



# Driving Competitive Advantage with Comprehensive Customer Information Management

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***RBC Financial Group***  
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# About RBC Royal Bank

- Royal Bank of Canada (TSX/NYSE: RY) is Canada's largest bank & one of North America's leading diversified financial services companies
- Employs over 70,000 people\*
- More than 15 million personal, business, and public sector clients\*
- Market capitalization of \$71.5+ billion (\$CDN)\*
- Offices in North America and over 36 countries around the world
- Named to the "Global 100 Most Sustainable Corporations In The World"
- Canada's Most Respected Corporation for the fourth year in a row\*
- RBC rated most valuable brand in Canada, and in Top 100 Most Powerful Brands in the world \*

\* April 2008

# Customer Info Management Timeline

Pre 1997 - Focus on strong data management capabilities, develop client profitability model, early segmentation & sales management

1997- 00 Complete CRM gap analysis & form CRM Program Office, to implement "Quick Wins" and built CRM framework to generate revenue/ results "as you go"...

Post 1999 - Organize around the segments - adopt CRM as a "way of doing business"... then next generation CRM based on "enterprise view of clients"

**Up to 1996**

**1997/1998**

**1999/2000**

**2001-2007**

Real Time operational client information

Client and account information available internally online

Client profitability model and segmentation

New sales routines and processes

RBC Banking "Do not Solicit" capability

Implemented industry leading Marketing data mart

Re-designed sales and service desktop supporting new sales routines

New and more precise client value model

Life Stage Segmentation and Potential

First client strategies and automated leads to the desktop

Automated decisions

Retention management

Client risk/collection management

Campaign management automation

e-Offers via On-line Banking

Enterprise client data warehouse

Business Markets data mart integrated in data warehouse

Contact centre queuing based on client value

Pricing based on client value

Client Preference and Choice – enterprise consent and solicitation management

Enhanced enterprise profitability

Enhanced enterprise segmentation approach

# Information Management contributes to RBC's Strategic Priorities & Other Initiatives...

## Support analytics modelling, segmentation, client value measurements

- Improved client value calculation, analysis & reporting
- Analysis and modelling to provide deep client insight in order to strengthen client relationships and increase customer value

## Support client decisioning & execution

- Improved precision of client decisioning for marketing, service and operational initiatives
- Improved efficiency of campaign execution.

## Support performance management

- Scorecards, dashboards, trending reports
- Marketing reporting
- Full suite of product MIS capabilities

## Data governance and productivity enhancements

- Data stewardship, governance and security
- Concentrating on elimination of redundant data
- Streamlining & automating processes in order to reduce support & maintenance costs
- Increased consistency and ease of access to data

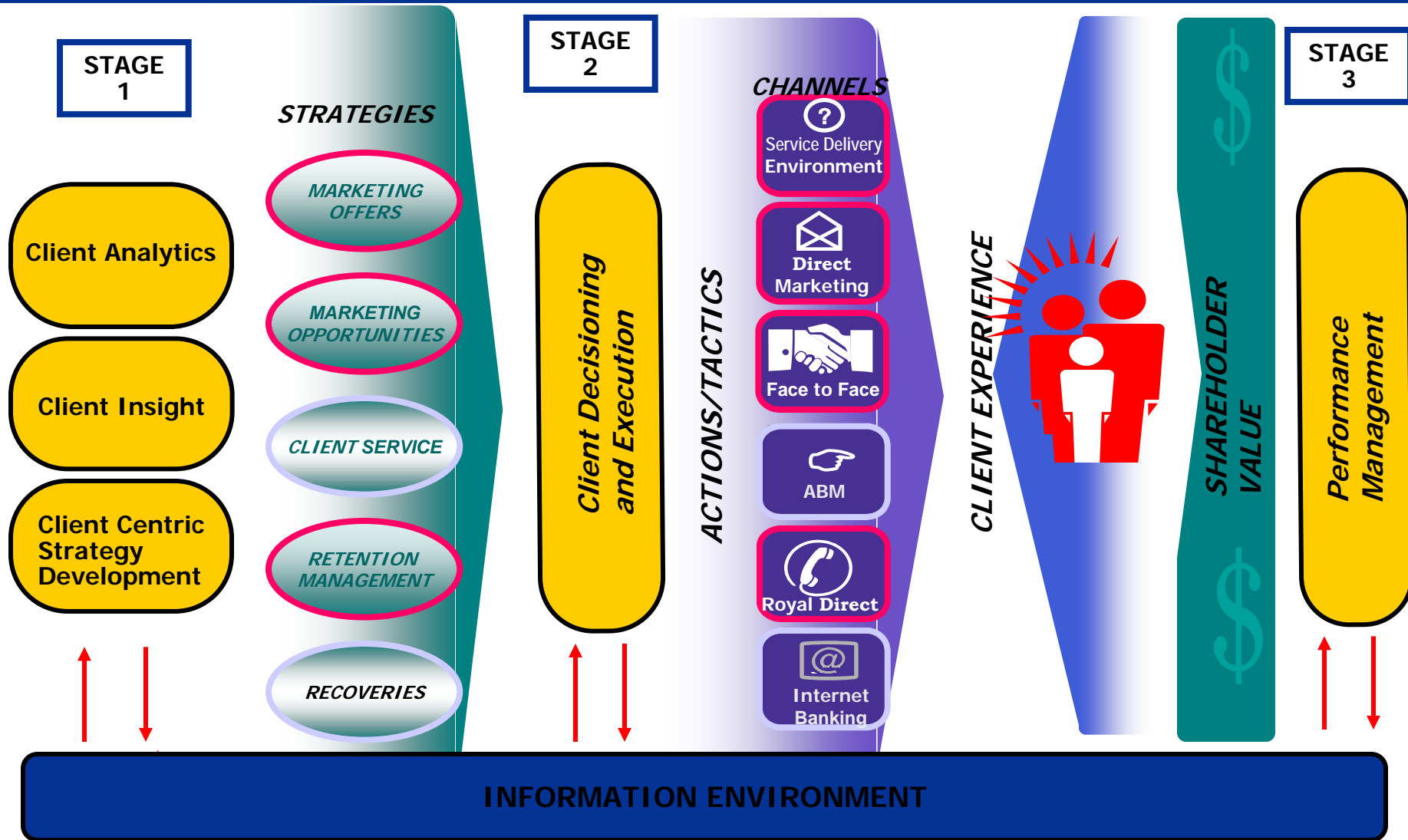
## Contributes to the following Strategic Priorities

- *Revenue Growth in Canada*
- *Superior Client Experience*
- *Cost Management & Risk Mitigation*
- *Cross Platform Leverage*

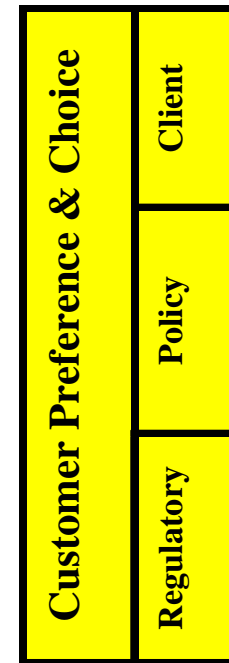
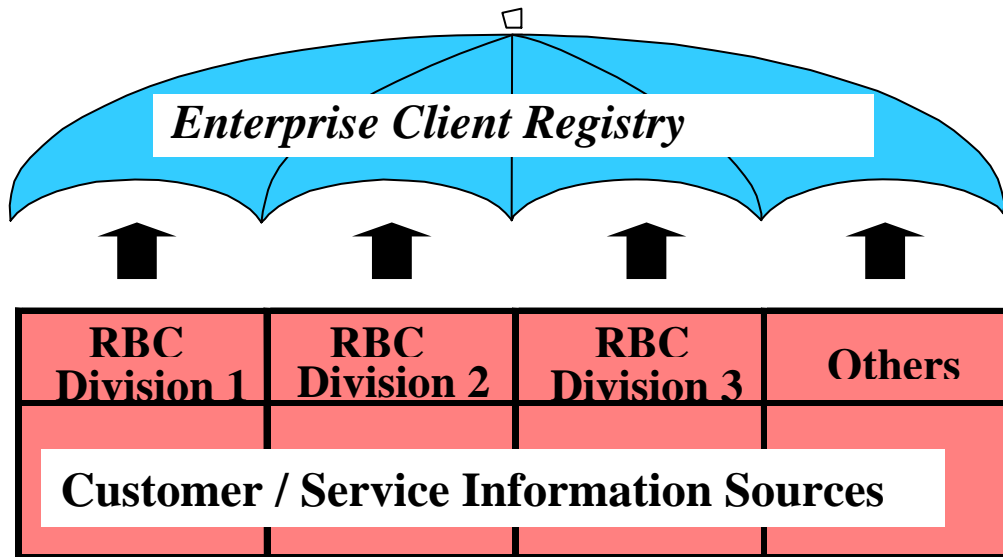
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## Enables Transformational Initiatives

# Customer Management Operating Model



# Enterprise Client Registry - Business Model CRM across channels, and across enterprise



*Successful data and info integration is critical to fully realize enterprise benefit & value*

*Core uses to date –*

- Client profiling, “shared client” analytics & metrics
- Market research
- Performance management reports – i.e. scorecard
- Client value measurement – enterprise and divisional
- Campaign management & decisioning – client exclusions

RBCFG Confidential

# Enterprise Client Registry - Functionality

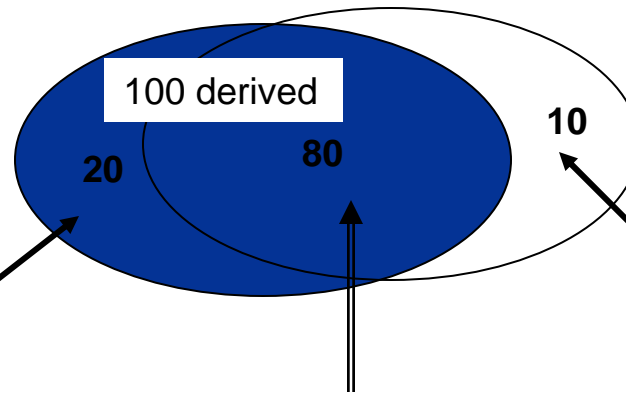
- Application that creates a unique identifier that links a customer across the RBC Financial Group enabling an enterprise customer view.
  - Daily delta process
  - Monthly load of linkages to the DWE
- Uses Ascential's Quality Stage software (tool)
  - ECR modified rules for name & address for standardization to increase the match rate. Eg: 'Bob' gets changed to 'Robert'
- Matches are either derived (automated match) or confirmed (provided by the client by using their client card#).
- Once matched a client remains matched forever; unless, one of the client records is deleted, in which case the client will become a "singleton".
- The ECR Number is **not** persistent month over month; refer to new monthly table for historical linkages

**ECR is designed to match any entity to any entity**

# Difference between a 'derived match' and a 'confirmed match' ...

**Total of 110 profiles**

ECR matching example (Direct Investing / Dominion Securities to Bank)



## Derived but not confirmed

- not confirmed because NO RBC client card# is on file
  - derived because fields used in algorithm can be matched up to the minimum score required
- eg:  
Name, Address, Phone, DOB, DL, acct #

Derived  
**AND**  
confirmed

## Confirmed but not derived

### Reason #1

- AD client has provided spouse's card#

### Reason #2

- confirmed because the RBC client card# is on file
  - NOT derived because fields used in algorithm cannot be matched
- eg:  
Name = S.Hayes and Sheila Hayes  
Address = old and new address  
Phone = old and new  
Date of Birth = different



# ECR Functionality...use across enterprise

- **Client profiling** / analytical analysis (eg: shared client analysis)
- **Sharing** of “Do Not Solicit” codes and exclusion lists
- Profitability and predictive **models** (e.g. EPV)
- **SRF Suspect duplicates project**
  - 135,465 duplicate records exists as of January-2006 month-end (very low percentage on a 10 million client base – better than Best in Class)

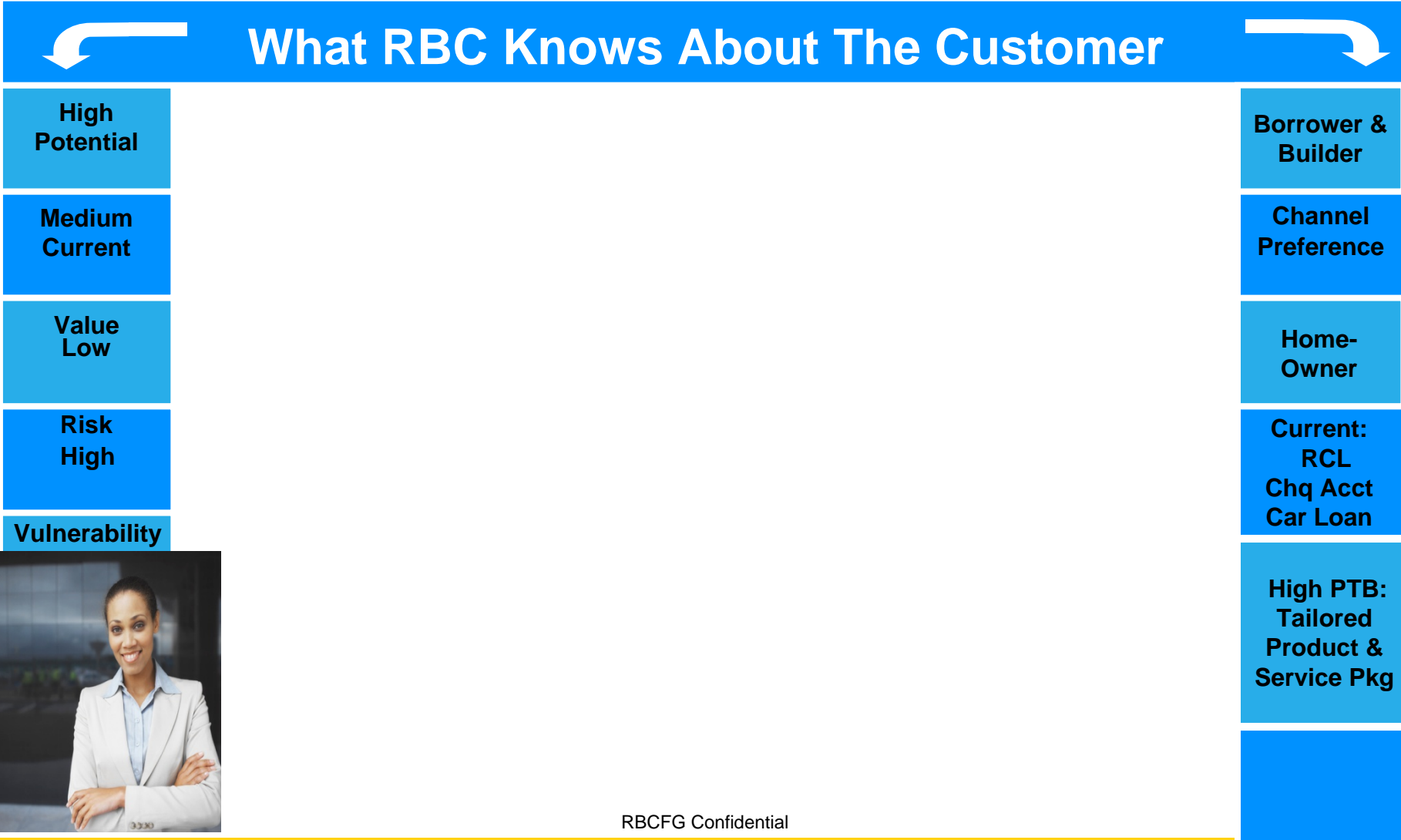
Last clean up done in 2002/03
- **Scorecard** for the field
- **Regional President’s** market contribution
- **Campaign Decisioning**.....client exclusions
- **Market Research**
- **Direct Investing**...used to provide staff discount if CPC is Share for Service = ‘yes’

# ECR Functionality...use across enterprise

## External File Matching:


- **Dun & Bradstreet**
  - RBDM file and D&B file run through matching algorithm quarterly
  - Matched file is stored on RBDM
  - Used to append to bank data
- **Visa Enrolment** via paper applications (runs three times a day)
  - New applications received prior to going through the BDP/TSYS process
  - Passed through ECR to determine if client has an existing SRF profile within the bank and if so, additional information is provided back to assist in the credit approval process.
- **Prospect List Matching** (matched or unmatched exclusions)
  - Primarily used by the Campaign Execution team
  - Web-interface that was built for the purpose of matching external lists (approx. 100M records) against our client base and identifying matches in order to exclude existing clients from any marketing campaigns.
  - Output files is loaded to temporary tables

# Developing personalized strategies



# Developing personalized strategies

## Action To Take and To Measure

Targeted Marketing Offer	Tailored Retention Activity	Individualized Courtesy Overdraft	Effective Sales Practices
<p>① While Viewing Account Transactions on Internet, Browses Service Package Offer</p> <p><i>Looks interesting, I'll investigate further when I have more time.</i></p> <p><i>RBC understands my needs.</i></p>	<p>② Royal Direct Contacts Client For Customer Care Call</p> <p><i>RBC cares about me, I am not just a number.</i></p>	<p>③ RBC Pays Cheque by Extending a \$750 Courtesy Overdraft</p> <p><i>RBC appreciates my business.</i></p>	<p>④ Client Goes To Branch, Personal Banker Aware of Internet Offer and Sells the Service Package</p> <p><i>RBC is dependable.</i></p> <p><i>I trust RBC.</i></p>
 <ul style="list-style-type: none"> <li>• Reduce Vulnerability</li> </ul>	<ul style="list-style-type: none"> <li>• Reduce Vulnerability</li> </ul>	<ul style="list-style-type: none"> <li>• Improve Efficiency</li> <li>• Increase Profits</li> <li>• Reduce Vulnerability</li> </ul>	<ul style="list-style-type: none"> <li>• Increase Profits</li> <li>• Reduce Vulnerability</li> </ul>

# Courtesy Overdraft Limit – Client management across channels (ATM )

## Courtesy overdraft limit (COL)

- Overdraft facility for personal customers
- Limit set at customer-level, reflects customer's entire relationship with RBC
- Applied to primary chequing/ savings accounts

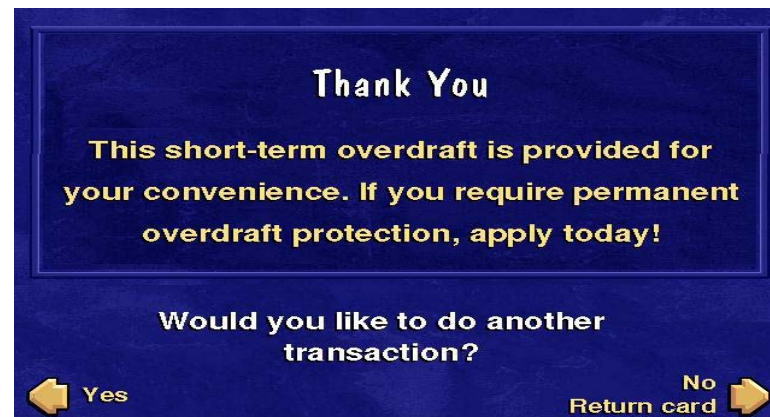
## Eligibility for COL

- RBC customer for at least 90 days
- Current low credit risk score
- Made deposit in previous month

**Scenario: Client wants to withdraw \$100. However, has only \$43.52 available in account.**

**At the backend, client has been decisioned for COL. Hence, is allowed to overdraw and prompted to acknowledge the \$5 handling fee to continue with withdrawal.**

**Note that once the client acknowledged the fee, the fee will not be reversed.**



# Sales Platform – Relationship Value Pricing

**Sales Platform** File Profiles Organizer Applications Tools Help

Organizer Find Client TEST, A-040

Overview Glance **Opportunities and Offers** Relationship Value Preference & Choice Accounts Contacts Services Strategy

Type: 
 Registered Guaranteed Investment Certificate
  Personal Loans
  Non-Registered Guaranteed Investment Certificate
  Residential Mortgages

Current Date: March 15, 2005

**Balances**

Terms	Up to \$9,999.99 [%]	\$10,000 to \$24,999.99 [%]	\$25,000 to \$49,999.99 [%]	\$50,000 to \$99,999.99 [%]	\$100,000 to \$249,999.99 [%]	\$250,000 and up [%]
Less than 3 months	0.00	0.00	0.05	0.10	0.25	0.25
3 months to 1 year less a day	0.00	0.00	0.10	0.20	0.35	0.35
1 year (including Cashable)	0.20	0.20	0.30	0.30	0.35	0.35
Greater than 1 year to 2 years	0.20	0.20	0.30	0.30	0.35	0.35
2 years and 1 day to 4 years	0.20	0.20	0.30	0.30	0.35	0.35
More than 4 years	0.20	0.25	0.30	0.30	0.35	0.35

Proposed

Total Investments:

Total Loans:

Total Mortgages:

Start A - 32... C - 32... D - 32... FIOSe... E - 32... I - 327... Sale... Docu... 9:48 AM

# Lessons for Building Customer Information Management

- Strong executive sponsorship is key
- Articulate business vision for relationships and client experience goals (from client view!) and capabilities assessment – people, process, information and technology, to develop and maintain roadmap. Info and technology should support business vision and people/ process (not the other way around!)
- Analytics, segmentation, modeling and metrics evolve over time, and the combination of research and analytics creates greater and more actionable consumer insights and should direct new information needs
- Centralized information, modeling and analytics can accelerate learning and can be leveraged between businesses, however cross functional teams - executive and working teams – are fundamental to organization/ culture changes needed to cross internal divisions & develop enterprise solutions
- Centralized information management business team, supporting data stewardship, governance and development funding is key for effective maintenance, however subject matter expertise and business information needs must be a shared responsibility and required for organizational credibility

THANK YOU !