



CJMTK Geospatial Appliance – An Introduction

Bill White – Northrop Grumman
Eric Linz - ESRI

CJMTK Geospatial Appliance – An Introduction

- What is the CGA Program
- Administration Tasks
- Integration



CGA Program

What is the CJMTK Appliance (CGA)?

- Set of integrated hardware, software and data content
- Dissemination of standard NGA products, world-wide (LimDis)

CGA Models

- Rack unit (CGAR09)



- Tower unit (CGAT10)



- Vehicle unit (CGAV09)



Why was the CGA developed?

- Initially for Command and Control (C²I) systems
- Some C²I programs plan for data integration from the start, most do toward end of development
- Magnitude of issue: > 10,000 CDs
- CGA fills the role as the “data provider”

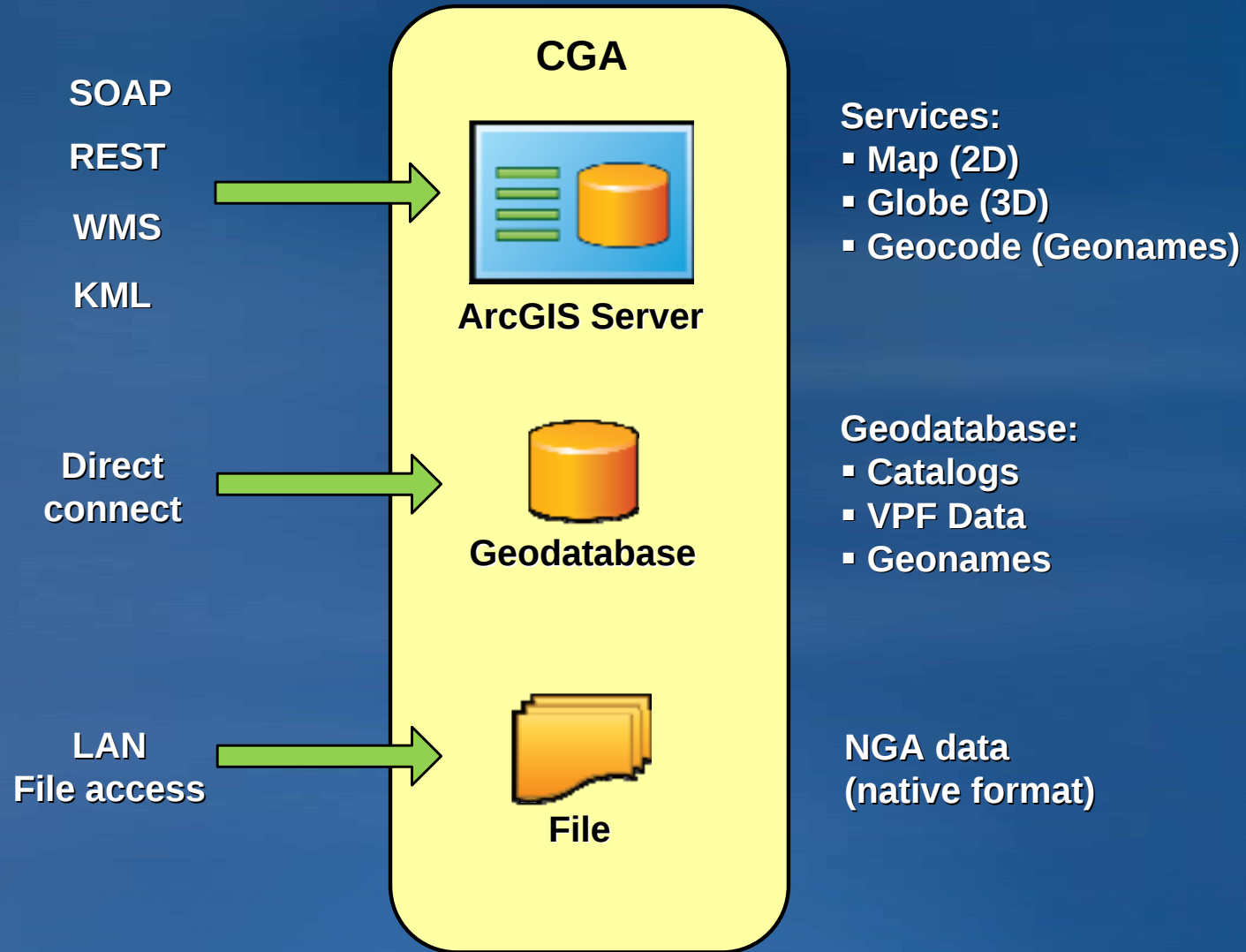
CGA Customers – As 15 January 2010

- Numbers of units
 - 38 units fielded
 - 6 units ordered and in process
- Customers include
 - DISA GCCS-J (5 units)
 - DIA (5 units)
 - STRATCOM (5 units)
 - SPAWAR, San Diego (4 units)
 - ONI (2 units)
 - MARFORPAC (2 units)
 - NAISIC (1 unit)
 - US Government (4 units)

Major components

- **Application Ready Data**
 - Standard NGA products – world wide
 - General non-NGA worldwide data
- **Preconfigured Content for Applications**
 - Web services
 - Map documents
 - Layer files

CGA access/integration methods



CGA home page

CJMTK Geospatial Appliance (version 2.0.1) - UNCLASSIFIED//LIMITED DISTRIBUTION - Windows Internet Explorer

http://localhost/

File Edit View Favorites Tools Help

CGMTK Geospatial Appliance (version 2.0.1) - (UNCLAS...)

CJMTK Geospatial Appliance

How to Connect to CGA Services	Provides instructions on how to connect to the CGA services from various client applications.	<i>For CGA System Administrators and Data Stewards</i> For details on permissions, data access, data maintenance, and many other administrative and data maintenance tasks, see the system administrator guide, available from the Start menu on the CGA unit.
Downloadable CGA Maps/Layers	Download preconfigured maps and layers from the CGA Users Help Page.	
Data Discovery	Utilize Voyager to search and export native files, datasets, and other geospatial resources on the CGA.	<i>Contact and Support Information</i> CGA Website: www.geospatialappliance.com Support Questions E-Mail: support@geospatialappliance.com
Web Application for Viewing Services	View each CGA service via a simple web map viewer, that includes basic navigation tools and a geocode service.	
Service Directory	Describes all CGA services by providing service descriptions, layer information, and supported interfaces.	
CGA Help	View an introduction to the CGA and find additional information about other capabilities offered by the CGA.	

NORTHROP GRUMMAN

VOYAGER
A Data Discovery Solution

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Version 2.0.1

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CGA
Geospatial Appliance
Solution

My Computer 100%

CGA web application (2.0)



Search/export web application (2.0)

- Web application for enhanced search capability for direct file access of NGA data/metadata
- Provides export capability

FalconView integration at 2.0

- Supports index that newer versions of Falcon/TalonView can read.
- After data load the index is updated
- Versions that support direct index access
 - TalonView 4.1.1 build 1640
 - FalconView 4.1.1 build 16 (only raster at this time)
- Earlier client versions will still need to rebuild index manually

Major components (continued)

- **Content Management Tools**
 - Map database / cache updates
 - Data Administration



Data Content

Data content – NGA *

- Native NGA formatted data stored on appliance
- Compressed ARC Digitized Raster Graphics (CADRG)
 - Global Navigation Chart (GNC)
 - Jet Navigation Chart (JNC)
 - Operational Navigation Chart (ONC)
 - Tactical Pilotage Chart (TPC)
 - Joint Operations Graphic (JOG)
 - Topographic Line Map – 1:100k/50k/25k/24k (TLM)
 - City Graphics (various scales)
 - Other

* All data is unclassified; NGA data is Unclassified\\Limited Distribution

Data content – NGA (continued)

- **Controlled Image Base (CIB)**
 - Orthorectified imagery
 - 10m, 5m and 1m resolutions
- **Digital Terrain Elevation Data (DTED)**
 - Level 0 (~1000m)
 - Level 1 (~90m)
 - Level 2 (~30m)
- **Shuttle Radar Topography Mission (SRTM)**
 - Levels 1 and 2
 - “Finished” version
 - DTED format

Data content – NGA (continued)

- **Vector Product Format (VPF)**
 - VMap0
 - VMap1
 - VMap2
 - UVMaP (various scales)
 - Digital Nautical Chart (DNC) – General, Coastal, Approach, Harbor
- **Automated Air Facilities Intelligence File (AAFIF)**
 - Airfield information

Data content (continued)

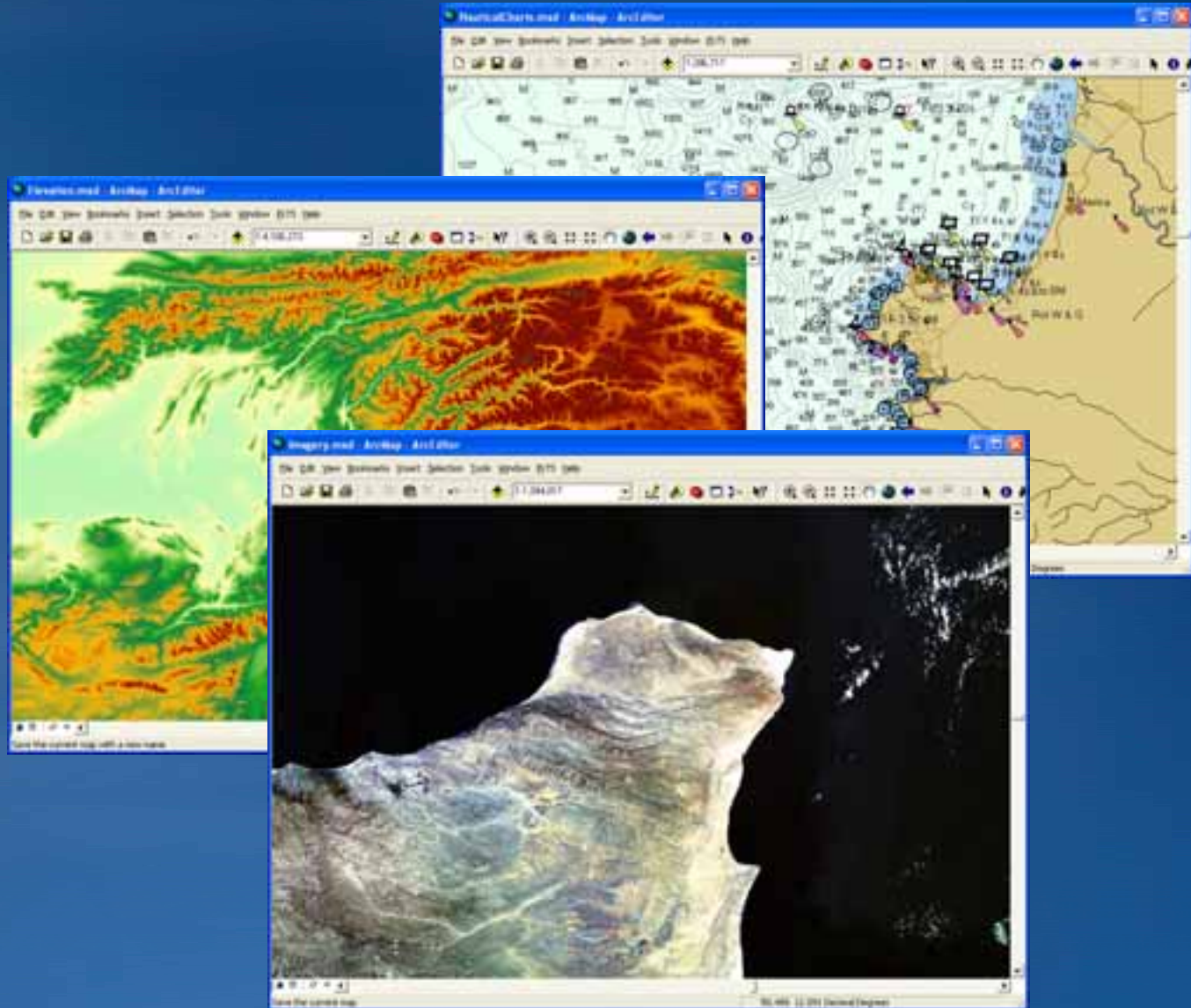
- NaturalVue – 15m color world-wide imagery
- ESRI ArcGIS Data & Maps
- ESRI ArcGIS Online World StreetMap 2D service (down to 1:1M)
- Geonames/gazetteer
 - NGA Geonames (GNS)
 - USGS Geographic Names Information System (GNIS)

Data content – user data

- **Not limited to CGA services/data content**
- **Your own data can be served out from the appliance**

Data is organized thematically

- Maps
 - CADRG
- Imagery
 - CIB
 - NaturalVue
- Vector Maps
 - VMap
 - UVMMap
 - AAFIF
- Nautical Charts
 - DNC
- Elevation
 - DTED
 - SRTM

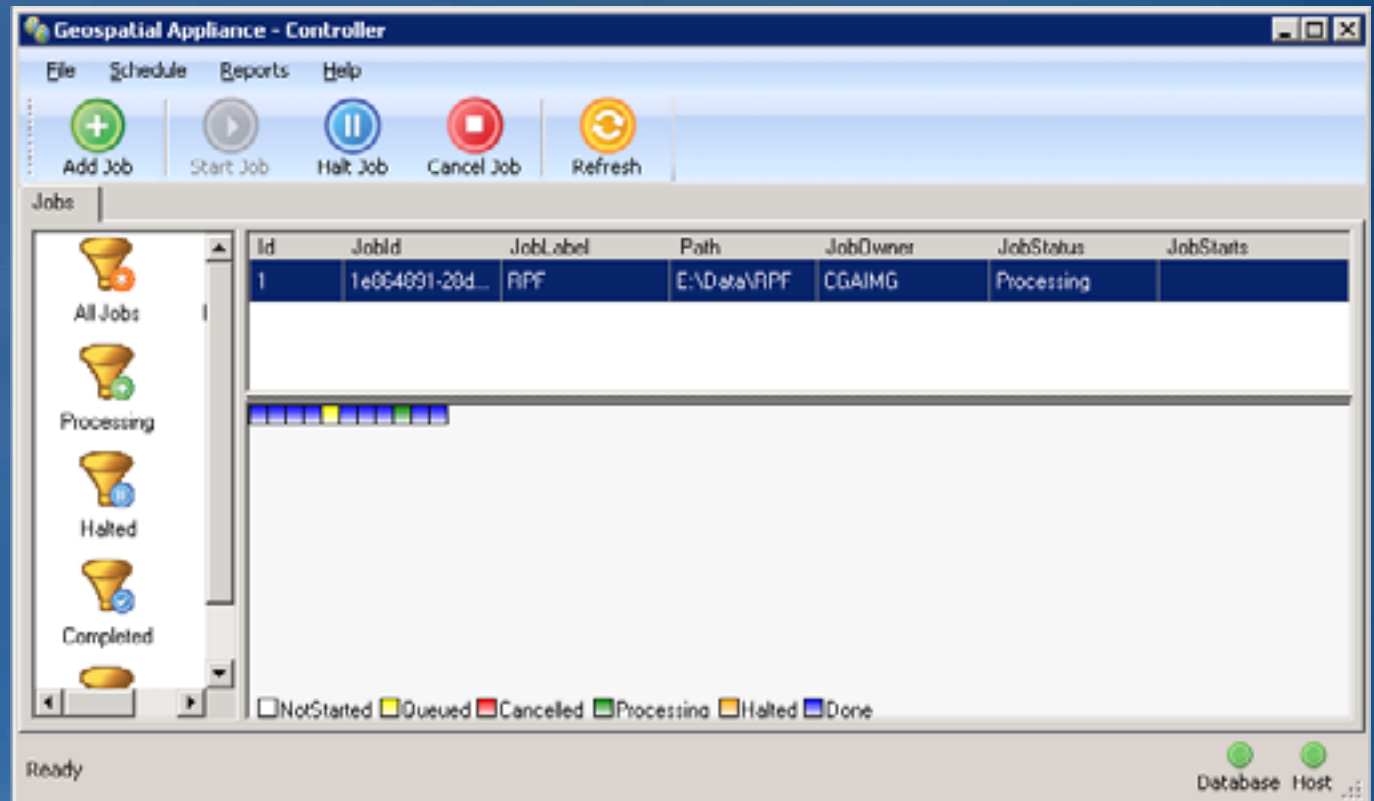




Content Manager

CGA Content Manager – “Controller”

- NGA data loading application
- Easy to use
- No knowledge about data is required
- Fault tolerant



CGA Content Manager – data load/update

- Handles data load and update
- Updates data caches
- Uses metadata captured during data load to determine currency
- Force overwrite option

Data load scenarios

Edition 1



Edition 2



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Edition 2



Edition 2



Edition 1



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Edition 2



Force overwrite...

Edition 2



Edition 1

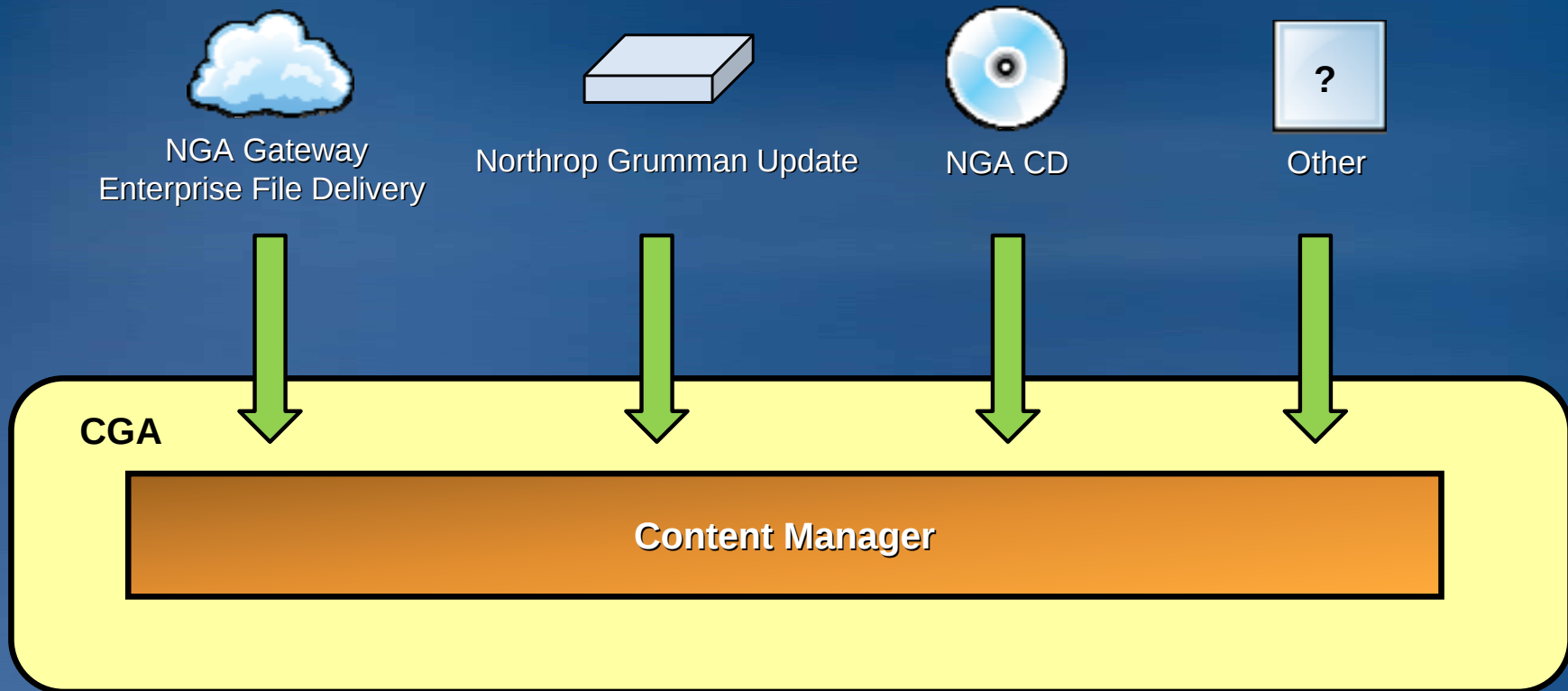


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Edition 1



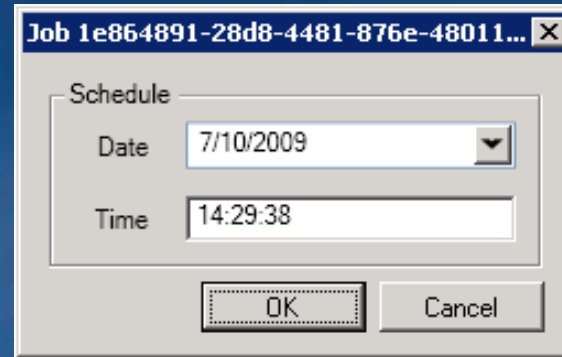
CGA Content Manager – update paths



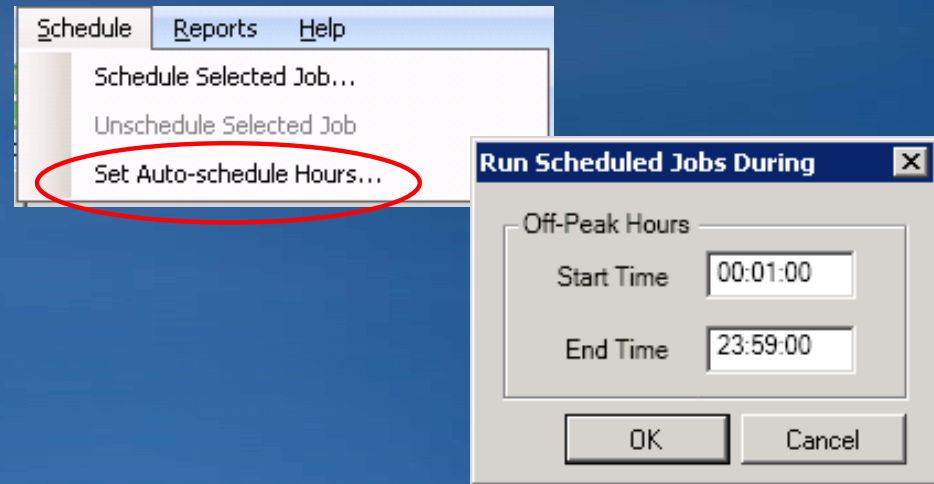
Format and product type matter; not the delivery mechanism

CGA Content Manager – job scheduling (2.0)

- Jobs can be scheduled



- Schedule "window"



CGA Report Dashboard (2.0)

- Central location for accessing log/event information
- Types:
 - Jobs/tasks*
 - Event logs
 - ArcGIS Server/IIS logs
 - Controller function logs
- “Group by” functionality



* Supports copy/paste



CGA Service and Support

CGA service plan

- First year of service plan included
- CGA Help Desktop support from Northrop Grumman
- ESRI Customer support
- Updates
 - includes accumulated NGA updates
 - updates to ESRI and CGA software
- Hardware warranty
- Hardware refresh

CGA support and information

- Visit the CGA web site for
 - CGA Order information (including Request for Quote form)
 - Additional Information on the CGA
 - Help Desk Support
 - Restricted site is for:
 - IAVA update results
 - Gold Disk Scan results
 - Download area
 - Sys Admin Guide
 - Software Release Notes
 - etc.



www.geospatialappliance.com

Security accreditation support

- **Working with Government Sponsors:**
 - JWICS
 - SIPRNET
- **Working with individual agencies/sites:**
 - Documentation Support
 - Software baseline/Version Description document
 - Requirements etc,
 - Security updates
 - IAVA testing
 - Gold Disk Scan results



Questions?



Thank you for attending