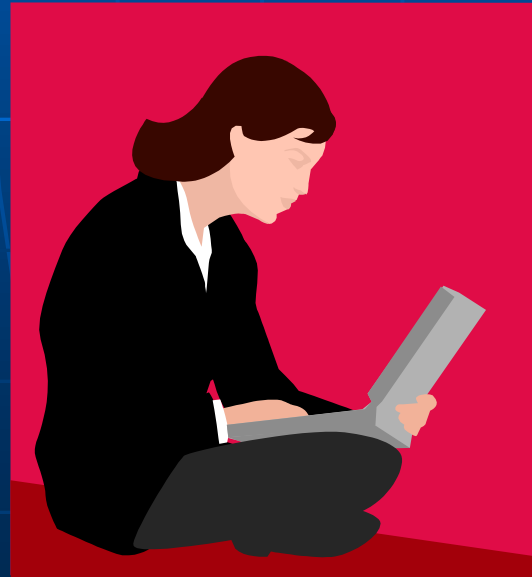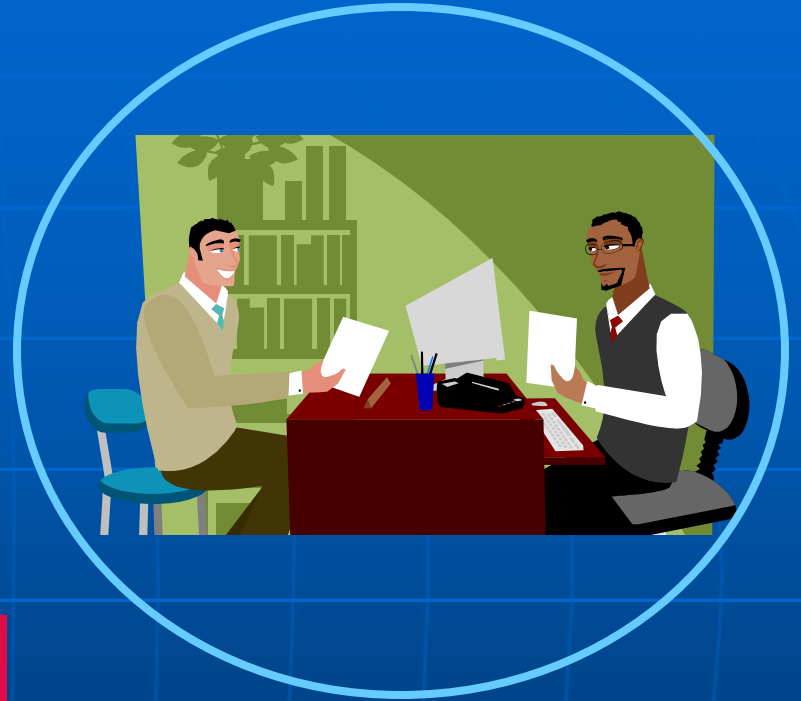# Distributed CAPI Interviewing with Blaise IS for the Web for the Adolescent Trials Network

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Westat
FEDCASIC – March 15, 2006

Types of ACASIs/CAPIs

A Different Operations Model

- "Without change, something sleeps inside us, and seldom awakens. The sleeper must awaken."
  -*Frank Herbert*

1. Shift from Blaise to Blaise IS
2. Shift from "household" model to "Web CAPI" model

A Different Operations Model

Laptops

PCs / Web

Introduction

- Welcome Blaise IS!
- ATN project - shift from "household" operations model to "Web CAPI" model
- Optimal study for this model
  - New ATN study consisted of only 5 sites
  - 2 users per site (10 total possible users)
  - Study took place in the clinic
  - Coordinator "at the helm"
  - Very reasonable development timeline
  - Limited "stress" on the system

Topics to be Discussed

- What is the ATN?
- The ATN Survey
- Web CAPI - New Site Based Operations Model
- Accessing the CAPI via the Web
  - A Peek at the Web Survey
  - Feedback Report
  - Development Issues
  - Getting Started
  - Help Desk Support
- Conclusions

What is the ATN?

ADOLESCENT TRIALS NETWORK
for HIV/AIDS Interventions
Prevention and Care for Today's Youth

- Adolescent Trials Network (ATN)
- HIV Treatment & Prevention
- Therapeutic & behavioral studies
- 15+ Clinical sites throughout the US
- "Adolescents" ages 12-24
- 5 sites chosen for CAPI protocol
- 5 previous ACASI projects used Blaise

The ATN Survey

- Very long instrument (about 1 hour)
- Longitudinal (3 month follow-up visits)
- Questions covering alcohol, drugs, sex, etc.
- Interview conducted in the clinic
- Interviewer asks, then answers questions
- Need immediate "Feedback Report" after survey is completed

The Web CAPI, A New Site Based Operations Model

- Luxury of own PC within office setting
- Different from community based model
- Benefits of Web CAPI to the ATN
  - Laptop Logistics
  - Data Transmission
  - Platform Updates

Accessing the CAPI via the Web

- CAPI – 100 instruments in the field
- Web CAPI – 100 users for 1 instrument

Blaise IS Requirements
- Site needs a PC
- Site needs reliable internet access
- Site needs common, "up to date" browser

Accessing the CAPI via the Web

- Enter CAPI through project website (ASP)
- CAPI/website access (SQL/Server database)
    - Website "passes" username
    - Website "passes" site number
    - User enters SID number
- Very basic CAPI interface
    - Same "look and feel" of project website
    - Limited functionality (keep it simple)
    - Main goal – collect quality survey data

Accessing the CAPI via the Web

Authenticating a User Across Websites
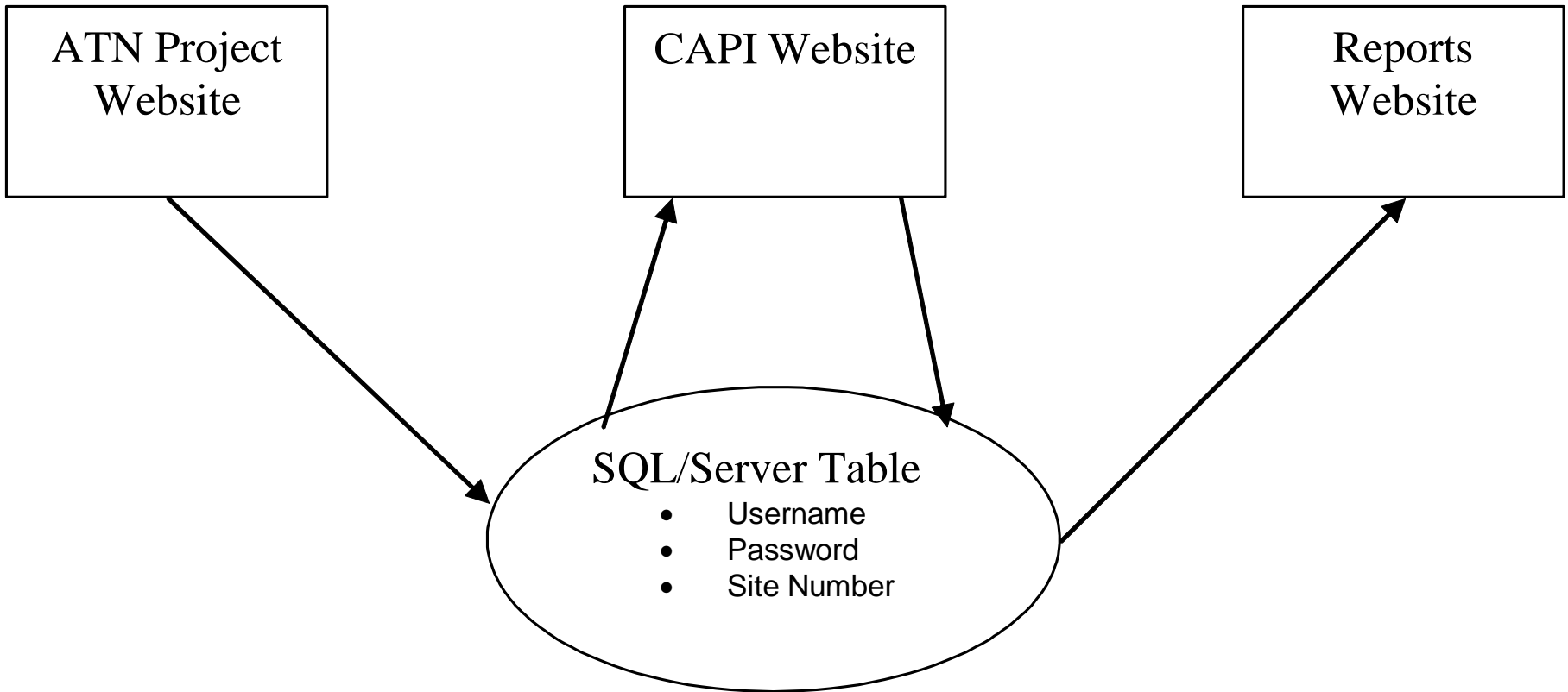
A Peek at the Web Survey

- Accessing the CAPI via the ATN Website

A Peek at the Web Survey

- Accessing a Subject's Survey

A Peek at the Web Survey

- Multiple Questions/Responses

ATN - Microsoft Internet Explorer

ATN 004
Progress:

ATN

0 104 - 113

In your life, which of the following substances have you ever used? (NON-MEDICAL USE ONLY)

	1. Yes	2. No	Don't know	Refused To Answer
Tobacco products (cigarettes, chewing tobacco, cigars, etc.)?	⦿	○	○	○
Alcoholic beverages (beer, wine, spirits, etc.)?	⦿	○	○	○
Cannabis (marijuana, pot, grass, hash, etc.)?	⦿	○	○	○
Cocaine (coke, crack, etc.)?	○	⦿	○	○
Amphetamine type stimulants (speed, diet pills, ecstasy, etc.)?	○	○	⦿	○
Inhalants (nitrous, glue, petrol, paint thinner, etc.)?	○	⦿	○	○
Sedatives or Sleeping Pills (Valium, Serepax, Rohypnol, etc.)?	○	⦿	○	○
Hallucinogens (LSD, acid, mushrooms, PCP, Special K, etc.)?	○	⦿	○	○
Opioids (heroin, morphine, methadone, codeine, etc.)?	○	○	○	⦿

Previous   Next   Save and Exit

A Peek at the Web Survey

- Skip Patterns and the Progress Bar

Feedback Report

- Real-time reporting
- 17 page "Feedback Report"
- Interviewer/interviewee discussion
- Processing of data
    - Extract data from Blaise (hundreds of fields)
    - XML string sent to website SQL/Server database
    - SAS extracts XML string, converts, and processes data for report
    - HTML report created by SAS via project website

Feedback Report

3. ATTITUDES ABOUT TAKING CARE OF YOUR HEALTH:
(1=very sure I cannot, 2=pretty sure I cannot, 3=not sure if I can or cannot, 4=pretty sure I can, 5=very sure I can)

Likelihood that I will take my medications

N/A   1   2   3   4   5
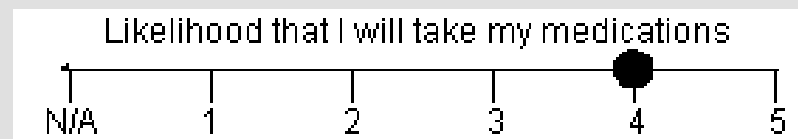
When you might be tempted to miss your medications
(1=not at all, 2=not very tempted, 3=moderately, 4=very, 5=extremely)

When I feel bad (side effects/sick)

N/A   1   2   3   4   5

When I forget or I am too busy

N/A   1   2   3   4   5
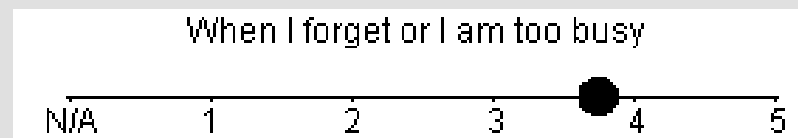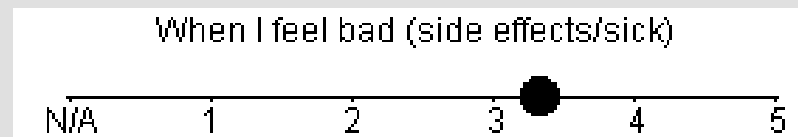
Development Issues

- Very few "development" issues
- Speed – decreased as interview continued
  (this was resolved)
- Stress – no apparent problems
- Multiple releases during development
  - Software is quickly evolving
  - A few "bug" fixes
  - A few enhancements

Getting Started

- Conducting webcast training session
- Including help desk/study staff in training
- Setting up demo area for practice
- Requiring users to complete practice cases
- Phasing in users by one site at a time

Help Desk Support

- Support **NO** longer needed:
  - Laptop navigation and functionality
  - Power source
  - Battery replacements
  - Software updates and upgrades
  - Lost Data (e.g. stolen or damaged laptop)

Help Desk Support

- Support **STILL** needed:
  - Survey navigation
  - Remembering username and/or password
  - Entering wrong ID number
  - Trying to access expired ID number

Help Desk Support

- Support needs that are **NEW**:
  - Pop-up blocker
  - Server down
  - Firewalls at the site
  - Trying to work "offline"
  - Old browser version
 - Non-compatible browser

Conclusions

- Web CAPI – different operations model
- Some decreased complexity (laptops)
- Some increased complexity (web)
- Web - full control over data and application
- Interoperability of multiple websites
- Positive feedback from users
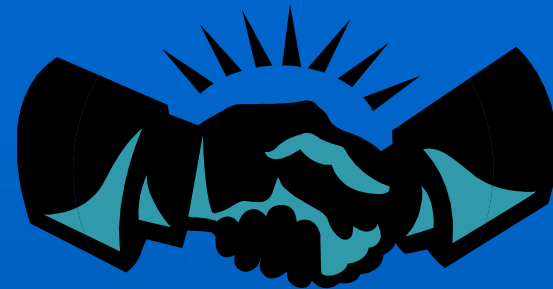- Wealth of knowledge gained from experience

Conclusions

- Blaise IS – Ability to replace multiple instruments used by multiple users with only a single instrument used by multiple users.

- Web CAPI – Ideal for our ATN protocol
- Future CAPIs – Blaise or Blaise IS?
  - Evaluate carefully
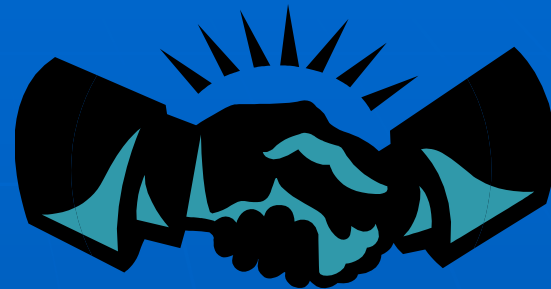 - Determine best operations model

Acknowledgements
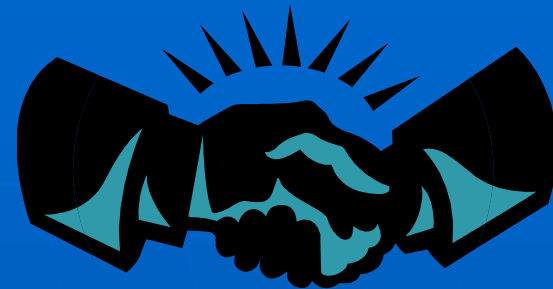
- Thanks to the terrific Blaise IS development team at Westat!
- Blaise® is a registered trademark of Statistics Netherlands.

Acknowledgements

Acknowledgements

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