GIMS V2 - a Tailored Tool

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Agenda

• 45th Space Wing
• History of GIMS
• Architecture
• Changing data to the Communication Mission Data Set (CMDS)
• Tailored Toolbar
• Advantages
Patrick Air Force Base

Home of the 45 SW Headquarters

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Cape Canaveral Air Force Station

- 20 miles north of Patrick AFB
- Point of origin for Eastern Range launches
45th Space Wing Manages Eastern Range

- Argentia (Newfoundland)
- Cape Canaveral Air Force Station
- Patrick Air Force Base
- Malabar Transmitter Annex
- Jonathan Dickinson Tracking Annex
- Antigua Auxiliary Airfield
- Ascension Auxiliary Airfield
GIMS editor was created using Arc/INFO 7.0
History of GIMS

- In 1996, GIMS V1 was created using Arc/INFO 7.0
- 2000 the Outside Cable Plant data collection from CSIR drawings and GeoReferenced using GPS data was completed
Communications Mission Data Set

- The 38th Engineering Installation Group (EIG) are the keepers of communications for the USAF
- The 38th EIG has developed the CMDS standards to be used throughout the Air Force
CMDS in a Multi-user GeoDatabase
CMDS in Oracle 9i
Architecture

Editor using ArcGIS 8.3

Server with ArcSDE 8.3 and Oracle 9i

Data pulled from the CIP and the CMDS
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GIMS V2 Toolbar

- Go to next Manhole
- New Manhole
- New Inner Duct
- New Equipment
- Tag Item
- New Duct
- New Cable

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Cable Information

Create Sheath

General
- Medium: Fiber optical
- Cable Material: Fiber Optics Cable
- Core: Filled Core
- Fill: Gel Filled
- Insulation: Plastic
- Buffer: Loose Fill

Composite
- Capacity: 12
- Gauge: 8.3

Miscellaneous
- Sheath Material:
  - 10
  - 13
  - 16
  - 18
  - 19
  - 22
  - 26

Create Cable Range
- Number: CF-48
- Pair Count:
  - Start: 25
  - End: 36

Cable Attributes
- ID: 12L8.3F
- Cable Ranges:
  - Number: CF-48
    - Start Pair: 25
    - End Pair: 36
Menu Choices

CMDS in Oracle 9i

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Advantages

• Uses the CMDS
• Standardized inputs
• Leverage the Geodatabase
  - Multi user functionality
  - Use of Oracle 9i
• More user friendly
• Multiple editors using versioning
• Reduction in production time
  – Old GIMS average 45 minutes per MH
  – GIMS V2  average 10 minutes per MH
• Production and QC rates improved
• Five Techs worked on a project the final QC rate was 99.2%
• Complete a project in half the time and collecting more data