April 2010

Oracle Spatial User Conference
Oracle Spatial
User Conference

April 29, 2010
Hyatt Regency Phoenix
Phoenix, Arizona USA
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Demonstration of Oracle Spatial-Based Asset Management and Decision Support System Software for Broadband Operators
Agenda

• Introduction
• What is iBISS Net?
• Reporting
• Google Earth
• SCOUT
• GPS integration
• Rate Center/Billing data
About Us

- 15 years of exclusive service to the CATV Industry
- IMMCO’s services encompass
  - Software Tools & Solutions
  - GIS & Database Services
  - Data Migration
  - Geospatial expertise
  - Certified Oracle DBAs
• Web-based, Java Application

Oracle 10g Database → Oracle Map Builder → Oracle Map Viewer

• Developed for CATV
  • Network data publishing
  • Asset management & analysis
  • GIS-enabled decision support system
Oracle Spatial Functions

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- SDO_RELATE
- SDO_NN
- SDO_FILTER
- SDO_MIN_MBR_ORDINATE
- SDO_CS.TRANSFORM
- SDO_UTIL.TO_GMLGEOMETRY
- SDO_AGGR_MBR
- SDO_CENTROID
- SDO_UTIL.GETNUMVERTICES

- MARQUEE ZOOM
- PDF CONVERTER
- MEASUREMENT TOOL
- REDLINE TOOLS
- CUSTOM INFORMATION WINDOW
- FOI
- JDBC THEMES
- GEO RASTER LAYER
IBISS Oracle Spatial Enabled Reports

- For Engineering Dept
  - Inventory Reports on Strand, RF, and/or Fiber
  - By fence, node, hub, franchise or any boundary

- For Operations
  - Addresses fed from fiber receivers, power supplies, amplifiers
  - Down stream address reports from any point in the plant
  - Billing Addresses – Active, Never Connected, or Disconnected

- For Marketing
  - Customer, service, or status
  - Business records by radius, cable / fiber buffer, or industry category
  - Thematic density, ratio
Google Earth Integration

- View OSP drawings over Aerial Imagery
- 3D View of Topography, Buildings, & OSP
- Rotational View, search & other analysis
SCOUT Integration

Live status of different modems in the network using scout web server

iBISS-Net: Web Interface

Tomcat Application Server 5.X

Land Base & other third party data
MapInfo Tab, JPEG, aerial imagery

Windows 2003 Runs on Sun Fire X4100, 4 vCPU / 16GB RAM

Oracle Spatial 10g 90 GB

DB Server

Call to SCOUT via HTML Web Services

Comcast SCOUT Web Server

VPN Connection
VIDEO

GPS Field Integration
Bing/Google Map Integration

• iBISS displays Bing and/or Google maps as a map tile layer.

• iBISS users can analyze their network data against third party data.
iBISS Net:
An Oracle Spatial-Based Asset Management and Decision Support System Software for Broadband Operators