

Small Business, Big Data

Adopting Splunk for Small Enterprises

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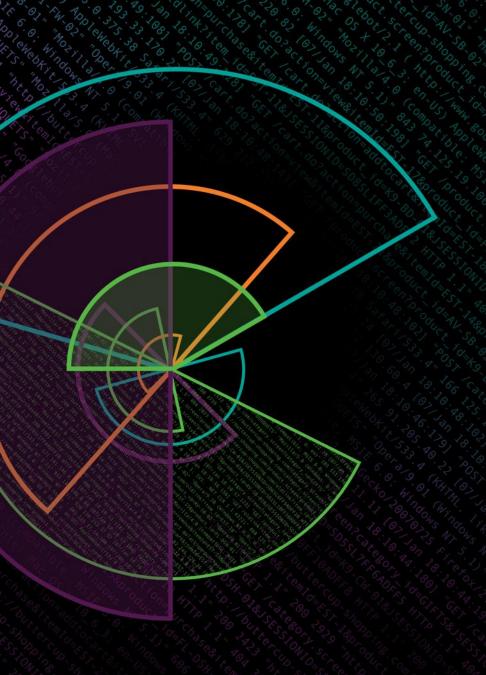
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- 1. Discovering data
- 2. Understanding data
- 3. Incorporating data



Introduction

Applying Enterprise Strategies to Small Business



ATB Financial

Make banking work for people

Doing things other banks wouldn't do

- Being ever loyal to our customers
- Being relentlessly inventive
- Being steadfastly genuine in our pursuit of Albertans' greater good

Using banking to create happiness. Because good things happen when happiness becomes your purpose





Paradigm Technical Consulting Ltd.

A simpler, brighter IT solutions provider

Simple, elegant designs

- Applications & Systems inter-operations development
- Performance Analysis & Monitoring
- Big Data & Operational Intelligence

Simple designs are often the most elegant building blocks of technology





Commonalities

What do Big Enterprise and Small Business have in common?

Charter

- Sustainable business model
- Measurable output
- Accountable to stakeholders

Problems

- Most data is uncaptured
- Relationships between data points are often difficult to identify
- Diverse array of workflows and streams

Goals

- Provide structure
- Define clear objectives
- Growth



"Big or small, Splunk tells the story of your business"

Discovering Data

Finding and leveraging everyday counters



Data Problems

A reciprocal relationship

Most Enterprise or Business data is uncaptured

Large Enterprises suffer from dimensionality and data overload

- Sprawling implementations
- Complicated workflows
- Exponential complexity

Most enterprises don't have much insight into their operations

Small Businesses suffer from data sparsity

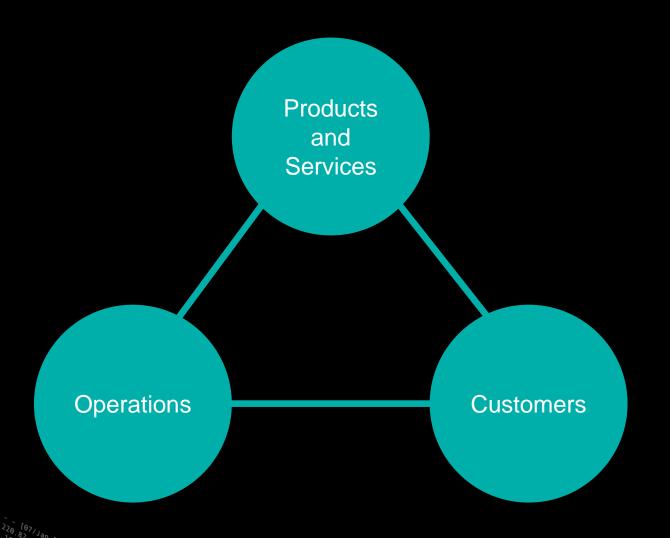
- Fewer counters & less formality
- Data can be scarce or infrequent
- Less standardization

Most small businesses don't understand the value of small data



Component Identification

What drives the business



- Work from the top-down
 - Understand the highest levels first
 - Pick 2 3 counters that define a component
- Organize by key management areas
 - Components encapsulate responsibilities

Understanding business components helps organize your data



Looking For Good Data

Not all data is created equal







- Know where to look
 - Catalog daily operations
 - Understand KPIs

- Understand workflows
 - Identify core processes
 - Plot the components

- Create new counters
 - Aggregate existing data
 - Metadata

Look at the data and identifiers that are already present

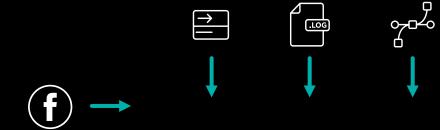
Identify the key business workflows and what conditions they require to be successful

Some of the most meaningful data will be between the lines

Getting Data In

Strategies to find good machine data

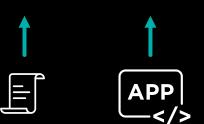
- Look for native connectors first
 - Splunkbase apps
 - File I/O
 - TCP Streams
- Capitalize on APIs
 - REST add-on
 - HEC / JSON
- Scripted / Modular Inputs
 - Printed results
 - Custom Apps













"Knowing where to look is often the biggest step to solving a problem"



Understanding Data

Drawing meaning from counters

Types of Data

Getting the most out of your counters

Intrinsic data

- Encapsulated
- Self-described
- Tells its own story

Extrinsic data

- Derived from context
- Relationship based
- Co-dependent

	Intrinsic	Extrinsic
Web Logs	Error occurrence Shopping cart contents	Bounce rate Sales / returns Repeat customers
Social Media	Active communities Fraudulent access	Social permeability Topic trends / marketing
Accounting Services	Asset revenue Employee cost	Asset decay Employee efficiency

Value of Data



- Depth of data
 - Volume
 - Granularity
 - Polymorphic nature



- Veracity of data
 - Accuracy
 - Conformity
 - Truthfulness



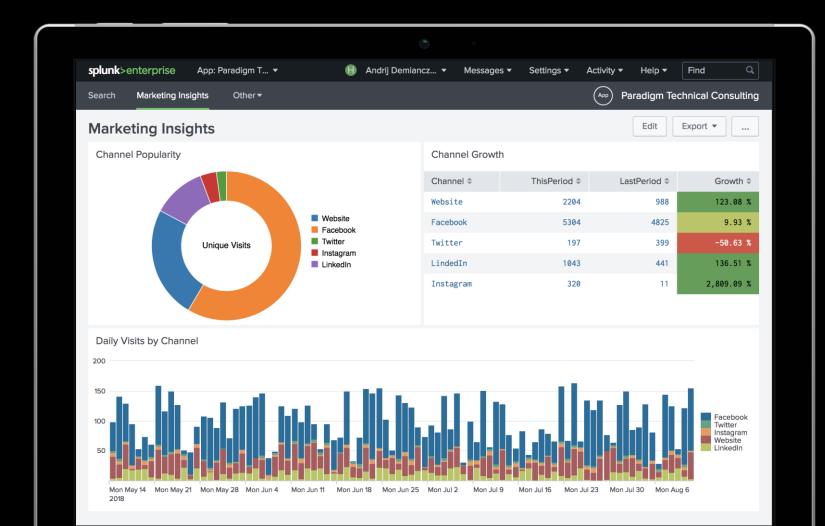
- Permeability of data
 - Inheritability
 - Degree of relationships
 - Degree of entropy

Value is established by meaning and utility



Creating Useful Dashboards

Getting the most out of your data



- What is being measured?
 - Define specific value cases
 - Is the counter quantifiable?
- What is actionable?
 - Does the data provide meaningful information and direction?
 - Is the data properly targeted?



"Data is most meaningful when it's trusted, consistent and reliable"



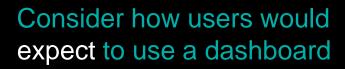
Incorporating Data

Integrating the counters

Putting It All Together



- Design efficient workflows
 - App organization
 - Navigation techniques
 - Lineage





- Compose meaningful dashboards
 - Un-ambiguous
 - Relevant
 - Logical Flow

Dashboards should be generalized at the top, specific on the bottom



- Decide representations matter most
 - Real-time vs. bucketed perspectives
 - Inline & Historical context for reports
 - User-friendly controls

Keep relevant data visible and hide what's not



Build a Solid Framework

Setting a valuable precedent

Operationalization should be simple and extensible

Simple designs are maintainable

Bring in as much data as possible and assign value to key counters

Prioritize your most important data

Intelligence should be actionable, consistent and timely

Reliability is critical



Big Data, Big Value

- Provide value to the business
 - Sustainable
 - Intelligence should evolve
 - Measurable
 - Benchmarking statistics
 - Accountable
 - Output must be measurable

Transition from business that drives data, to data that drives business

- Provide value to the customer
 - Is it worth their time
 - Perceived value of a service
 - Is it worth coming back
 - Rate of return
 - Is it worth promoting
 - Impacts sustainment and growth

Customer satisfaction is the North Star



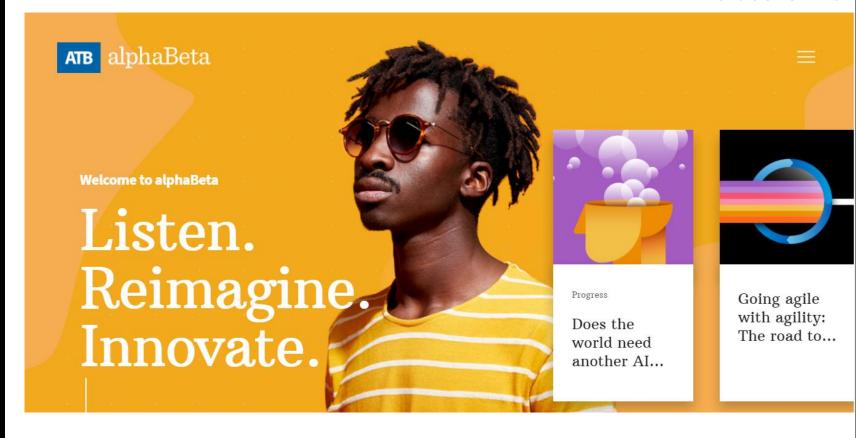
"In any business, good data has big implications"

Source information here

Key Takeaways Summing it all up

- 1. Identify your key components, workflows and create new counters. Know where to look for data.
- 2. Understand the value of your data; how counters relate to one another.
- 3. Efficient, unambiguous workflows make data accessible.

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