Manual Outline

1. Fundamentals of Data Synchronization
   1. Master and Slave Installations
   2. Export Sequence Numbers
      1. Gaps
   3. Site Masters
   4. Data Export/Import
   5. Synch Resolution Control Flow
   6. Types and Attributes
2. Basic CRUD operations
   1. Intro
      1. What is a data model
      2. Data integrity
         1. Differences between view and database
         2. Why a change can work in the resolver but break in the web
      3. Common problems on import
         1. Uniqueness violation
         2. Missing reference
   2. View
      1. Why?
      2. How
      3. Example
   3. Edit
      1. Why?
      2. How
         1. See attributes section
      3. Example
   4. Create
      1. Why? (Include warning)
      2. How
      3. Example
   5. Delete
      1. Why?
         1. Warning
         2. Constraints / cascade effect
      2. How
      3. Example
3. Relationships
   1. What are they?
      1. Concept
      2. Parents and children
      3. Attributes
      4. Common problems in import
         1. Parent/child missing
   2. View
      1. Why?
      2. How
         1. Search for parent/child type
         2. Explain tree structure
      3. Example
   3. Edit
      1. Why?
         1. Cannot change parent/child
         2. Few relationships have attributes
      2. How
      3. Example
   4. Create
      1. Why? (Include Warning)
      2. How
      3. Example
   5. Delete
      1. Why? (Include Warning)
      2. How
      3. Example
4. Attributes
   1. Intro
      1. Name-value pair
      2. Stored in db
      3. Benefits of having typed attributes
      4. The “No Value” concept
   2. Boolean
      1. What
      2. Widget
         1. Display Labels
   3. Char/Text
      1. What
      2. Widget
   4. Date/Time
      1. What
         1. Time Zones
      2. Widget
         1. Localization
   5. Numbers
      1. What
         1. Ints vs floats
         2. Legal input
      2. Widget
   6. Enums
      1. What
      2. Widget
   7. References
      1. What
         1. Conceptually
         2. Geo and term references
         3. Relationship participants
      2. Widget
         1. Edit
            1. Search process
         2. Clear value
   8. Structs
      1. What
         1. Display Labels
      2. Widget
5. Transactions
   1. What is a transaction?
      1. Transaction Items
      2. Transaction records
      3. Commits and rollbacks
      4. Relation to synchronization
   2. Viewing Transaction Records
      1. Why?
      2. How
      3. Example
   3. Export Transactions
      1. Why?
      2. How
         1. All
         2. Range
         3. Not Exported
      3. Example
   4. Import Transaction
      1. Why?
      2. How
         1. Conflicts can happen
      3. Example
6. Conflicts
   1. What is a conflict?
   2. Generic resolution methods
   3. Common conflict scenarios
      1. Uniqueness constraint
      2. Missing data
   4. Specific examples
7. Logging
   1. What is it?
   2. Why do we do it?
   3. Where?
      1. Change the log levels
      2. Log file locations
   4. How to use it
      1. Chainsaw
      2. Debugging