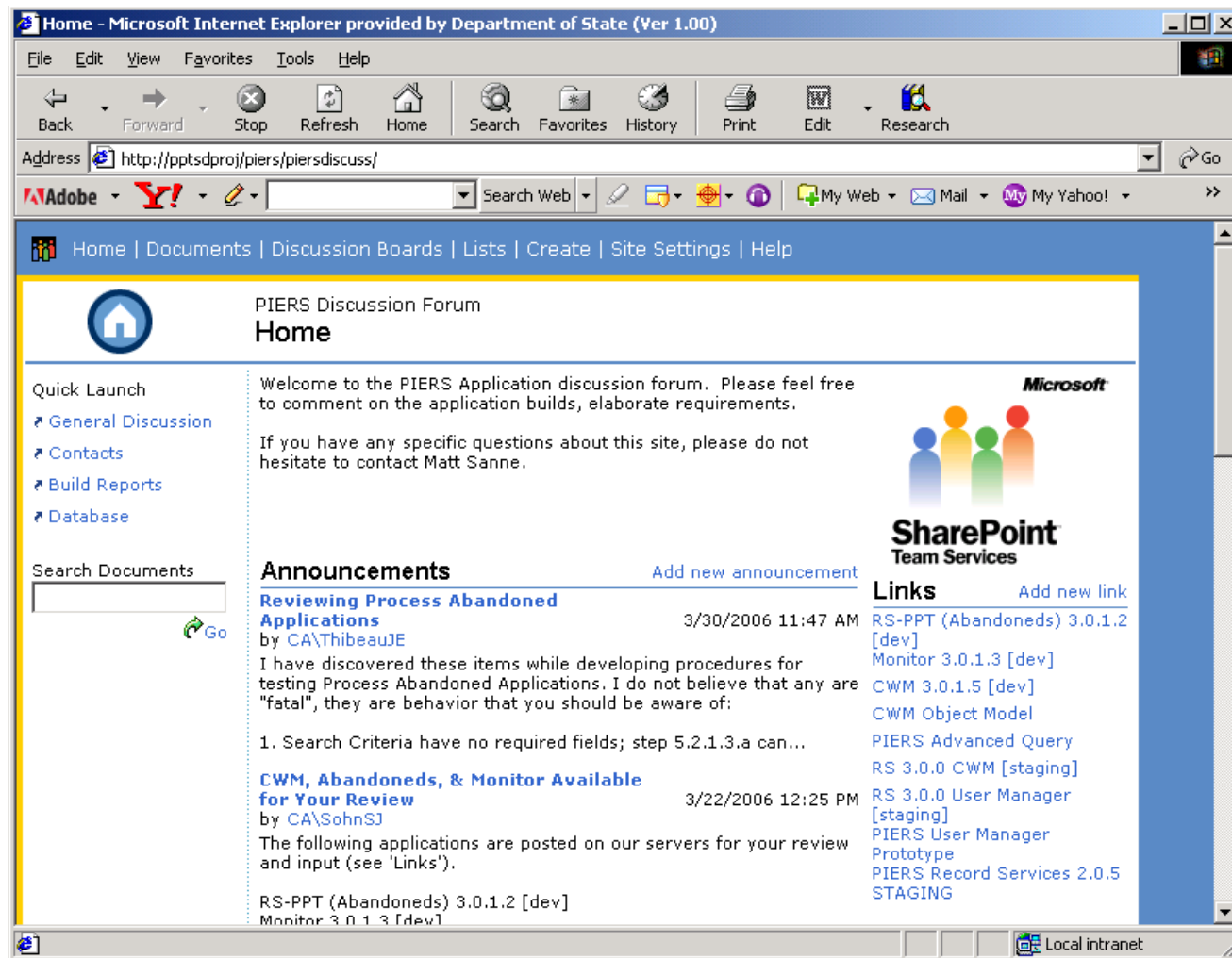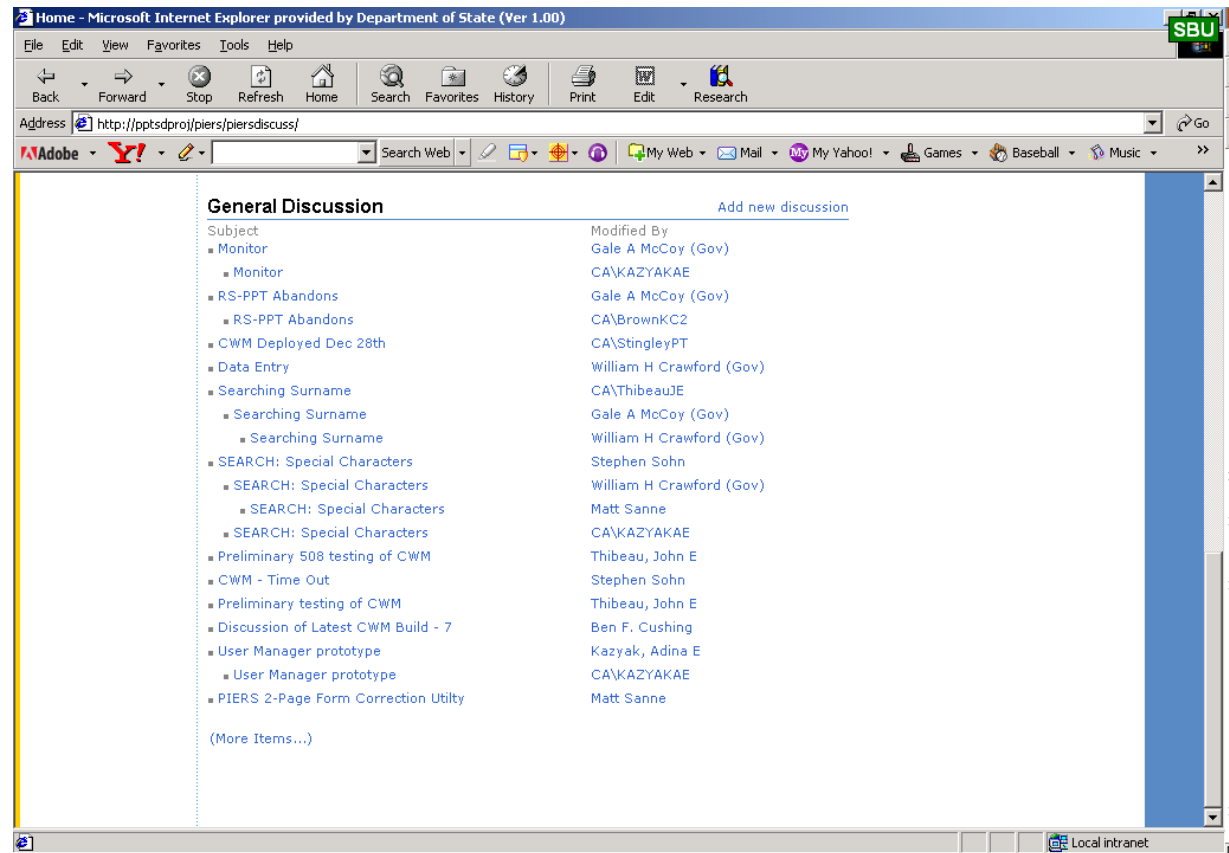# Agile Development

- Implemented SharePoint for all Projects
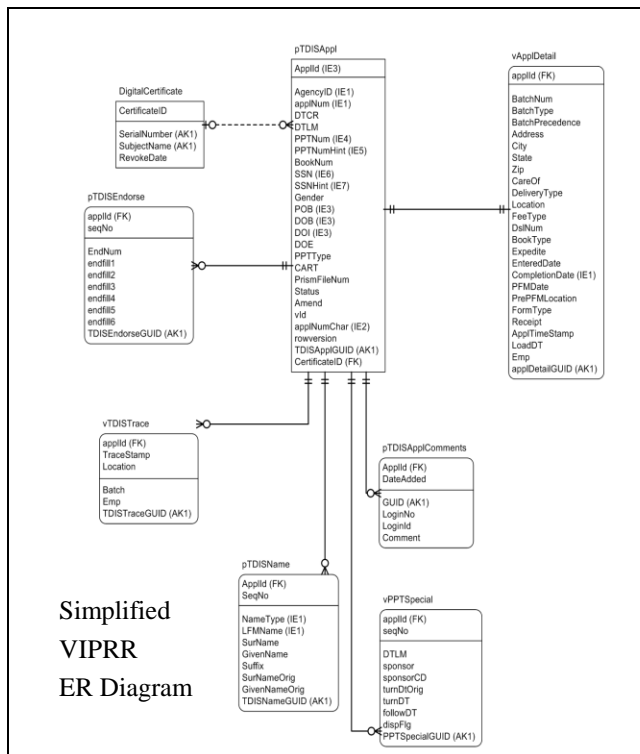
Frequent Build Methodology

- SharePoint discussion boards used to gather user feedback during development and after.

- Each bullet is a discussion item.

- Discussions with users start **during** development.

- Superior to e-mail because discussions can be captured as CM artifacts related to project.

Enterprise Application Development

- Used SharePoint with Visio to share database schema, E-R Diagrams and data dictionaries among development teams
  - Note 1: SharePoint includes search capability so developers can find all associated data elements.
  - Note2: Submitted .vsd documents for all databases to the DAWG two years ago per 5-FAM-633.


Simplified
VIPRR
ER Diagram

Workflow Based Architecture

The person configuring BizTalk uses this editor to connect the inputs and outputs and to create the internal flows within BizTalk.

In this flow

1. Go to PIERS & get MRZ data
2. Convert to FEP XML
3. Send request to FEP
4. Receive image back from FEP
5. Package all in DHS XML
6. Send to DHS

<u>No new application development</u> is required for new connections.
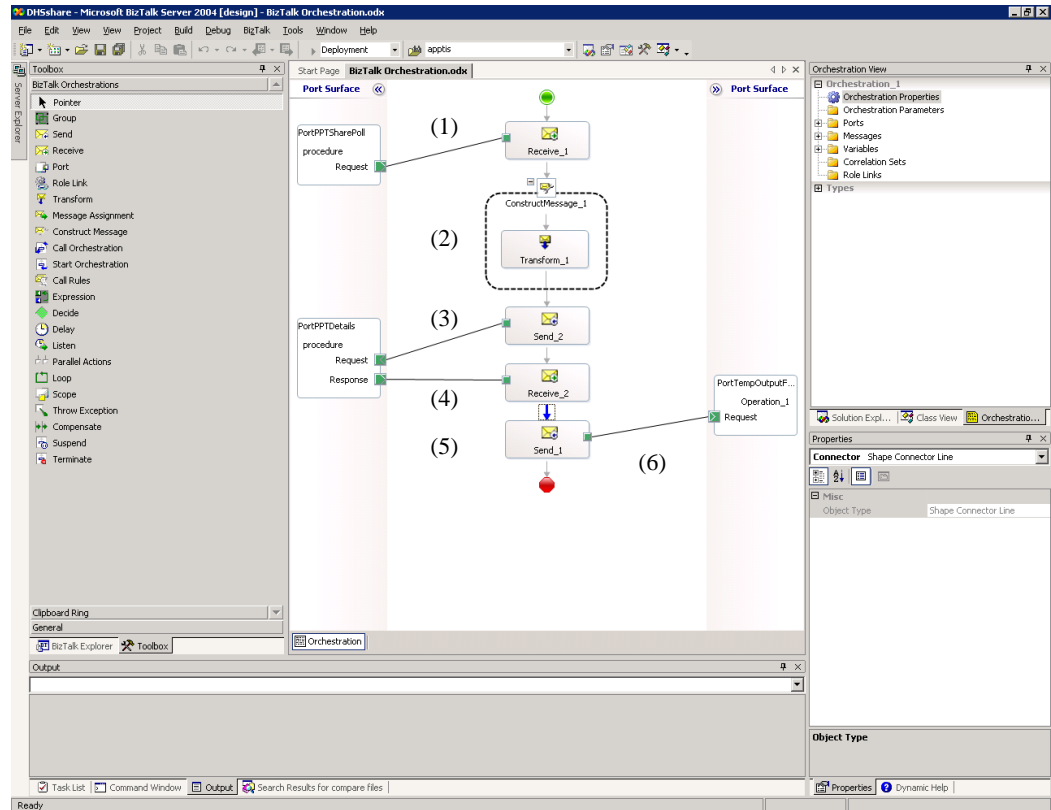
No new development, no new C&A!

Enterprise Application Programming

Visual Studio Team System – Enterprise toolset for .net development.

- Provides an enterprise wide collaborative environment for developing .net applications.
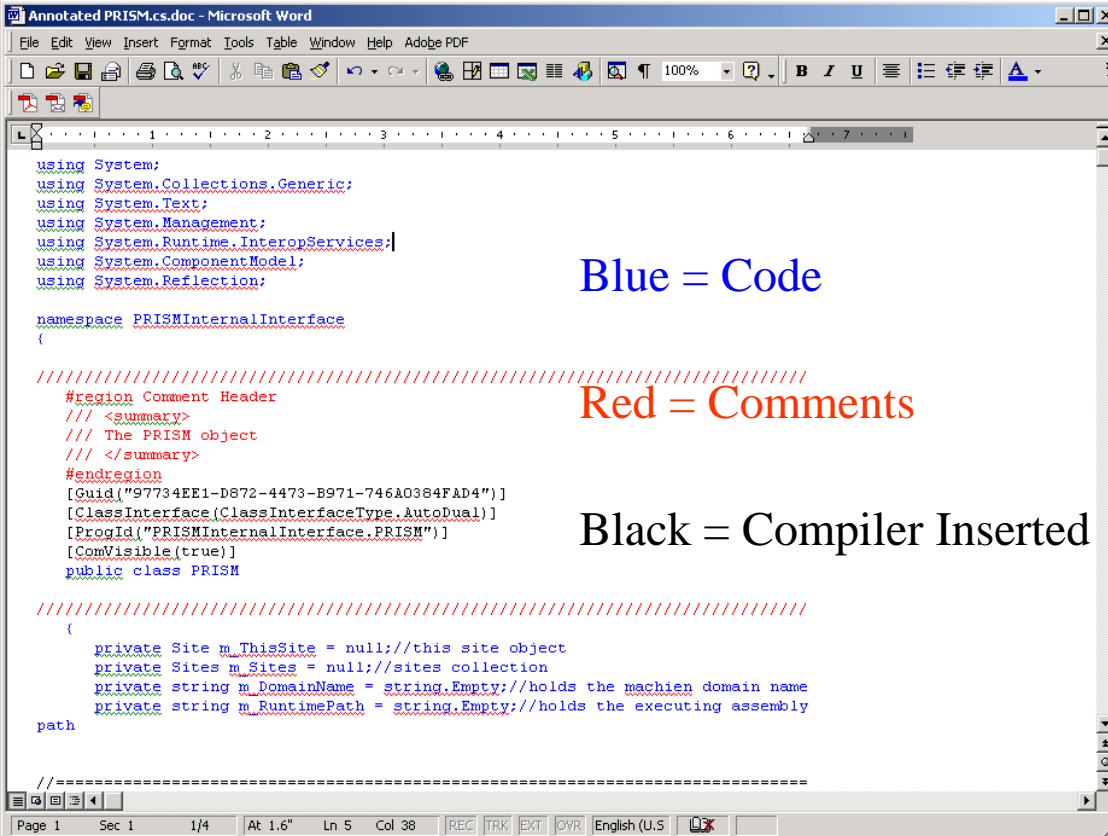
- Facilitates code re-use.

We have developed a set of coding standards that further facilitates collaboration and re-use in .net.

(Just this week we have begun retrofitting C++)

Enterprise Application Programming

Coding Standards

A few, well placed comments creates documentation that shares descriptions of the classes and methods for our code.

Enterprise Application Programming

This is the resulting code descriptions as shown in SharePoint.

SharePoint's search capability allows subsequent developers to find code objects.
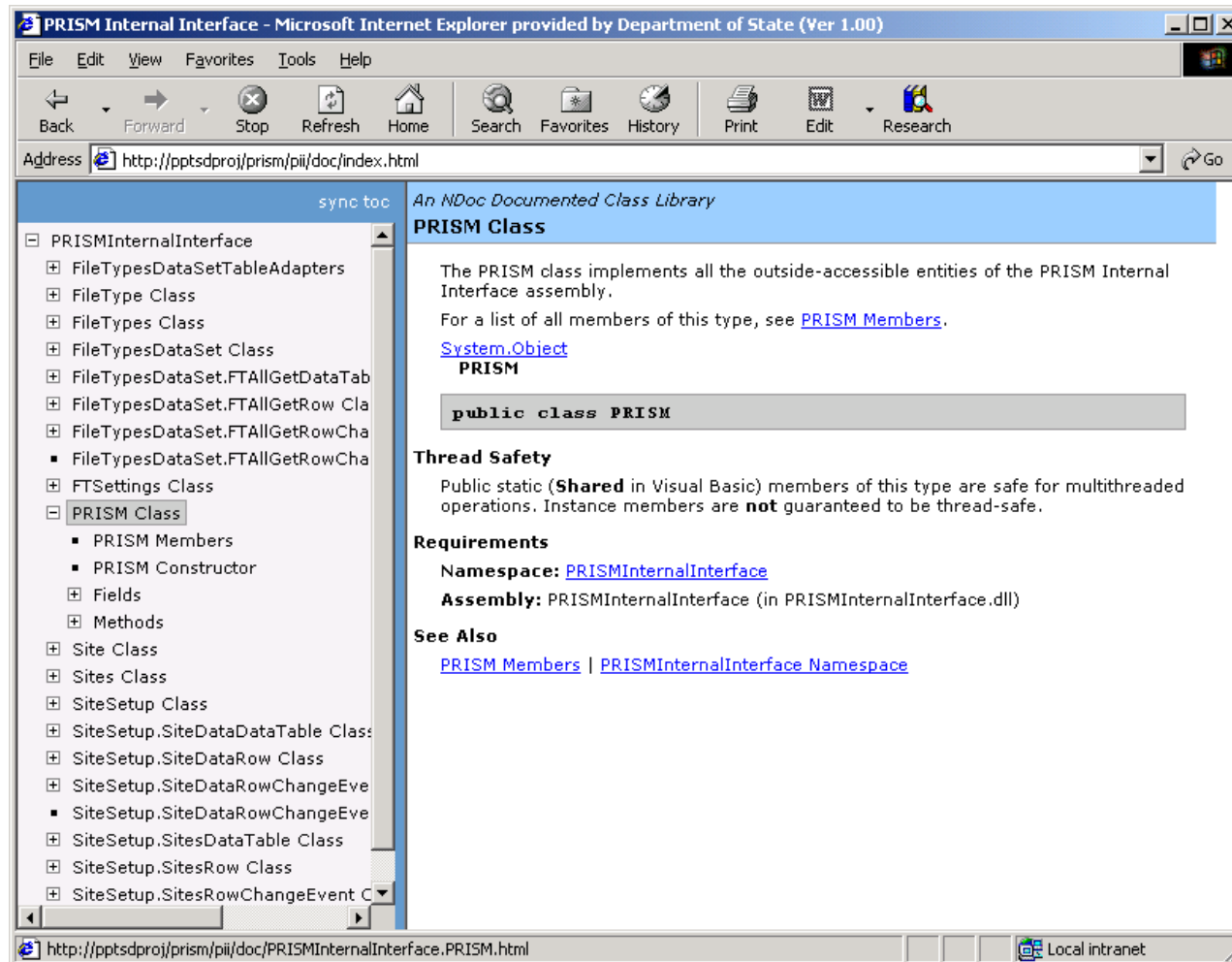
Note: Objects are closer than they appear - (This is a capture of a live environment, not a mock-up.)