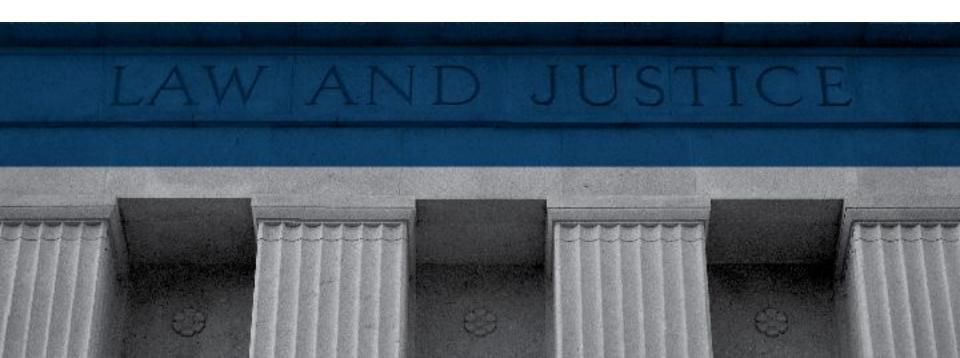


# **Overview of Court Information Technology**

Presented to the Joint Legislative Oversight Committee on Justice and Public Safety

April 10, 2014

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### **Agenda**

- IT Service Delivery Drivers in North Carolina
- Connecting People Using Technology
- Performing Work Using Technology
- Connecting Processes Using Technology
- Information Technology Challenges
- Next Steps

# North Carolina Geography and Demographics

- 100 counties seventh most in U.S.
- ~10 million population tenth largest in U.S.
- Wide range of populations in counties:
  - Mecklenburg has ~960,000 population
  - Tyrrell has ~4,200 population
- Travel time from Murphy to Manteo by car is ~10 hours
- Travel time from Warrenton to Bolivia is ~4 hours
- Nearly 49,000 square miles in area

A geographically dispersed organization is challenged by time, size, and distance.





### **N.C.** Administrative Office of the Courts

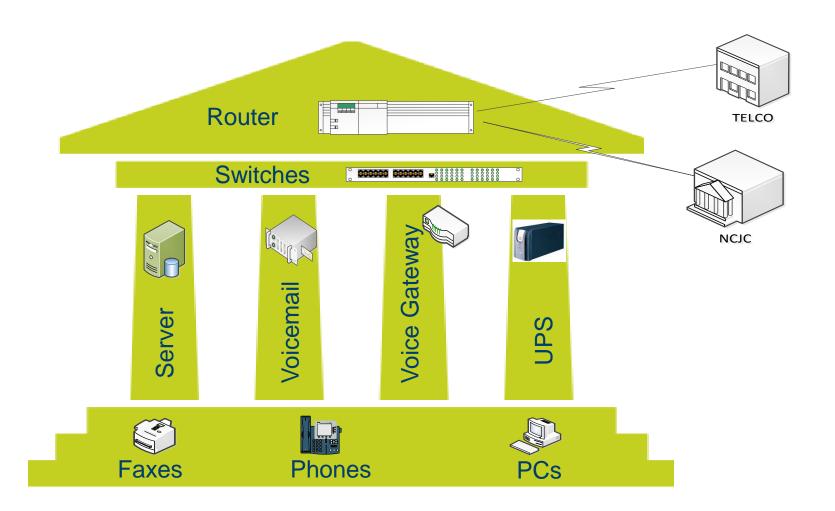


### **NCAOC Serves Diverse User Interests**

- 533 elected officials
  - 7 Supreme Court Justices
  - 15 Court of Appeals Judges
  - 97 Superior Court Judges
  - 270 District Court Judges
  - 44 District Attorneys
  - 100 Clerks of the Court
- 696 appointed officials
  - 15 Special Superior Court Judges
  - 681 Magistrates

- ~6,600 Judicial Branch employees in total
- 33,000+ law enforcement officers
- Nearly 10 million citizens
- 1,600 courtrooms (2008)

### The Anatomy of a Courthouse



### Distribution of NCAOC's Networked Locations

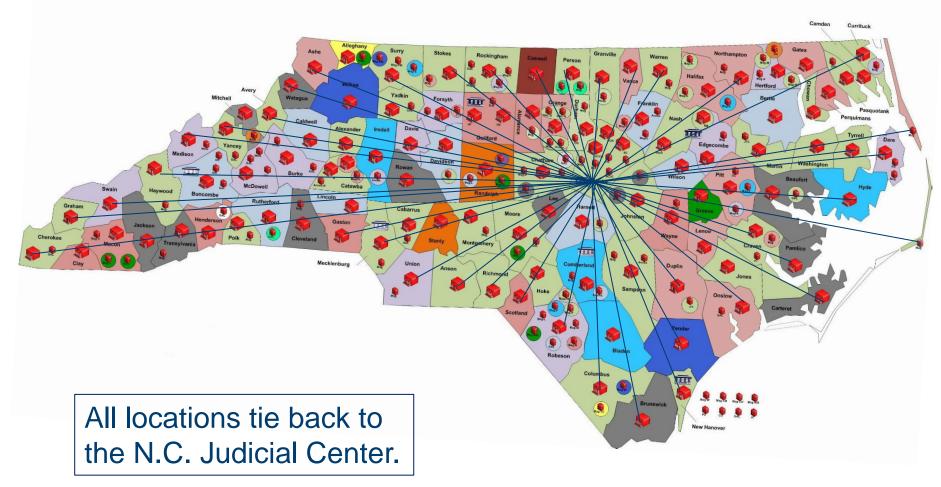
Locations: 250+ IT Components: 25,000+



- 9,500+ PCs, monitors, mice, etc.
- 9,300+ telephones
- 4,900+ printers
- 100+ local servers
- 246+ network circuits
- 420+ public access terminals
- Many faxes, routers, switches, copiers, etc.



### **Distribution of NCAOC's Networked Locations**



# North Carolina Judicial Center Data Center – Partial Equipment List

- 2 mainframe computers
- 575 data center servers
- 3 storage area networks (~1.4 PB)
- Data replication system
- Tape backup systems
- Uninterruptible power supplies
- Backup power generator
- High availability/redundant architecture
- Disaster Recovery

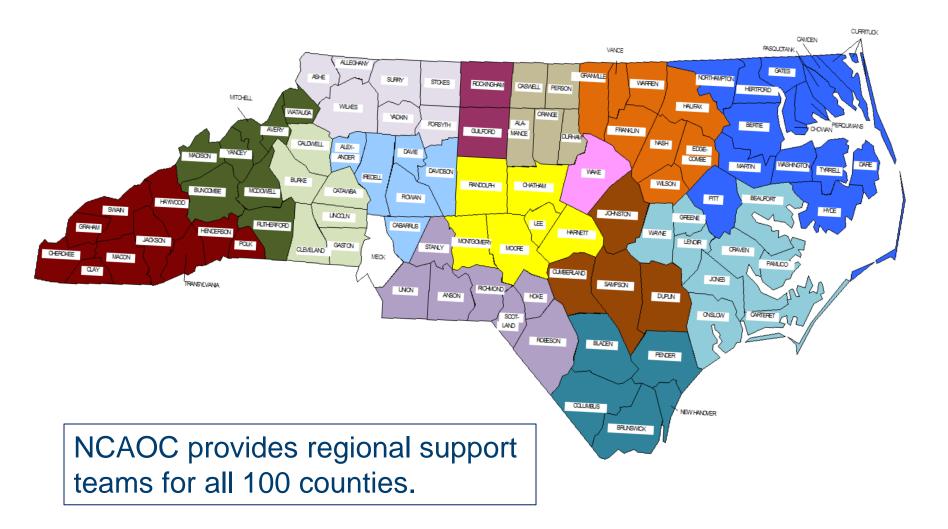


# **North Carolina Judicial Center Network Operations Center**

Provides 24 x 7 x 365 network monitoring



### **Distributed Computing Services Support Map**



### N.C. Administrative Office of the Courts

Technology Services Division Applications Development

Performing Work Using Technology



### Selected NCAOC Applications and Systems

#### AOC supports over 50 major applications including:

- **Automated Criminal/Infractions System (ACIS)** 
  - ~2.3 million cases filed
  - ~2.4 million case dispositions
  - ~1 million transactions/day
  - 25,000 users

#### NCAWARE

- Over 10 million processes (served and unserved)
- 1 million+ processes/year
- 40.000+ court and law enforcement users

#### **eCitation**®

- ~8 million ecitations processed since inception (1999)
- 86.3% of all non-arrestable citations statewide
- ~3,300 ecitations created each day
- Used by over 17,000 officers in over 400 law enforcement agencies

#### payNCticket®

- 420,000 citations paid; \$91.3 million collected
- **Credit Card Payments (Courthouse)** 
  - To date: 52 counties: over 10,000 transactions: over \$2 million collected

### N.C. Administrative Office of the Courts

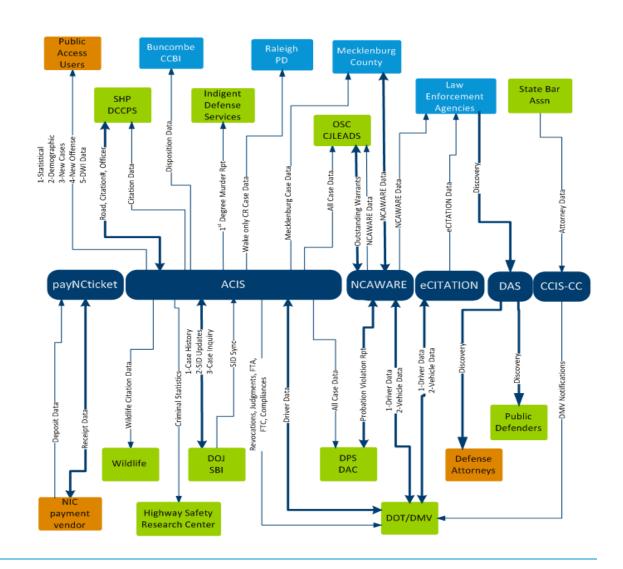
**Technology Services Division Application Interfaces** 

Connecting Processes Using Technology



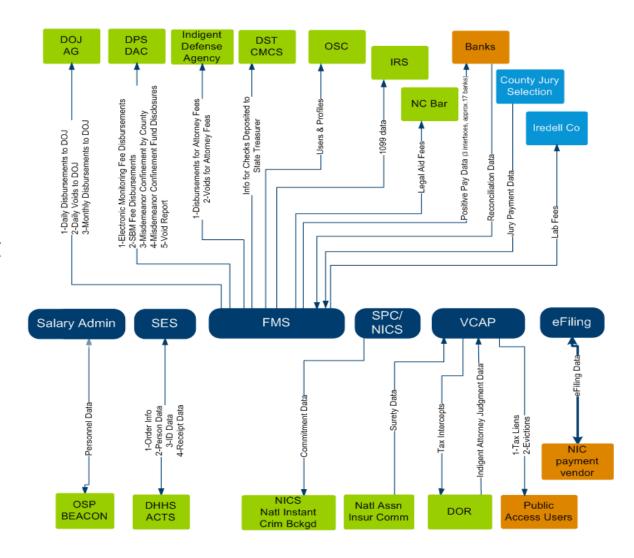
## **Interfaces To and From Criminal Court Systems**

- 12 real time interfaces
- 17 batch interfaces
- 14 government agencies
- Vendors
- Private entities



### **Interfaces To and From Non-Criminal Court Systems**

- 1 real time interface
- 18 batch Interfaces
- 14 government agencies
- Vendors
- Private entities





# **NCAOC** Judicial Branch Applications

NCAOC maintains over 50 Judicial Branch applications

Age of existing enterprise applications:

_	Less than	5	years	1	1
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More than 20 years old



Old technology is costly and increasingly hard to maintain.

## Information Technology Workload



- 19 major projects currently underway
  - 11 application development projects, including: CCIS-CC 5.5 (June 2014); Court
     Time (legislative mandate); CMS-PD replacement; and, Credit Card Payment rollout.
  - <u>8 infrastructure projects</u>, including: redesign Courtnet; database management system upgrade; mainframe operating system upgrade; Magistrate Video rollout; and, email and file archiving.
- ~2,000 requests for application enhancements and fixes
- ~80 major project requests have been logged
  - Application development projects include: ACIS replacement; Discovery Automation System enhancements; expand eFiling capabilities; micrographics/electronic content management; and, many others.
  - <u>Infrastructure projects include</u>: disaster recovery enhancements; operating system upgrades; expand video capabilities; mobile device encryption; automated password resets; enhance information security capabilities; and, others.

Growing demand for new technology requires consistent resources.

# **Maintaining the Installed Base**

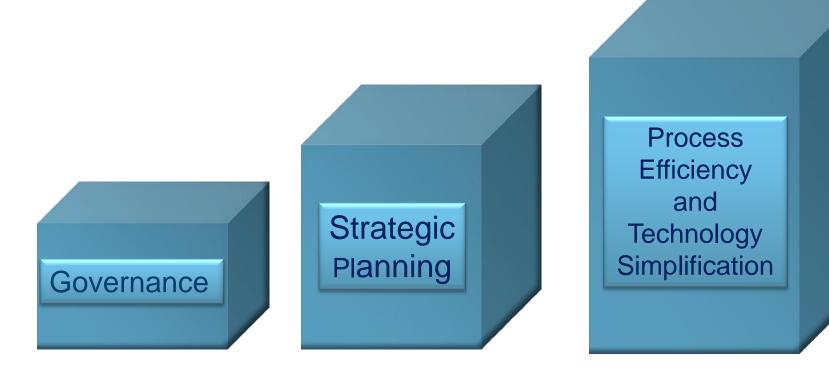
Budget Category	Annualized Cost						
Hardware/Software/Services							
Network Communication Services	\$4,500,000	Data and voice circuits					
Hardware Lifecycle Replacement	\$5,500,000	PCs, printers, servers, phones, scanners, switches, routers, etc.					
Hardware Maintenance	\$1,000,000	Mainframe services, routers, switches, DR, etc.					
Software Licensing and Maintenance	\$5,000,000	Database, operating system, desktop, tools, applications, DR etc.					
Subtotal HW/SW/Services	\$16,000,000						
Personnel Supporting Installed Base							
Infrastructure/Helpdesk Support (93% of internal staff)	\$8,700,000	24x7 support for network, systems, voice, and video across state					
Application Development/Support (75% of internal staff)	\$7,300,000	Patches, upgrades, fixes, and operations support for 50 applications and 48 interfaces					
Subtotal Personnel	\$16,000,000						
Total Installed Based Support Cost	\$32,000,000						



## **Competition for Talent**

- Within the last 1.5 years:
  - AOC Infrastructure section lost 6 highly skilled staff to local companies for compensation-related reasons.
  - AOC Application Development section lost 3 highly skilled staff to local companies for compensation-related reasons.
  - In each case, the offered salary was \$8,000 to \$30,000 more than their current salary at AOC. In at least 1 case, the new company offered a hiring bonus.
  - We are experiencing an increasing number of rejected offers due to uncompetitive salaries for the most sought after skills.

## **Next Steps for AOC Technology**





### **Questions and Comments**

### Thank You

