

# Privacy – it's all about balance

*Strategies for an Evolving World  
2008 NSS Conference  
St. John's, Newfoundland and Labrador  
3 June 2008*

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# A practical approach to balancing privacy

## 1. PIPEDA

- Standard gone law

## 2. Perspectives on outsourcing

- Four key steps

## 3. Building privacy into technology

- Case study: Voice Identification Service (VIS)

# 1. PIPEDA – Standard gone law

- **CSA Privacy Standard (NSC)**
  - Essentially management system type standard
  - All about supporting business practices
    - Fair information practices tailored to business
    - Flexibility needed as one size does not fit all
  - Difficult to conduct a “privacy audit” per se
    - Every privacy obligation tied to a business/commercial practice
    - Focus on specific areas: e.g. contractual safeguards when outsourcing to 3<sup>rd</sup> parties

## No more “privacy” standards

- **Other standards should respect principles of privacy standard**
- **Focus on tangible areas**
  - E.g security/encryption – so when used, aids with privacy compliance, but not compliance in and of itself
- **Technical standards seen as the “tools” to implement principles in privacy standard**
  - avoids costly retrofitting of products and services
- **Privacy standard can assist in bridging the gap between those countries with legislation and those without**

## 2. Perspectives on Outsourcing

- PIPEDA does not prevent companies from outsourcing to Cdn, US or foreign service providers or parents
  - but does require companies to be transparent and they must protect this information to the extent possible by contractual and other means
- Consider a business function as a candidate for outsourcing ONLY if the benefits of outsourcing the business function outweigh the associated risks

# Four Keys to Outsourcing

- i. **Verify**
- ii. **Minimize**
- iii. **Anonymize**
- iv. **Notify**

## i. Verify

- Do your due diligence
  - Investigate service provider (e.g. privacy policy, trains employees, ability to provide comparable level of protection)
    - very relationship between employer/employees important
    - visit sites and conduct on site due diligence to satisfy self proper restrictions are in place
    - review all of suppliers processes and procedures and prepare deficiency list in the event deficiencies are discovered and require supplier to rectify before launching services
  - Pay particular attention to legal requirements of jurisdiction, as well as social, economic and political conditions that may impact service provider's ability to provide service/s
    - Geopolitical risk: high, medium or low risk
    - What are privacy laws in foreign jurisdiction?
- Assess overall level of risk associated with various services being outsourced across the Company

## ii. Minimize

- Minimize disclosure and storage to U.S./foreign vendors of only that customer information absolutely necessary to carry out, on your behalf, function with which they have been tasked
  - fundamental best practice in privacy circles
  - something we've been doing (or should have been doing) for years
- convenience is NOT good enough
  - E.g. walk through each and every data field to determine if necessary
- if access to database is necessary, consider limiting access on a query basis rather than full access to entire database, or limiting access to read only with no ability to make changes
- consider storing data on a separate server in Canada and granting vendor access to database from abroad – this way allows you to shut down access from abroad if necessary
- Give parameters, but ultimately a business decision
- Depends on “materiality”



### iii. Anonymize

- Wherever possible, anonymize customer information sent to U.S./foreign vendors
- Use separate unique identifiers that only mean something to you
- Take pains not to provide US/foreign vendor with information that would allow them to identify individual subscribers
  - e.g., while vendor may have log information, may not have full profile information to match with a named individual, tied to a phone number and address
  - makes it impossible for U.S./foreign authorities to identify individual customers, without the aid of Canadian law enforcement/courts through the Mutual Legal Assistance Treaty, etc.

## iv. Notify

- Notice to customers that when they use the service in question, data may be stored in the U.S/other jurisdiction (see next slide for sample language).
  - Customers typically cannot withdraw their consent from such clauses
  - Query whether such high level notices provide any value to customers given extent of outsourcing
  - still goes to transparency – now a best practice under PIPEDA
- May be useful to include similar language in user agreements for particular services where there is some additional sensitivity to the data being provided cross-border
  - e.g. location-based services.
- Similar notice for employees so that they at least know about the possibility
  - e.g. Ethics hotline that uses a US service provider – notify employees of that fact

## 3. Building privacy into technology and procedures

### Case study

- Voice Identification Service (VIS)

## Bell's business challenge with identity

- Unlike financial services, most Bell services are for the household, but one individual is accountholder with possible co-users
- How do we know our customer's identity today?
  - no face to face relationship with our customers
  - identify them with shared public and private data over different channels
    - IVR, internet, retail, live agent, field forces
- Built out many different customer identification processes over the years and across different channels, e.g.
  - IVR – separate PIN for self serve of Bell Canada home phone services, Sympatico agent, ExpressVu
  - Unique personal PIN/password at live agent levels
  - [www.bell.ca](http://www.bell.ca) web site username and password
- IVR channel PIN/Postal Code identification is not transferred to live agent channels
  - Agents must re-identify customers
  - No consistent process across all live agents

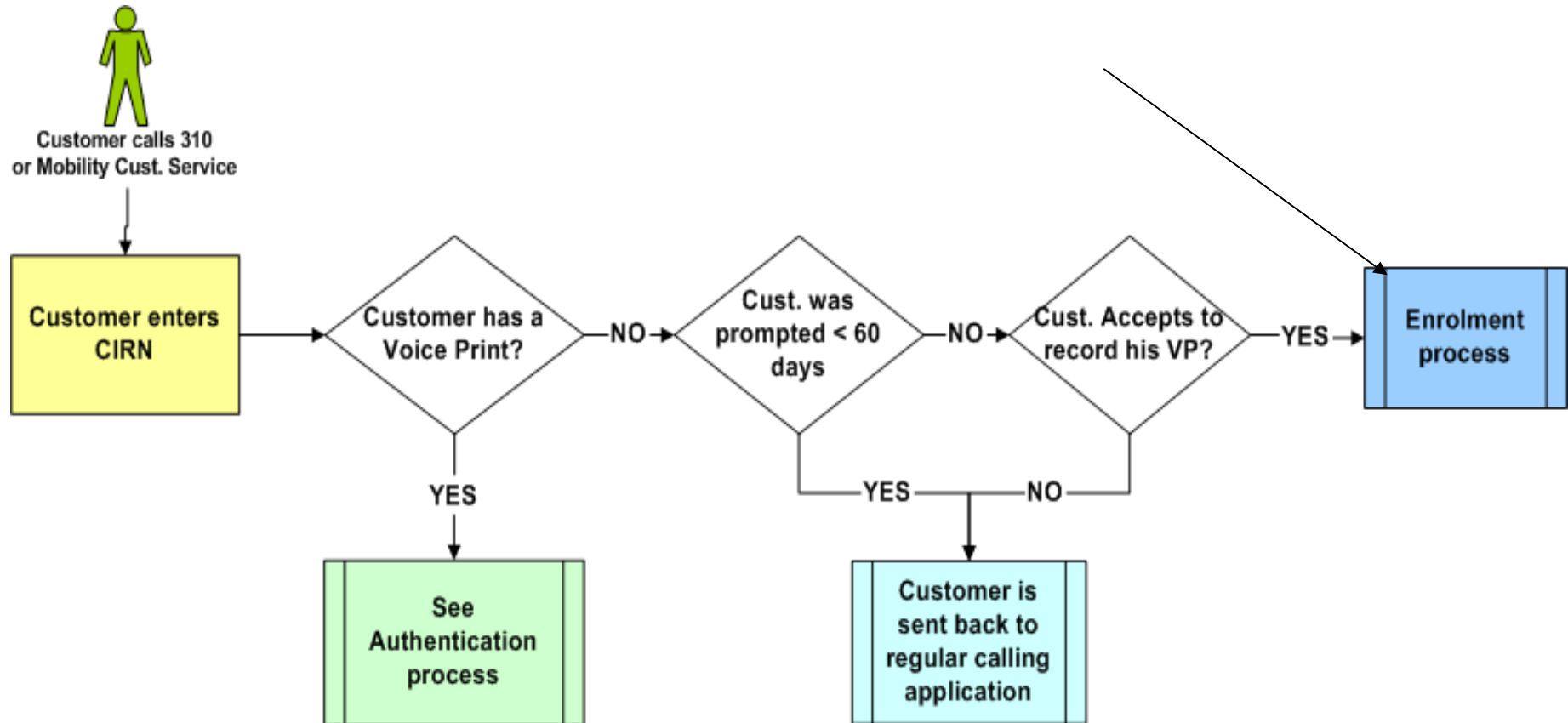
## Possible solutions to the challenge

- We looked at a Universal PIN solution first
  - Our ExpressVu customers already used a 4 digit numeric PIN for this kind of identification in the IVR and in the call centre
  - Determined that PIN solution was too costly to maintain since customers could not remember their PIN in the current situation
- We next looked at a Speaker Verification solution
  - We had existing experience internally with this technology for field services technicians with positive results
  - Did a proof of concept to check for a secure solution, integration ease, flexibility in customer experience
  - Looked at using the customer phone number as a pass phrase
    - Chose to use a universal pass phrase instead
      - “At Bell, my voice is my password”

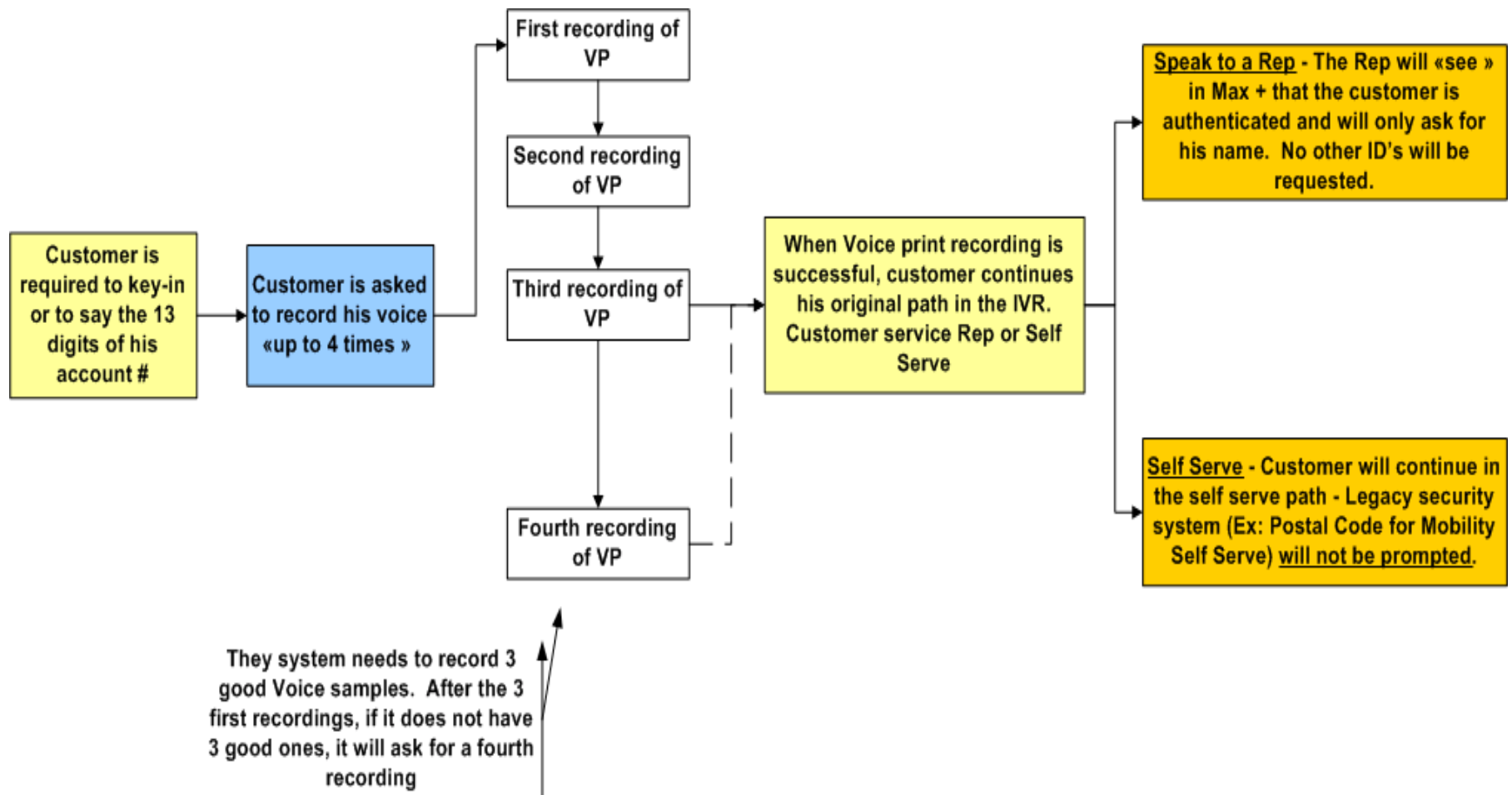
# Voice Identification Service Design

- Considerations in Design for the IVR
  - Insert new identification process into current business logic
  - Customer choice to enrol with opt-out or re-prompt for enrol after 60 days
  - Opportunity for agent to send customer into IVR to enrol
  - “Calling In Regards to Number” (CIRN) is checked for enrolment in secure back end database in our corporate data centre
  - Have Calling Line ID as an audit with CIRN and account number as identification input that must match to proceed with enrolling a voice print against the account
    - a) CLID - calling from – public ) 2 and 3 must match to proceed
    - b) CIRN - calling about – public) 1 is there for audit purposes
    - c) Acct. # - shared - private )
  - Successful Verification allows customer to proceed in IVR through self serve or transfer to agent
  - Multiple voice prints per account are allowed for authorized account holder's and co-users
  - Successful enrolment requires a minimum of 3 audio inputs to complete a voiceprint

# IVR Voice Print Process Begins

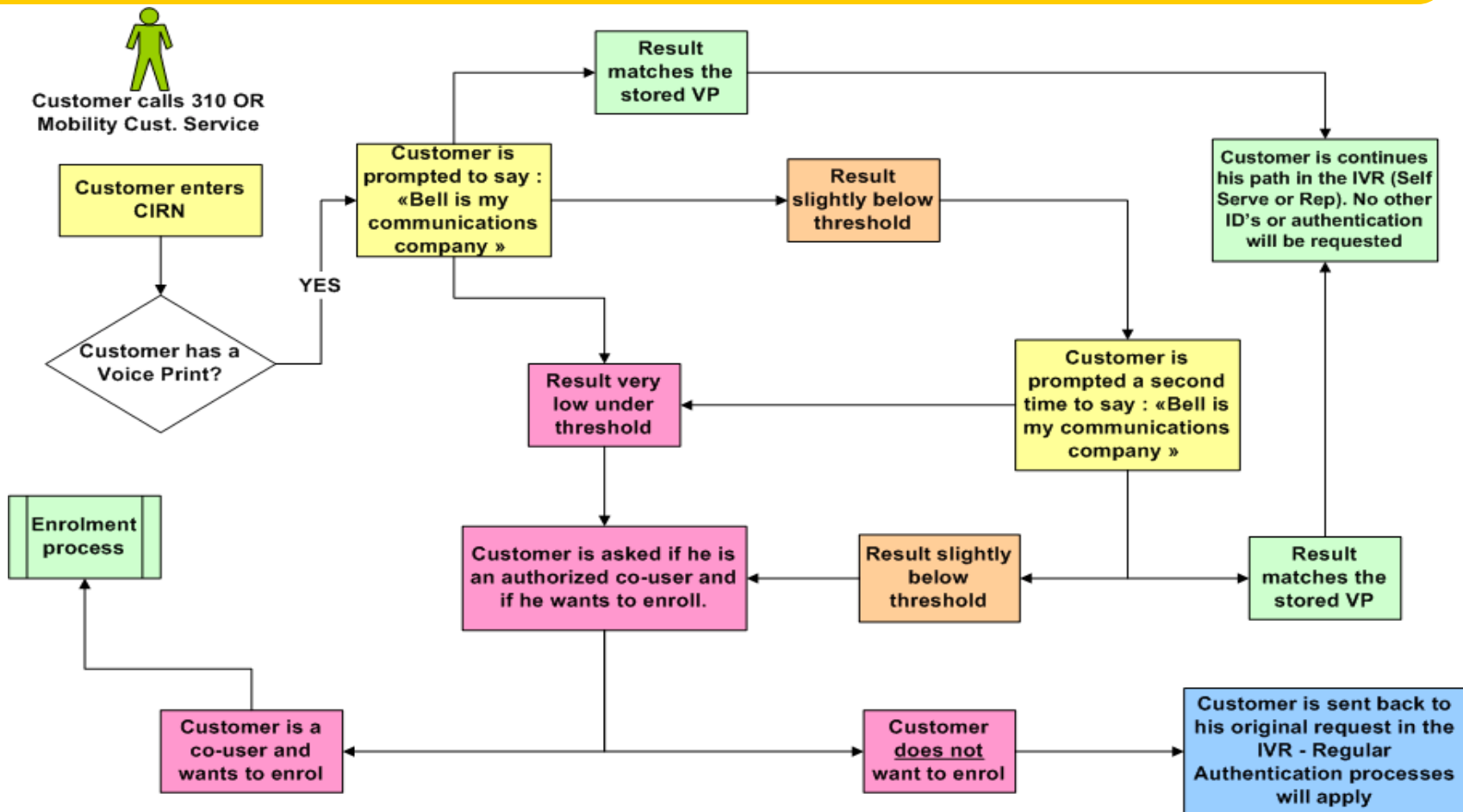


# IVR Voice Print Enrolment Process





# IVR Voice Print Authentication Process



## Technology solution addresses challenge

- Safeguards
  - Agent has final accountability on calls transferred to determine individual identity of caller
  - Low business risk self serve in consumer market
  - Support “gui” is password protected
  - All logs are encrypted – reporting through “gui” only
  - Site specific encrypted key – can’t use our Bell solution anywhere else
  - SOx compliant data centres
  - Encryption of voice print related data
  - Stored in Bell’s secure data centres in Canada
  - Auto IVR call back to CIRN if enrolment completed against account, with info and agent support if required

# Voice Identification Service - Deployment

- Why did we choose a pass phrase?
  - It's the best customer experience in a business model where we know our customers at the account level
    - they can have multiple accounts and phone numbers
    - multiple people can have authority on the same account
  - Easy to perform the verification
    - no customer memory load – we tell them what to say every time

## **It's all about balance**

**balancing the demands of our customers for  
legitimate, timely access to their account  
information**

**with**

**the need to protect that information from  
unauthorized disclosure**