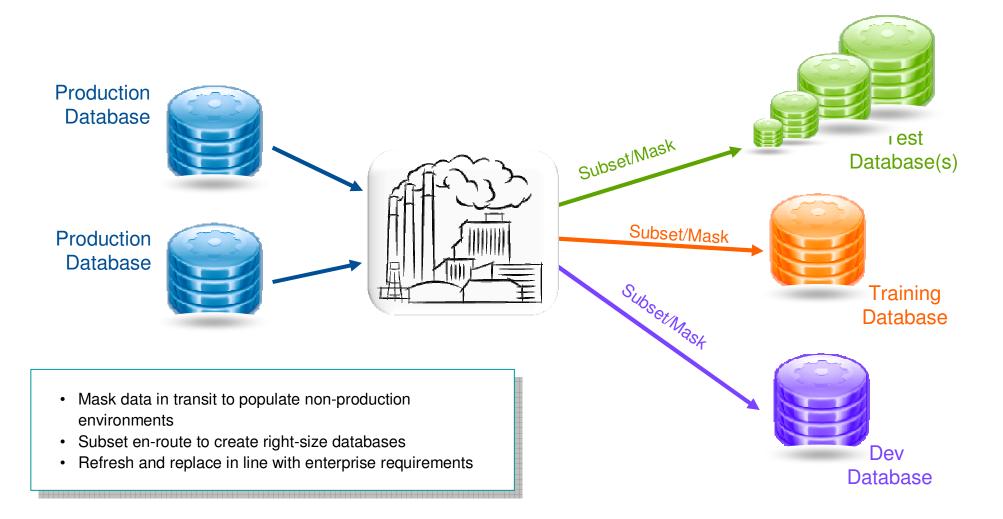
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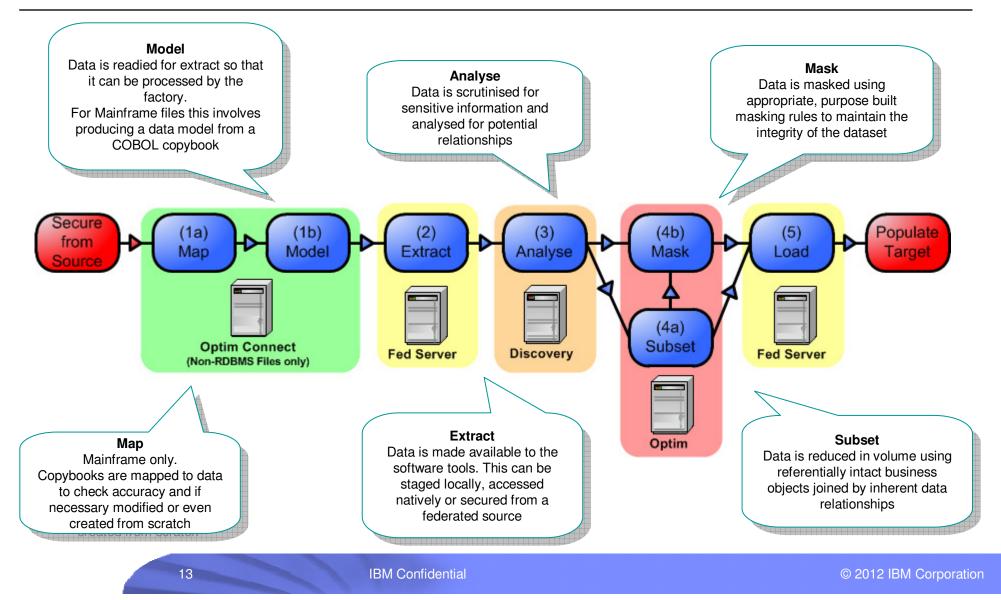


Our strategic factory solution

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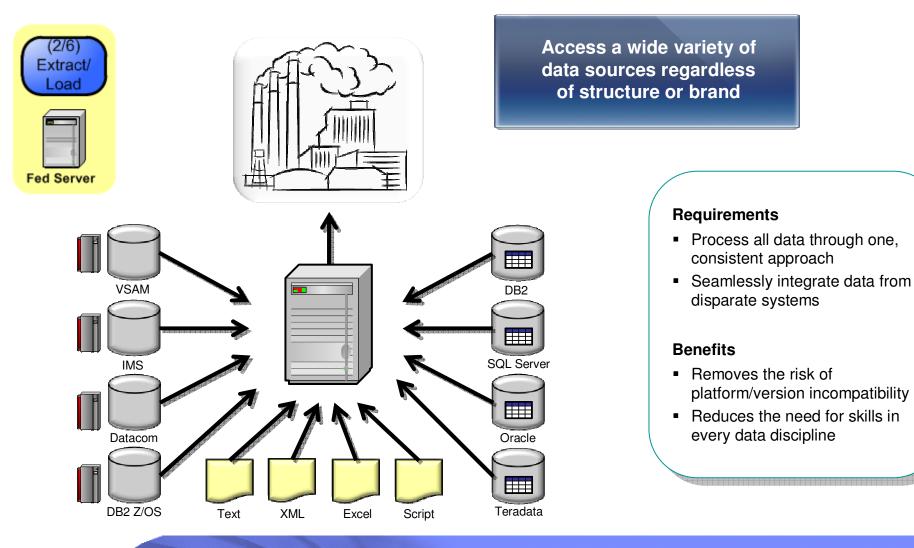


We utilise our purpose built methodology and toolsets





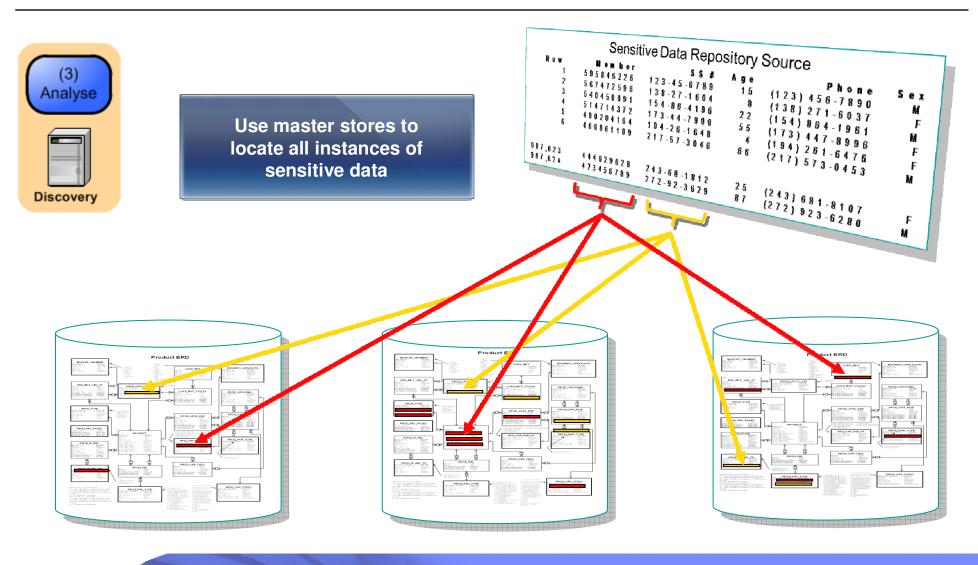
2&6 Data Extract and Load – Single access point for all data



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3 Data Analysis – Discovering the sensitive data



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4 Data Masking – Changing the sensitive data



Mask sensitive information with realistic but *fictional* data for testing & development purposes

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Requirements

- Protect confidential data used in test, training & development systems
- Implement proven data masking techniques
- Support compliance with privacy regulations

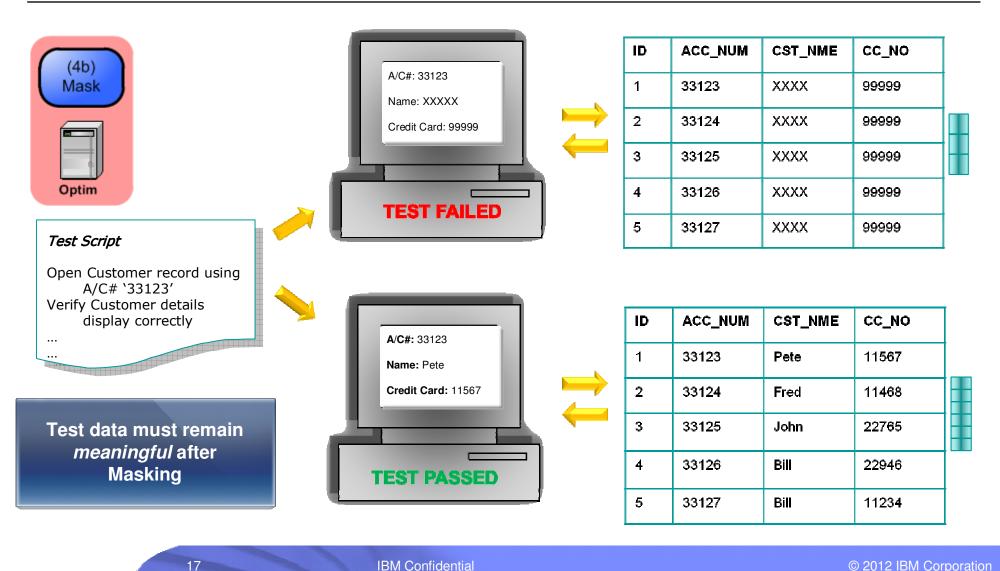
Benefits

- Protect sensitive information from misuse and fraud
- Prevent data breaches and associated fines
- Achieve better data governance

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4 Data Masking – Changing the data to meet business needs





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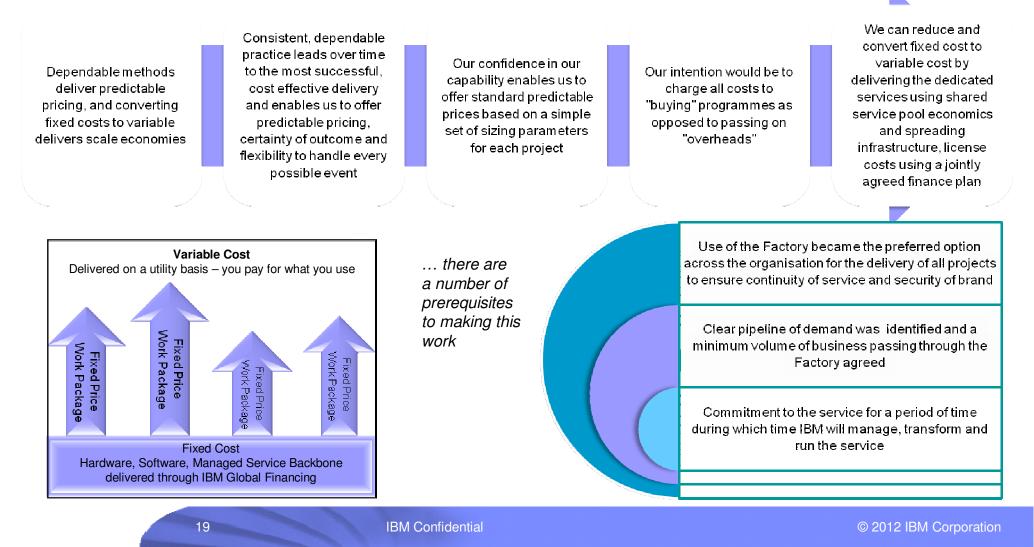
Why IBM?





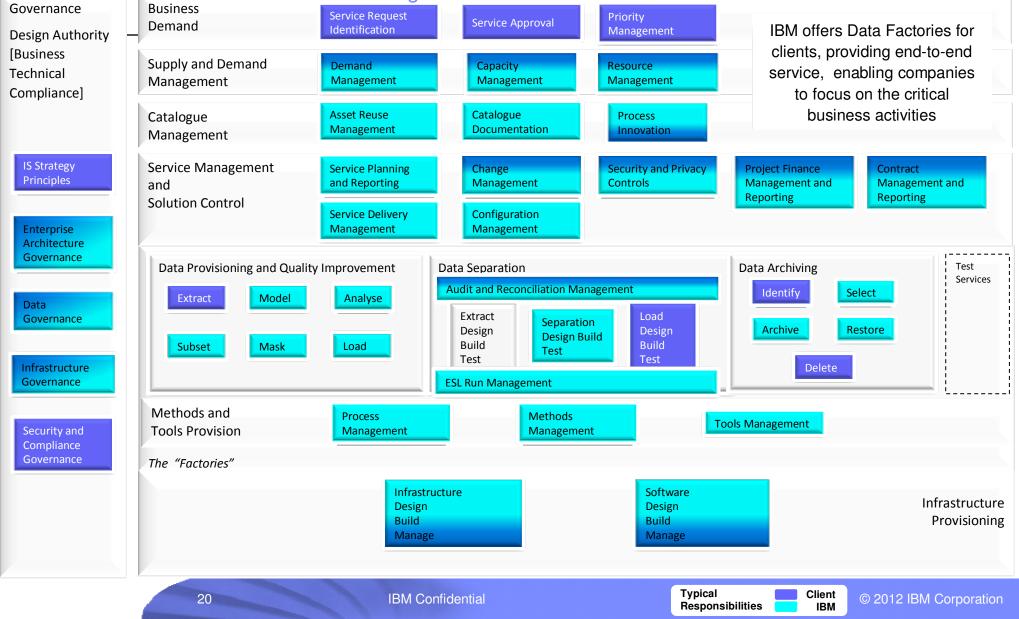
Our commercial approach was adaptable to meet specific needs

The major principles on which our approach is based ...





Our Data Provisioning Factory is delivered following the consistent, proven design principles of all our Data Services Factories and is forming the basis for other Data Factories





Data Provisioning – We have a simple approach to pricing ...

	Data Desensitisation		Data Subsetting	
	New to Service	Refresh of Data-cut	New to Service	Refresh of Data-cut
Database	£A per table	£B per table	£C per table	£D per table
Mainframe (Flat File)	£Eper file	£Fper file	£G per file	£H per file

- This provides a simple, repeatable and predictable pricing mechanism for all project requirements
- All Factory costs (fixed and variable) can be allocated following these principles
- Software and hardware costs can be allocated to this process (through the support of IBM Global Financing)
- As part of our service management process introduction we implement this approach and charge-back mechanism to projects
- For mainframe files this could include the production of the copybooks if not currently available
- Over time, the model is able to simplify further into a "catalogue" approach

So how did we go about establishing the service?

- We proposed a 4-6 week definition phase where we jointly determined the model for the service this would be preceded by 1-2 weeks of pre-mobilisation activities to confirm scope and client involvement
- The resulting deliverable was a detailed definition of the service proposed and a clear implementation plan
- Communication required active and visible senior sponsorship this is a significant change and must be managed and supported as such
- · We naturally look to reuse any deliverables which are pre-existing in this area to avoid duplicated effort and potential discontinuity

Realisation					
Pre-Mobilisation	Definition	Implementation and Transition	Delivery		
 Confirm scope of potential managed service Agree client and third party involvement Confirm project approach Plan meetings and data gathering process Communication to appropriate parties Confirmation point: Agree definition phase 	 Produce operating model and technical design Determine responsibilities Identify project pipeline Create implementation plan Establish financial model Agree appropriate contractual arrangements Review point 1: Confirm vision, value proposition, business model, imperatives and detailed scope of the future corrier 	 Establish governance model Acquire resources Define and implement factory processes Review technology and implement/ migrate as appropriate Educate external community in services and offerings Review point 2: Confirm transition completed and approve move to BAU 	 Institutionalise within client Project delivery in line with model BAU run activities in line with defined model Annual Reviews: Review performance and confirm future people, processes, technology plans and budgets 		
activities and SOW 1~2 weeks	future service 4~6 weeks	3~6 months	1-2+ years		

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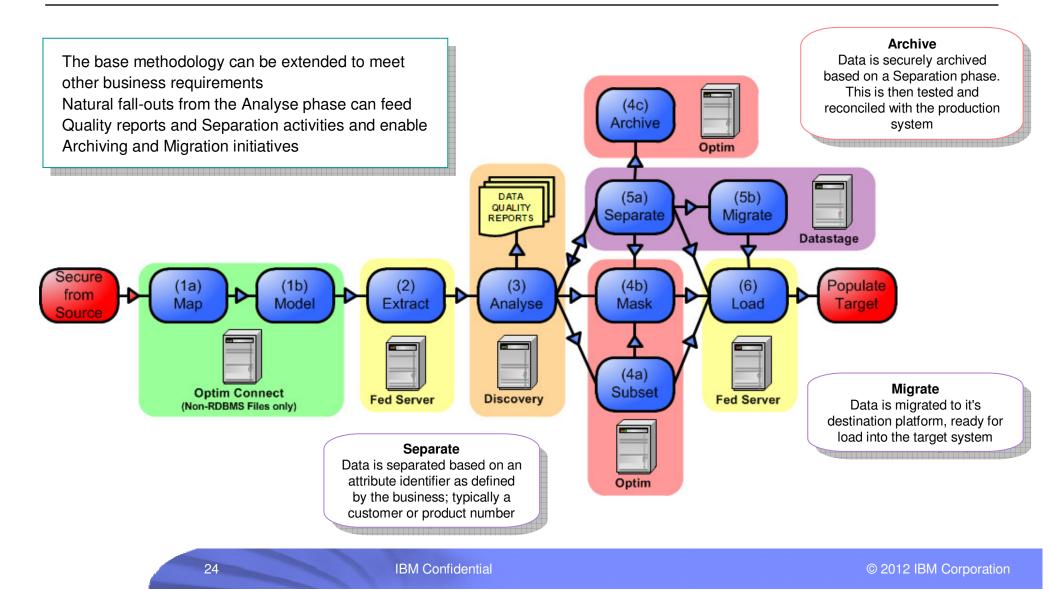
Extending the Service

Why IBM?





We are currently working to extend to support other business initiatives





The extended services are delivered following the same factory model and can be seamlessly Realising : incorporated into the Data Provisioning Factory Predictable Delivery Governance **Business** Service Request Priority Reusable Assets Service Approval Demand Identification Management **Design Authority** Fixed, Unit Pricing [Business Supply and Demand Demand Capacity Resource Technical Through: Management Management Management Management Structure process and approach Compliance] Proven methods and technologies Asset Reuse Catalogue Catalogue **Process Innovation** Effective use of Global Resourcing Management Documentation Management **IS** Strategy Service Management Service Planning Change Security and Privacy **Project Finance** Contract Principles Management Controls Management and and Reporting Management and and Reporting Reporting Solution Control Service Delivery Configuration Enterprise Management Management Architecture Governance **Data Provisioning** Test Data Migration/Integration **Environment** Services Provisioning Audit and Reconciliation Management Information Sub-Setting Desensitisation Data Extract Load Governance Transform Batch **Applications** Design Design Separation **Quality Support Design Build** Build Build Test Test Test Infrastructure Archiving Infrastructure **ETL Run Management** Governance Methods and Methods Process **Tools Management** Security and **Tools Provision** Management Management Compliance Governance The "Factories" Environment Environment Migration Migration Provisioning Provisioning Infrastructure Infrastructure Software Infrastructure Software Infrastructure Software Provisioning Design Design Design Design Design Design Build Build Build Build Build Build Manage Manage Manage Manage Manage Manage Typical Client 25 **IBM** Confidential © 2012 IBM Corporation Responsibilities IBM



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Data Provisioning – The benefits of such a service



Predictable

By working with you to define an appropriate demand we can model it against a capacity; allowing you to have confidence and clarity on data delivery – whilst keeping control of your costs.



Outcome Pricing By assigning a pricing mechanism that directly relates to the work that we do you will only pay for what you use and want

Our flexible methodology allows you to quickly and easily estimate pricing costs depending on your requirements



Reusable Each piece of data that goes through our process creates harvestable assets that can be leveraged time and again for re-use

This helps drives down costs over time; refreshing and repeating previously processed data is both quicker and cheaper



Cost Efficient Resourcing

Our team will blend experienced data architects, DBAs and analysts with our proven Global Delivery framework, keeping costs down without sacrificing delivery excellence

Global resources will be landed to satisfy regulatory requirements around data access



Flexible We provide a catalogue of data services backed up by a robust and flexible methodology, allowing you to utilise different aspects of the service to suit your requirements, from a single platform

This increases your ability to react to ad-hoc requests, or high priority requirements

Benefits



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Our case study – some of the details ...

Business Challenge

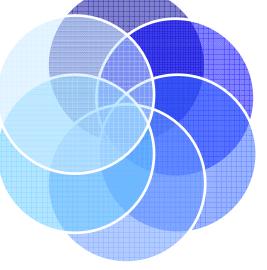
- Retain position as leading FS organisation in terms of customer care
- Ensure compliance with all regulations
- Reduce delivery cost through increased use of offshore development and test
 facilities
- Standardised approach to test environment delivery and management

Why IBM?

- Proven approach demonstrated through
 previous project-based delivery
- One supplier providing software and services no "passing the buck"
- Partnership approach
- Innovative and outcome based pricing

Factory Development Areas

- Data subsetting
- Data quality improvement support
- Data separation



Technical Landscape

- Mainframe (VSAM, QSAM, DataCom)
- Mid-range RDBMS applications (Oracle)

Our Solution

- Utilises standard methodology and approach
- + IBM performs all the tasks to desensitise the files or tables
- Fixed and variable payment, reflecting metered usage of the service
- Pricing is a unit cost per file or table desensitised based on simple parameters

Benefits Achieved

- + Delivered to date: 4,000 mainframe files and 26,000 database tables
- 40-50% saving in cost compared to previous approaches
- Reduction in impact on project timescales
- + Removed dependency on business application SMEs



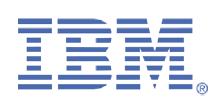
In summary ... IBM is uniquely positioned

Skilled and experienced people

- Unequalled breadth and capability of resources, with technical and industry knowledge:
 - Highly skilled data consultants with experience of rationalising data estates
 - Experience of processing data from complex mainframes, relational databases and unstructured text files
- Our people are committed to a set of core values:
 - Dedication to every client's success
 - Innovation that matters for our company and for the world
 - G Trust and personal responsibility in all relationships

Delivery confidence with a proven solution that works

- A data agnostic end-to-end solution that can be deployed and used on any major platform as an auditable BAU, factory-style service
- · Standard, repeatable approach with accelerators to fast track implementation
- Strong global delivery heritage and creditability
- Pay for what you use approach, with IBM accepting commercial risk with fixed, utility based pricing which supports variable demand management



Leading edge technology

Market leading InfoSphere software

- G Optim Connect
- Sederation Server
- I Discovery
- G Optim TDM and Data Privacy
- Jatastage
- Direct access to the development labs for product support and client specific enhancements
- Tools that are capable of providing reusable assets for future growth and initiatives around data management

Assets, methods and tools built from assignments around the world

- Standard set of IBM processes, methods and tools that are understood and applied globally
- Robust, proven, Data Provisioning methodology
- Access to a global database of knowledge, assets and collateral
- Opportunity to leverage lower cost global delivery model

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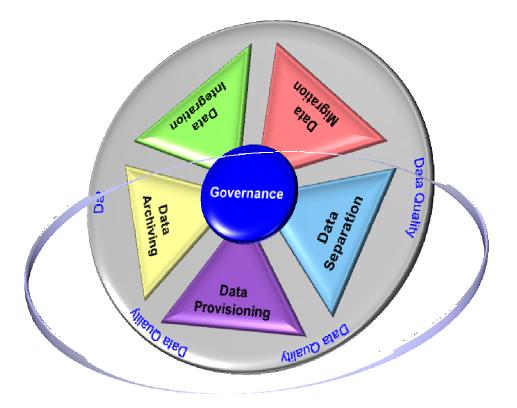


Data Provisioning – Key Contact

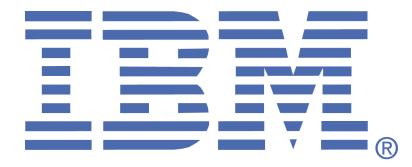
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Customer Centric Data Provisioning

Thank you



