National Geospatial-Intelligence Agency
Commercial Remote Sensing

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Cleared for public release NGA Case #07-154
Overview

- Importance of Commercial Remote Sensing (CRS)
- NGA’s CRS Contracts
- CRS - Now and in the Future
- Data Licensing and Copyright
- How to - Search and Retrieve the CRS data
The Importance of CRS

Commercial Imagery enables
-Cooperation with federal, state, and local authorities in support of Homeland Security

Force Protection Port Graphic – New York
Commercial Satellite Remote Sensing Contracts

NGA has multiple commercial satellite remote sensing contracts

- ClearView: Government contracts for imagery and imagery services from three domestic satellites (two companies) at one meter spatial resolution

- NextView: Government contracts for imagery and imagery services from current and next generation (half meter resolution) domestic satellites

- Low/medium resolution imagery and SAR data: Government contract with DoD/Title50 license
NGA has contracts to buy imagery from each of these platforms.
NGA has contracts to buy imagery from each of these platforms:

- ESA - Spot 4 and 5
- Indian Remote Sensing
- Canadian Space Agency Radarsat
- NASA - Landsat 7 and Earth Observing
CRS – NextView Future Capabilities

Expected benefits - available 2007/2008

1. Better Resolution - Next generation imagery (0.5-meter - pan)
2. Increase in daily Collection - area collection (over 100,000 sq km monoscopic and 40,000 sq km stereoscopic imagery; over 150 monoscopic/stereoscopic points)
3. More data delivered - Nominal delivery of over 60M sq km of pan imagery per year, per company
4. Faster delivery timelines - from tasking to delivery
   - Routine: NTE 36 hrs     Ad hoc: NTE 4 hrs
5. Lower prices - for imagery, imagery-derived products
   - Broad licensing agreements (one license for all official business)
Data Licensing & Copyright

License - who is authorized to use the data (licensee & temporary licensed users)

General License Provisions
- what users can do with the data

Copyright - who owns the data

Think of commercial imagery the same way you view software you purchase for your home computer!
Data Licensing

ClearView License Users

U.S. Government including, all branches, departments, agencies, and offices

Temporary Licensed Users:
- State Governments
- Local Governments
- Foreign Governments and inter-governmental organizations
- NGO's and other non-profit organizations

USG may provide the imagery to these organizations when the organization is working with the USG on a joint project.
Data Licensing

NextView License Users

U.S. Government including, all branches, departments, agencies, and offices

Other Licensed Users:
- State Governments
- Local Governments
- Foreign Governments and inter-governmental organizations
- NGO's and other non-profit organizations

USG may provide the imagery to these organizations
ClearView and NextView clarification

- ALL Data purchased by NGA from DG is NextView Licensed regardless of AOR.

- Some data purchased from GeoEye (Space Imaging) between 29 July 2005 and 1 Feb 2006 is NextView Licensed. The License depends on the area of collection and the way the data was purchased.

- Data purchased by NGA before Feb 2006 from GeoEye (Orb Image) remains ClearView Licensed.

- All imagery collected by GeoEye and purchased by NGA on or after Feb 1, 2006 is NextView licensed.
Copyright

• For **released** items only, license type must appear with Copyright on image, in metadata, or in credits if not practical to include on image, e.g. video. Examples:

  © 2004 Space Imaging LLC  
  DoD Title 50 and Coalition Forces License  
  Or  
  © 2004 Digital Globe  
  NextView License

• For **displayed** items license type need not appear
Copyright

Hardcopy - Minimum for release

Hardcopy - Minimum for display
Search and Retrieval

- Search Vendor Libraries
- Request New Imagery
Search Vendor Archives

http://www.geoeye.com/
Search and Retrieval

- **Fed/ Civ Customers Request New Imagery**

- **CIDR**
  - CRSSP
  - Imagery
  - Derived
  - Requirements Tool
CRSSP Imagery Derived Requirements Tool

Geographic Query of Areas of Interest (AOI's)

Select Bounding Box of Area to Query for Requirements

1. Use coordinates from a placename:
   - Pick names from this place names list:
     - United States
     - International
   - Zoom to Selected Place

2. Or...Enter bounding coordinates:
   - North Latitude: 90
   - South Latitude: -90
   - West Longitude: 180
   - East Longitude: 180
   - Zoom to Box
   - Zoom to Globe

3. And...Enter optional query parameters:
   - Select Fiscal Year:
     - FY 04
     - FY 05
     - FY 06
     - FY 07
     - FY 08

(Note: Please be patient; creating your shapefile...)

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Typical CIDR Query results

Click a requirement's ID number below to view its geographic area of interest (AOI) on the map. The selected requirement's AOI will be highlighted in green.

<table>
<thead>
<tr>
<th>Requirement Name</th>
<th>Resolution</th>
<th>Spectrum</th>
<th>AOI Description</th>
<th>Funding Status</th>
<th>Date Last Modified</th>
<th>DC Status</th>
<th>Valid Status</th>
<th>View Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Habitat Mapping</td>
<td>&lt; 5 m</td>
<td>no preference</td>
<td>USFWVs lands</td>
<td>Funded</td>
<td>2003-12-09</td>
<td>Validated</td>
<td>Permit Denial</td>
<td>Permit Denial</td>
</tr>
<tr>
<td>all</td>
<td>&lt; 5 m</td>
<td>no preference</td>
<td>Scattered polygons throughout the</td>
<td>Funded</td>
<td>2003-12-09</td>
<td>Validated</td>
<td>Permit Denial</td>
<td>Permit Denial</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Contiguous U.S.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Large scale Base</td>
<td>1 m</td>
<td>multispectral</td>
<td>All parks &lt;15,000 acres in</td>
<td>Unfunded</td>
<td>2003-12-08</td>
<td>Validated</td>
<td></td>
<td>Permit Denial</td>
</tr>
<tr>
<td>Maps for Small</td>
<td></td>
<td></td>
<td>Parking</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Permit Denial</td>
</tr>
<tr>
<td>Parks</td>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

Turn on Paging (first 10 requirements at a time)
Conclusion

- Importance of Commercial Remote Sensing (CRS)
- NGA’s has contracts to acquire CRS data
- CRS - Now and in the Future
- Keep in mind - CRS data has License and Copyright
- How to - search and retrieve the CRS data
Any questions?