Database and Management Systems

Minnesota Department of Transportation’s

Right of Way Electronic Acquisition Land Management System
and
Geographic Information System Viewer

REALMS/REALMS GIS
Overview

• REALMS
  – REALMS Development
  – REALMS configuration
  – REALMS Modules
  – New developments for REALMS

• REALMS GIS Viewer
  – REALMS GIS Development
  – REALMS GIS Configuration
  – REALMS GIS Module

• Actual Program
Development of REALMS

- 2004 MnDOT Nationwide Search
- Purchased Database Framework from Virginia DOT ($125,000)
- Hire consultant (Bearing Point) to program for MnDOT
- Code was changed between 85 and 90%
- Currently REALMS is 3.1 updated by internal staff
REALMS Configuration

- Web based DotNet (Version 4) front end application
- Oracle (Version 11G) back end
- Third Party form generation application called Aspose
- Windows 7 Screen setting 1024 by 768 Pixels
- Internet Explorer 6.0
REALMS Modules
New REALMS Development

• Adding Billboard Module
  – Permits
  – GIS Component

• Utility Module
  – Permits Historic and New
  – Agreements
REALMS GIS Development

• 2008 MnDOT set out develop a GIS component for REALMS

• Establish an ETL process (Extra-Translate-Load)
  – Tag Micro-Station R/W CAD Drawings
  – GIS geospatial shapes developed
  – GIS environment

• 2009 MnDOT develop a Web GIS Viewer
  – Integrated with our REALMS application

• REALMS GIS
REALMS GIS Configuration

- Web based DotNet (Version 4) application
  - REALMS and REALMS GIS use separate browsers
  - ArcGIS Server to provide map images

- Oracle (Version 11G) back end

- Internet Explorer 6.0
REALMS GIS Modules

Search for Project number.

This Project can be mapped in REALMS GIS by pressing “Map It” button.
REALMS GIS Modules
REALMS GIS Modules
Questions

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