VB/MO Client/Server Application: A UI “Make over” and “Tune up” of an AML/MENU Based Map Production Application

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What is MAPIT 1.0?

- An AML/MENU application (UNIX platform) for producing large-scale maps of parcel lines, planimetric data, and aerial photographs of Johnson County, Kansas.
- Developed by Tim Hensley

Who uses MAPIT 1.0?

- AIMS … Mapper of the Day (MOD)
- Appraiser’s Office
- Clerk’s Office
- Planning Department
- Wastewater
- Public Works

Arc: mapit

WELCOME TO MAPIT
Please select an output device:
AIMS Apple Color Laser Printer
AIMS HP 755cm InkJet Plotter
AIMS HP 3500 InkJet Plotter
AIMS Tek Phaser 220i Printer
Appraiser HP 755cm InkJet Plotter
Clerk HP 755cm InkJet Plotter
Clerk HP 755cm B InkJet Plotter
Clerk HP PaintJet Plotter
Clerk HP 2500 InkJet Plotter
ITS HP PaintJet Plotter
ITS HP 3500 InkJet Plotter
Pub. Works HP 650c InkJet Plotter
ROD HP 755cm InkJet Plotter
Wastewater HP 650c InkJet Plotter
Quit

MAP FORMAT
Action:
Add
List
Purge
Plot
Dismiss
Format: P9820
Map Type:
Aerial Photography
CDU
CIP
Land Use
Planimetrics Only
Map Layout:
Center on Parcel
Center on Section Corner
Quarter Section(s)
Section(s)
Specify Map Extent

OUTPUT PARAMETERS
Enter data and click Accept when done.
Prop ID:
Buffer – None
Map No:
Sec/Twp/Rng
Customer:
Quantity:
1
1
5
Quarter:
None All NE SE NW SW
Scale:
Auto 30 50 100 200 300 400 500
Customize:
None Text/Anno Overlays Planimetrics
Options:
Preview Map
Keep Customer
Print Invoice
Read File
Prior Entry:
Format:
Prop ID:
Map No:
Action:
Accept Price Dismiss
PLANIMETRICS
Choose Features:
Building
Other Building
Centerline
CHOOSE OVERLAY
Check to plot:
Nbhd/Models
Condominiums
Flood Plains
City Boundaries
TEXT AND ANNO
Check to label parcels:
P F
Prop ID
Kup#
Deed Acres
Calc Acres
Owner Names
Addresses
Land Use
Rural Zoning
Grades & CDU
Total Values
Tax Units
Check to display annotation:
Dimensions
Subdivision Names
Road Names
Map Numbers
Centerline Addresses
Default Text and Anno
No Text and Anno
Subject Parcel Only
Use Customized AML
Output a File
OK
Cancel

&amlpath /net/saturn/usr1/pub/apps/mapitlib/aims/amls,
/net/saturn/usr1/pub/apps/mapitlib/amls,
/net/jupiter/usr3/pub/apps/prop/amls
&run branchit.aml PRP01 K01 -- 9274
-- -- -- 011100000033000000 00000000000
004444444400100000 1 aims_hp3500

Simplified Diagram of the Back-end (ArcPlot) of MAPIT

Conceptual Design

AML

Parcel Viewer

Print | ZoomParc | ZoomAddr | ZoomSect | Entire | Back | Forward | Arrow | ZoomIn | ZoomOut | Pan | ParcInfo | ApprWeb | Sections | Parcels

VIEW: 10 of 10 | SCALE: 1" = 20007' | D05 (05-12-23) | Shawnee | 66226

Simplified Application Structure

Process Flow

1. Mapit 2.0 client application creates request, request information is stored in the database.

2. Mapit 2.0 client application sends request to the mail server.

3. Map server application retrieves request from the mail server.

4. Map server application sends request to the AML builder application.

5. AML builder application retrieves information from the database, and processes the request.

6. AML builder sends results of the processing back to the mail server.

Data Structure

Benefits of MAPIT 2.0

- Faster and more accurate handling of map requests
- Less training required of user
- Client app does not require ArcInfo
- History of map requests recorded
- Flexible expansion options

MAPIT 2.0 Secondary Benefits

- Standardized tools and languages used for development.
  - Integration with other Microsoft products and tools
  - Flexible expansion options
  - Advanced error checking and debugging tools available

Possible System Configurations

- Basic System
- Router Based System
- Remote System
- Clustered Server

Basic System Configuration

Router Based System Configuration

Remote System Configuration

Clustered System Configuration