



# Successful SPEEDE Electronic Document Exchanges

## AACRAO Annual Meeting

April 21-24, 2010

New Orleans, LA

SPEEDE – A Professional Development Committee of *AACRAO*  
American Association of Collegiate Registrars and Admissions Officers



## Presentation Focus

- Brief description of statewide collaborative partnership
- North Carolina's statewide approach to implementing SPEEDE electronic document exchanges for high school transcripts
- System infrastructure overview focusing on SPEEDE standards and increased services for high school students

## Statewide collaborative partnership

- College Foundation of North Carolina (CFNC) is a partnership requested by the UNC Board of Governors and funded by the 1999 General Assembly
- ★ Mission is to increase the college going rate in NC with particular attention to first-generation, low income students

## Statewide collaborative partnership

501 (c) 3  
Financial Aid  
Agency

Host of statewide  
college access  
web portal -  
CFNC.org



State Guarantor

- Scholarships
- 529 program

State-funded K-16  
partnership...

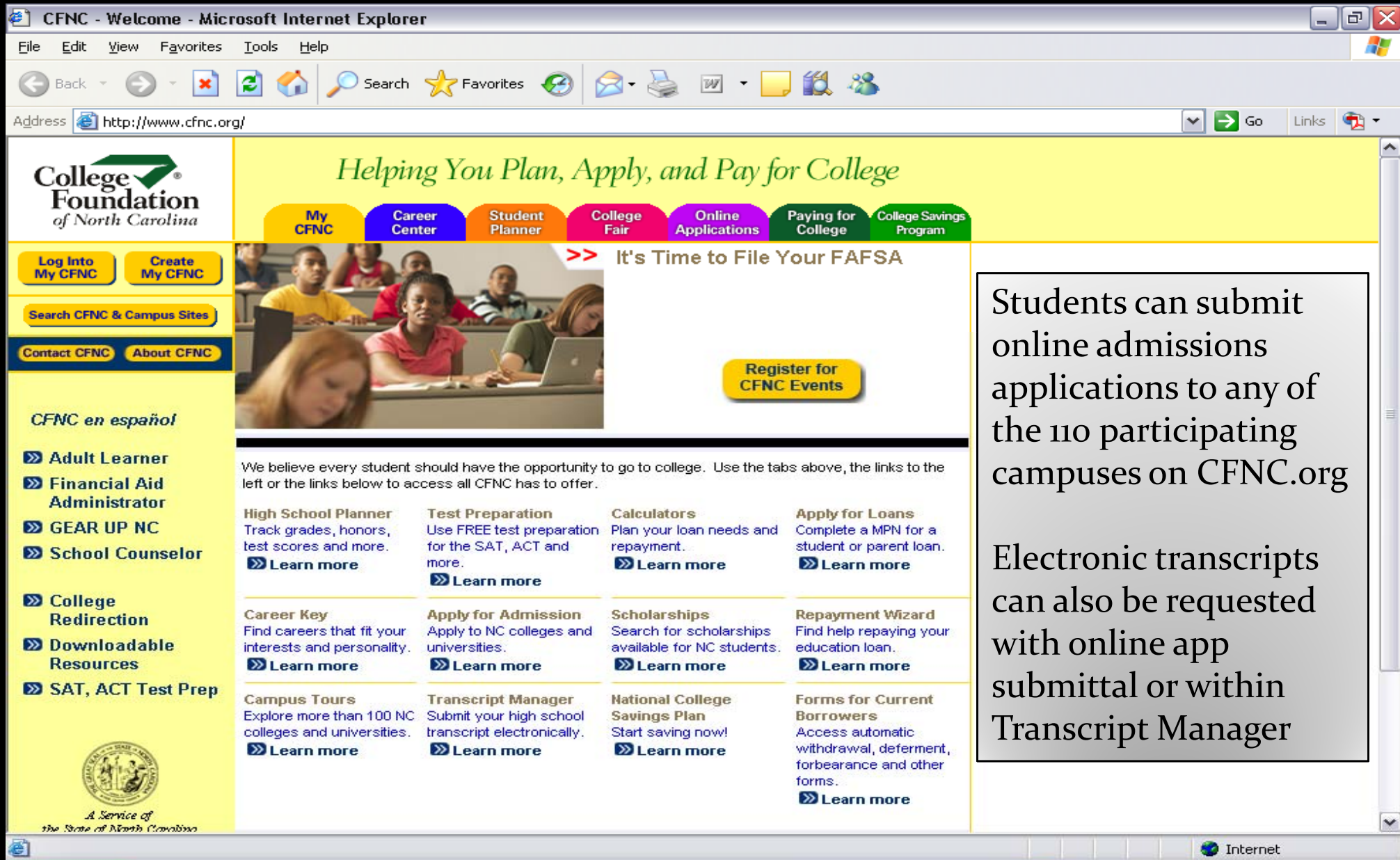
- DPI
- NCCCS
- UNC
- NCICU

...administered by  
UNC General  
Administration

## North Carolina – why electronic?

- North Carolina's eHST initiative began on/before 1999 - funding provided for the public schools to convert to a common SIS System, "NCWISE"
  - Requirement of funding to implement eHSTs
  - Capitalize on state resources & technology already in place
    - Common SIS System (NCWISE)
    - NC Standardized HS Transcript
    - Central Repository

# Statewide College Access Portal – CFNC.org



**My Transcripts - Mozilla Firefox**

File Edit View History Bookmarks Tools Help

https://www1.cfnc.org/externalscripts/my\_cfnc/my\_transcripts/transcript\_mana

Customize Links Free Hotmail SideStep Windows Marketplace Windows Media Windows

Foundation of North Carolina

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**My CFNC** **Career Center** **Student Planner** **College Fair** **Online Applications** **Paying for College** **College Savings Program**

Tuesday, June 19, 2007

## Transcript Manager for Robin Greene

**THESE ARE THE COLLEGES/UNIVERSITIES TO WHICH YOU MAY SEND YOUR TRANSCRIPT:**

Select one from the list and click **[Send My Transcript]**

- Alamance Community College
- Appalachian State University
- Asheville-Buncombe Technical Community College
- Barton College
- Beaufort County Community College

[Send My Transcript](#)

**TRANSCRIPT REQUEST STATUS:**

ID	Transcript Type	Campus Name	Status	Date Requested	Progress
15569	Current (In Progress) Transcript	Appalachian State University	Cancelled	11/1/2004 11:48:00 AM ET	Requested Record Will Not Be Sent; Cannot Identify the Record
15570	Final (Graduation) Transcript	Appalachian State University	Cancelled	11/1/2004 11:48:00 AM ET	Requested Record Will Not Be Sent; Cannot Identify the Record
16326	Current (In Progress) Transcript	Alamance Community College	Cancelled	1/10/2005 3:09:00 PM ET	Requested Record Will Not Be Sent; Cannot Identify the Record
16327	Final (Graduation) Transcript	Alamance Community College	Cancelled	1/10/2005 3:09:00 PM ET	Requested Record Will Not Be Sent; Cannot Identify the Record
16766	Current (In Progress) Transcript	Belmont Abbey	Cancelled	1/31/2005	Requested Record Will Not Be Sent; Cannot Identify the Record

Done

www1.cfnc.org

Transcript Manager - student provides login credentials and data criteria before request can be made

- First and Last Name
- Date of Birth
- NCWISE Student ID
- Gender
- Current High School
- E-mail Address
- NCWise school



**My Transcripts - Mozilla Firefox**

File Edit View History Bookmarks Tools Help

https://www1.cfnc.org/externalscripts/my\_cfnc/my\_transcripts/transcript\_mana

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Done

www1.cfnc.org

Transcript Manager - provides tracking

- All transcript activity (current and final)



# System Infrastructure Overview

\*

## 3 NCWISE data repositories

### 2 Electronic High School Transcript Processes

\*

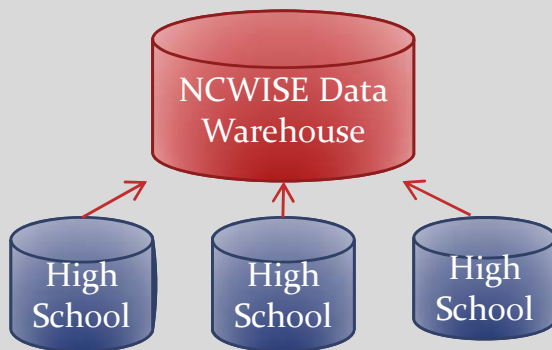
1. **NCDPI Main** – host for 480 public/charter HSs (eHST process uses ANSI X12 EDI transaction sets with the UT Austin SPEEDE Server)
2. **Wake County** – host for 26 public HSs (eHST process uses PESC XML high school transcript schema and web services)
3. **Charlotte-Mecklenburg County** – host for 32 public HSs (eHST process not yet implemented)

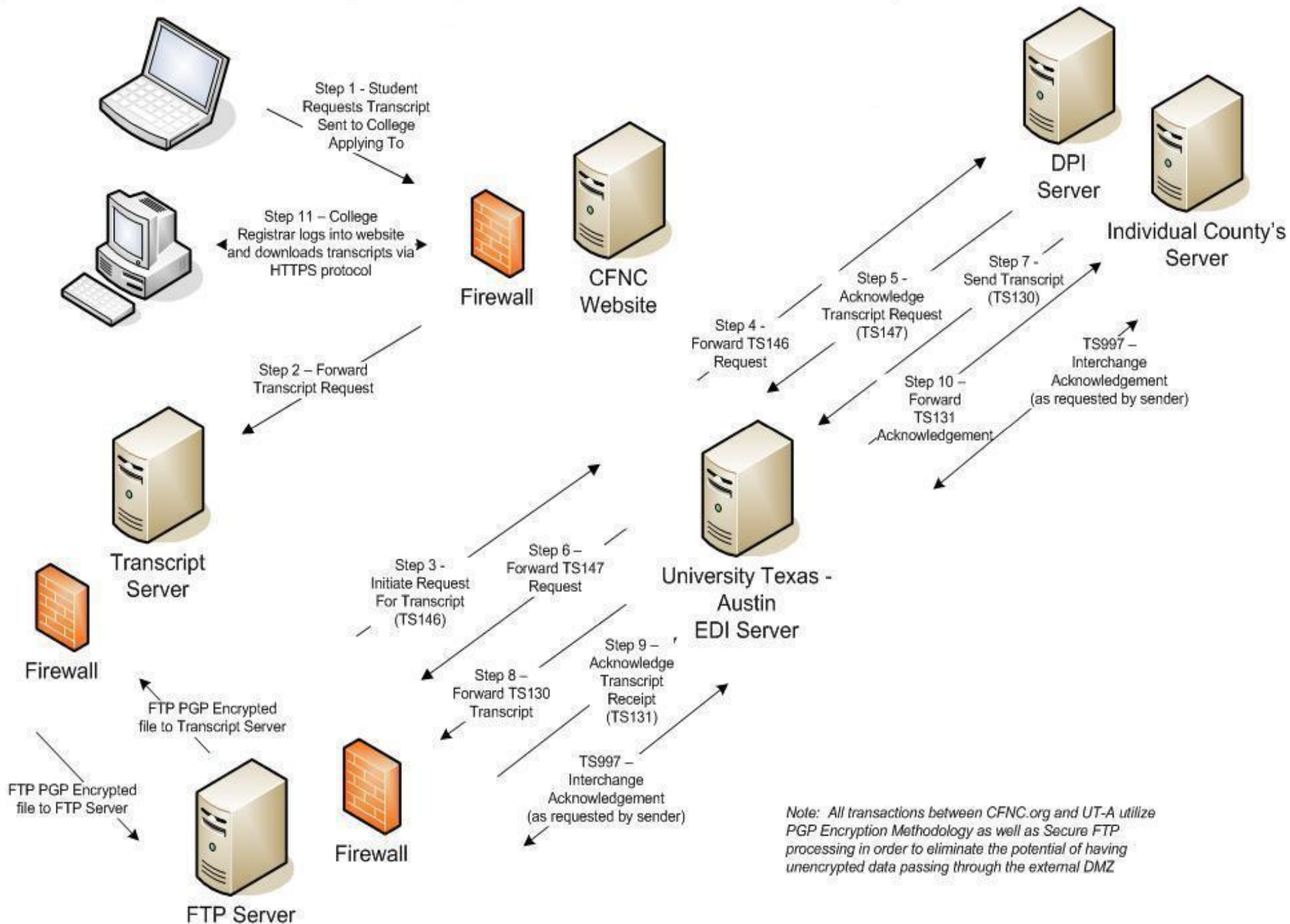
# SPEEDE Electronic Document Exchange

## High School Transcripts – NCDPI Main Data Center

- ANSI X12 data standards:
  - TS146
  - TS147
  - TS130
  - TS131
  - TS997
- UT SPEEDE Server
- 2 Trading Partners – DPI & CFNC

### NCDPI – Data Center





## **SPEEDE Electronic Document Exchange High School Transcripts – NCDPI Main Data Center**

System went live in 2003 with 33 high schools – added schools to CFNC Transcript system as they were converted to NCWISE

- Fall 2003 – 33 high schools
- Fall 2009 – 480 high schools

Process approximately 9,000 transcripts / month

- Heavier traffic in fall and early summer



# SPEEDE Electronic Document Exchange High School Transcripts – NCDPI Main Data Center

## Advantages

Current transcript request created & processed with about a 24-72 hour turnaround time from request to delivery

Final transcript request automatically created – released when final grades and diploma received dates are posted at the high school level

Student Tracking

Counselor Tracking

## Disadvantages

System is complex and sometimes difficult to track errors

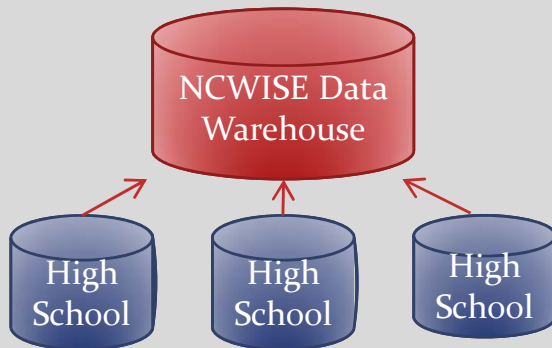
Increase in turnaround time when errors occur

Final transcript requests get created BEFORE system knows the current transcript processed successfully – creates additional unnecessary work and bandwidth on the system

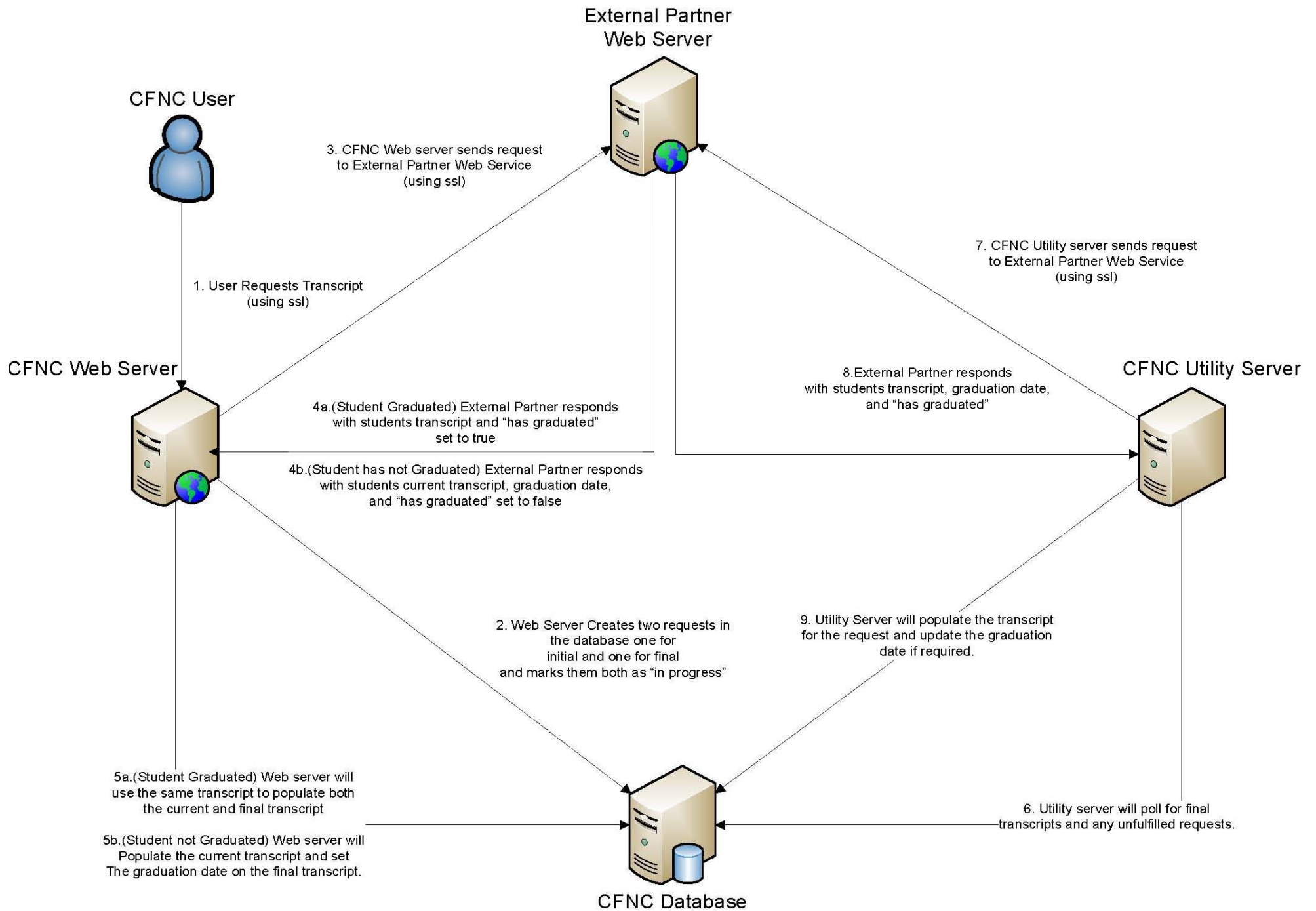
Increased usage over the years – system not equipped to handle large files

# SPEEDE Electronic Document Exchange High School Transcripts - Wake Co. Data Center

## Wake Co – Data Center



- PESC XML Schemas:
  - Request
  - HS Transcript
- Web Services
- 2 Trading Partners – WC & CFNC





## **SPEEDE Electronic Document Exchange High School Transcripts - Wake Co. Data Center**

System went live in May 2009 with 8 high schools –

- Fall 2009 – 23 high schools

Process approximately 2,200 transcripts / month

- Heavier traffic in fall and early summer



# SPEEDE Electronic Document Exchange High School Transcripts – Wake Co. Data Center

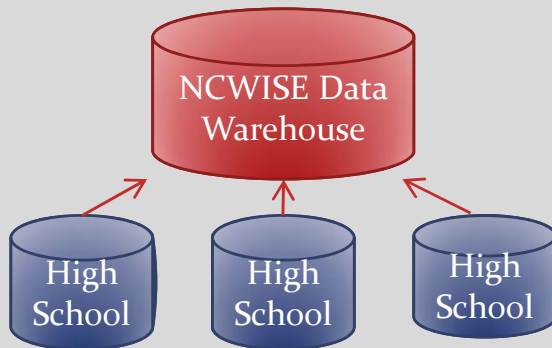
Advantages	Disadvantages
Real-time delivery of current transcript	Had to write mapping for XML to EDI to conform to current system
Final transcript request automatically created AFTER successful response from current transcript request	
Student Tracking	
Counselor Tracking	

# SPEEDE Electronic Document Exchange

## High School Transcripts

### Charlotte-Mecklenburg Data Center

#### CMSS– Data Center



- Future development for electronic transcripts
- Recommended XML / Web Services infrastructure

## For the CFNC Participating Colleges

- 110 Colleges & Universities on CFNC.org
- Authenticated Administrative Center to download CFNC data
  - Prospects
  - Applications
  - Transcripts
- Transcript formats for colleges

PDF	•Manual load •Import to imaging system
TS130	Import to SIS
XML	Import to SIS

# Sustainability

- ★ Student interface (CFNC.org) for high school transcript ordering is the same (regardless of back-end processing)
- ★ Exclusive Agreement between CFNC and NCDPI for electronic high school transcript processing
- ★ SPEEDE Standards utilized in all electronic transcript document exchanges

ANSI X12 EDI	File Transfer Protocol
PESC XML Schemas	Web Services

## Sustainability (continued)

- ★ NCDPI Data Center - processing at maximum capacity with 479 high schools – discussions in process of upgrade to PESC XML and Web Service technologies (using Wake Co. Data Center as proof of concept infrastructure)
- ★ Increased usage/volume as high schools are added to the CFNC Transcript System
- ★ Consistent encouragement for use of data standards when enhancements and/or upgrades occur

## Future Development

- ★ Implement electronic transcripts among the 110 CFNC participating colleges using PESC XML and Web Service technologies (early design phase)
- ★ Enhance existing high school electronic transcripts to provide capability to send eHSTs out-of-state



# Questions?



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