

**KEN Applications Subcommittee
Work Group on Data Transfer**

Charge:

The Data Transfer work group will identify the requirements for secure and reliable data transfer capability necessary to impact teaching and learning within the Commonwealth. Once the requirements are collected, the work group will examine possible options that will address the requirements as the KEN network evolves.

Scope:

Examine Industry standards, best practice Data transfer protocols, types of encryption and other security issues, and any corresponding products that will address the requirements.

Timeline:

July 18, 2007 – Mid-project progress report to the KEN Applications Subcommittee
September 1, 2007 - Recommendations due to the Subcommittee

Work Group Members:

COT – Teri Ogden*
CPE – Stuart Johnston
Education – Liz Stafford*
EPSB – Scott Smith
KCTCS –Rick Chlopan
KDE – Lee Muncy*, Robert Grissom, Martin Herbener

Where We Are in the Use of This Application:

1. Each of the KEN partners use various types of data transfer methods depending on the need/types/sizes of data.
2. The Commonwealth Office of Technology has the responsibility for leading and enacting standards for state agencies including those in the KEN partnership. They have created the Kentucky Enterprise Data Structure Group. It has charted its' strategic vision and this report can be found at:

http://technology.ky.gov/policies/architecture_and_stds.htm

3. Best practices for Data Transfer include using:

- HTTP
- FTP over HTTP
- FTP over TCP
- FTPS (for mainframe file transfer)
- HTTPS (secure transport)
- NNTP
- MMS
- TSPard
- ICAP

and

- IPsec,
- SSL,
- SSH

as types of security methods/modes
4.

Where We Want to Go in the Use of This Application:

We want to ensure that the partners in KEN are able to:

- Use various types of data,
- Be able to use transactional data,
- Have the needed amounts of bandwidth,
- Have the proper type of security for the size and type of data,
- Have proper types of encryption,
- Have the ability to create “trusted” relationships with partners,
- Be able to follow Federal and state regulations regarding protection of their data

This workgroup will discuss the possibility of recommending a pilot project for the purpose of demonstrating the need for transferring large amounts of data in a secure environment. This project may be part of an existing program/project within the KEN partner realm.

How Are We Going to Get There:

As standards evolve the KEN partners should be included in any type of statewide standards workgroup or board. One of the recommendations this workgroup will make to the IT Applications sub committee will be that the KEN partners request they be included on and then assign people to represent KEN interests on any state level group data transfer standards group.

Impact on Teaching and Learning:

It is readily understood by all of the KEN partners that they will need to be able to move larger amounts of data to entities both internal to the KEN partnership and those outside of the partnership. This data will be of various types, sizes, and needing certain levels of encryption/protection.

This use of this various types of data will have a real-life impact on the ability of the KEN partners to interoperate, test and assess, create usable data warehousing, produce reporting mechanisms for internal and external clients, and be able to deliver the needed data resources for students, parents, educators, agencies, and other vested interests to determine future needs in the teaching and learning environment.