**Data Mapping Plan:**

**Integration of Consumer Data into SMART360**

1. Consumer ID:

Source: Consumer ID from ABC Utility Company's database.

Target: Consumer ID in the SMART360 Consumer table.

2. Name:

Source: Name from ABC Utility Company's database.

Target: First Name and Last Name in the SMART360 Consumer table.

Mapping: Split the Name field into First Name and Last Name.

3. Address:

Source: Address from ABC Utility Company's database.

Target: Address Line 1, Address Line 2, City, State, and Zip Code in the SMART360 Consumer table.

Mapping: Parse the Address field and map its components to corresponding fields in the SMART360 Consumer table.

4. Contact Number:

Source: Contact Number from ABC Utility Company's database.

Target: Phone Number in the SMART360 Consumer table.

5. Email Address:

Source: Email Address from ABC Utility Company's database.

Target: Email Address in the SMART360 Consumer table.

6. Account Number:

Source: Account Number from ABC Utility Company's database.

Target: Account Number in the SMART360 Consumer table.

7. Meter Number:

Source: Meter Number from ABC Utility Company's database.

Target: Meter Number in the SMART360 Consumer table.

8. Tariff Plan:

Source: Tariff Plan from ABC Utility Company's database.

Target: Tariff Plan in the SMART360 Consumer table.

9. Consumption History:

Source: Consumption History from ABC Utility Company's database.

Target: Consumption History in the SMART360 Consumer table.

10. Payment Status:

Source: Payment Status from ABC Utility Company's database.

Target: Payment Status in the SMART360 Consumer table.

**Mapping Schema:**

| **Field** | **Description** |
| --- | --- |
| Consumer ID | Unique identifier for the consumer |
| First Name | First name of the consumer |
| Last Name | Last name of the consumer |
| Address Line 1 | First line of the consumer's address |
| Address Line 2 | Second line of the consumer's address (if applicable) |
| City | City of the consumer's address |
| State | State of the consumer's address |
| Zip Code | Zip code of the consumer's address |
| Phone Number | Contact phone number of the consumer |
| Email Address | Email address of the consumer |
| Account Number | Unique identifier for the consumer's account |
| Meter Number | Identifier for the consumer's meter |
| Tariff Plan | Plan or rate structure for the consumer |
| Consumption History | Historical data of the consumer's energy consumption |
| Payment Status | Status indicating whether the consumer's payments are up-to-date |