



**INSTITUTE FOR SOCIAL RESEARCH • SURVEY RESEARCH CENTER**  
**SURVEY RESEARCH OPERATIONS**  
UNIVERSITY OF MICHIGAN

# DIM – Device Instrument Manager

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SRO/TSG





# Introduction

- Using Blaise 5 for interviewer-administrated surveys pose unique technical challenges...
  - Running offline distributed surveys
  - Data Synchronization
  - Data Migration
  - Sequential Processing
  - Adherence to business Rules with Mixed mode complexity.
  - Integration with inhouse sample Management Systems





# Business Needs

- CBS (BLAISE) has Blaise Sync.
- Out of Box Blaise Sync did not meet our needs.
- We need to be able to couple and cascade commands for our in house Sample Management System (MSMS) and return command results.
- We completely leveraged CBS's APIs and built a wrapper around it called DIM.
- Offline Data Collection





# Project Scope

- Start the survey on the server before downloading it.
- Download new instruments to laptop.
- Migrate data when applicable.
- Download a new case.
- Resume survey on laptop after download.
- Pre and Post App execution
- Launch survey on laptop after download.
- Pull Values
- Upload case data for a single case.
- Upload case data for multiple cases.
- Resume survey on the server after upload.
- Download an existing instrument.
- Download an existing case.
- Delete case from the laptop (end of protocol).
- Delete instrument from the laptop (end of project).





# Expanded look at DIM





DIM - Device Instrument Manager





# Development and Testing

1. DIM GUI Gateway
  1. Graphical User Interface
  2. Isolate downstream bugs
  3. Rapid resource allocation analysis





# The Process

- Blaise Sync
- Run Survey
- Remove Case
- Remove Instrument







# Closing Remarks

- Deeper Insights into Basie APIs
- Collaboration with Blaise Team
  - Timely Bug Resolution





# THANK YOU

- CBS Blaise Team (and big thanks to Arno)
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- Peter Sparks
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# Questions?



## Contact Information

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