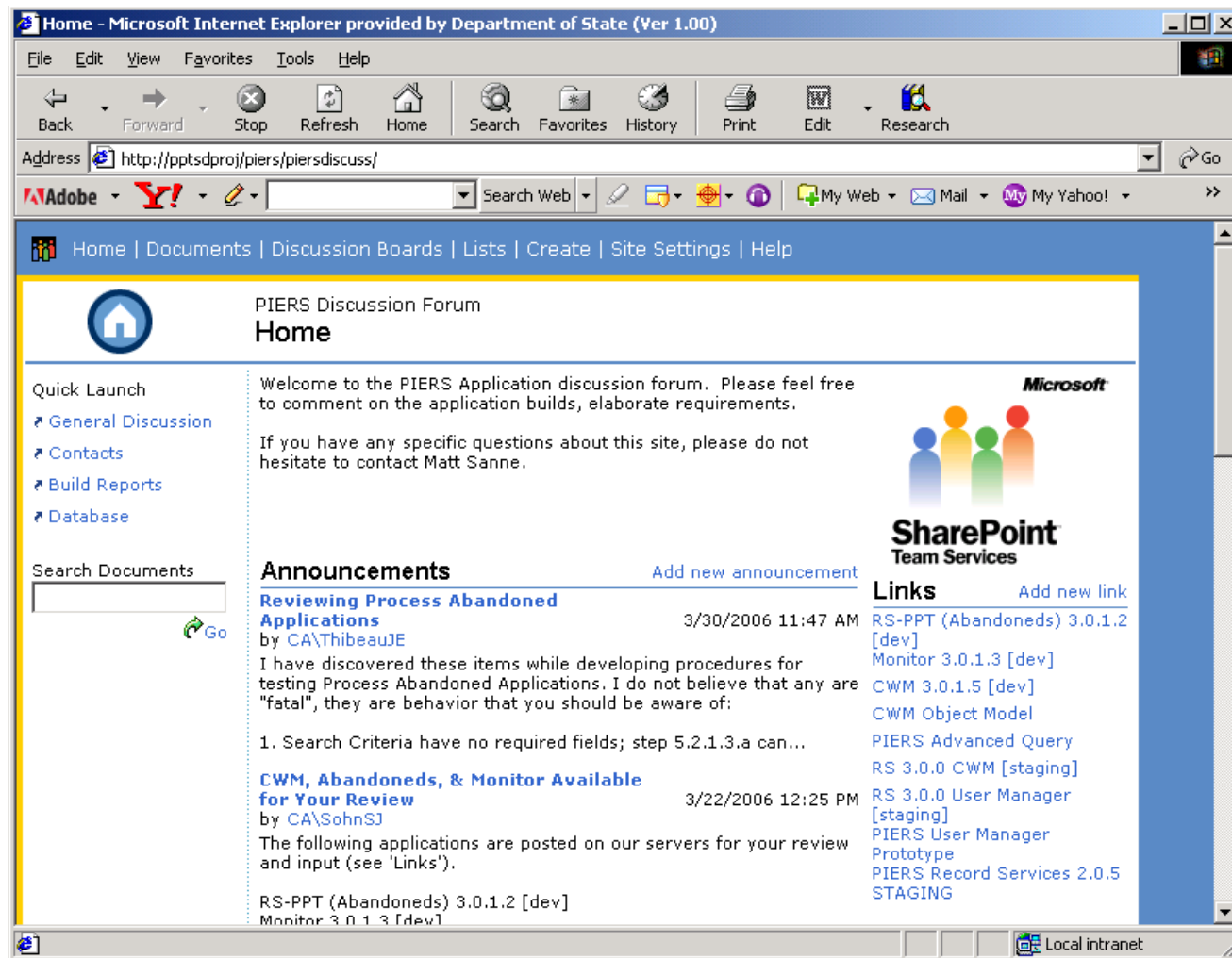


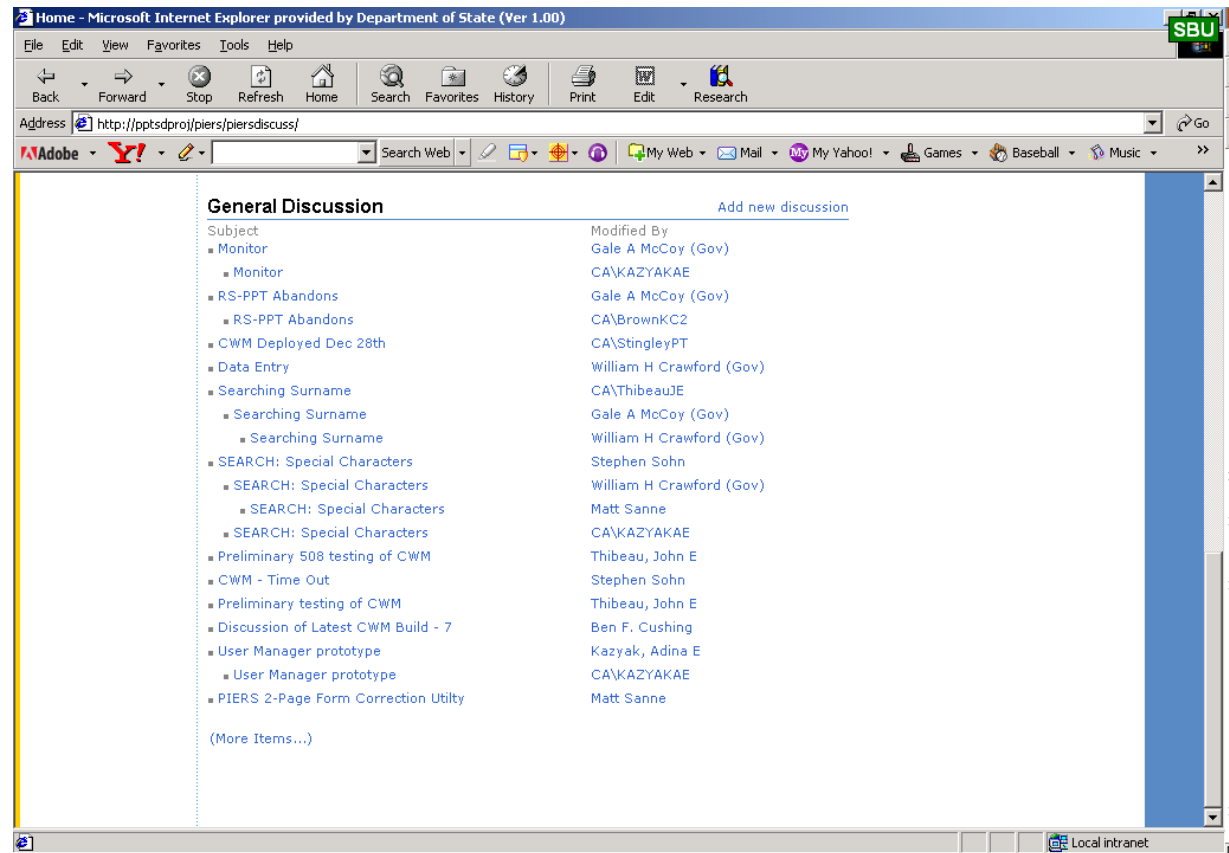
Agile Development

- Implemented SharePoint for all Projects



Frequent Build Methodology

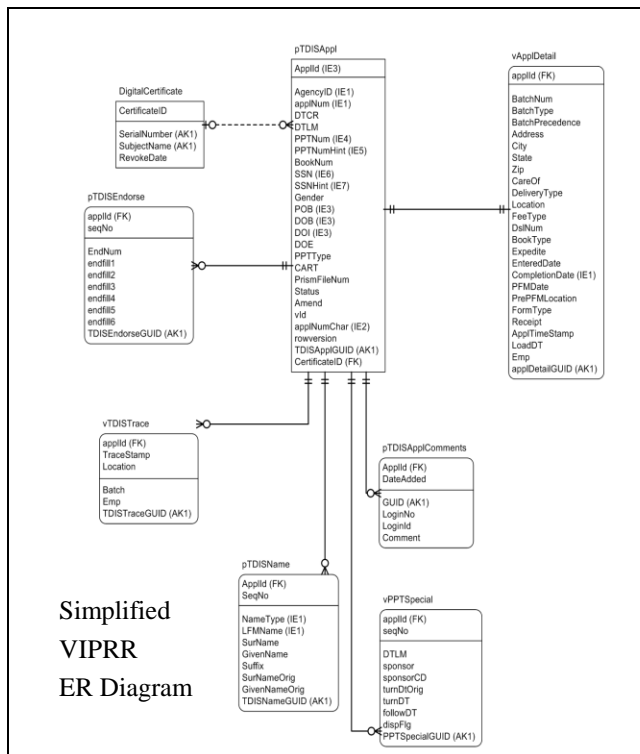
- SharePoint discussion boards used to gather user feedback during development and after.



- 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.



ViPrr Primary Tables Data Dict.rtf (Read-Only) - Microsoft Word

ViPrr Primary tables Data Dictionary

Database summary

Number of tables: 8
 Number of views: 0
 Number of columns: 96
 Number of indexes: 17
 Number of foreign keys: 7

Tables	Columns	Indexes	Foreign keys	Notes
vTDISTrace	6	1	1	List trace steps for locations that Application went to.
vPPTSpecial	10	1	1	Contains Special Passport request info added by SIA
vAppDetail	25	2	1	Application Details not contained in pTDISApp
pTDISName	10	2	1	Names associated with Applicant
pTDISEndorse	10	1	1	Contains one or more endorsement code for an Application
pTDISAppComments	6	1	1	Comments added by Records Services personnel
pTDISApp	25	8	1	Primary Application data
DigitalCertificate	4	1	0	PKI Digital Certificate info

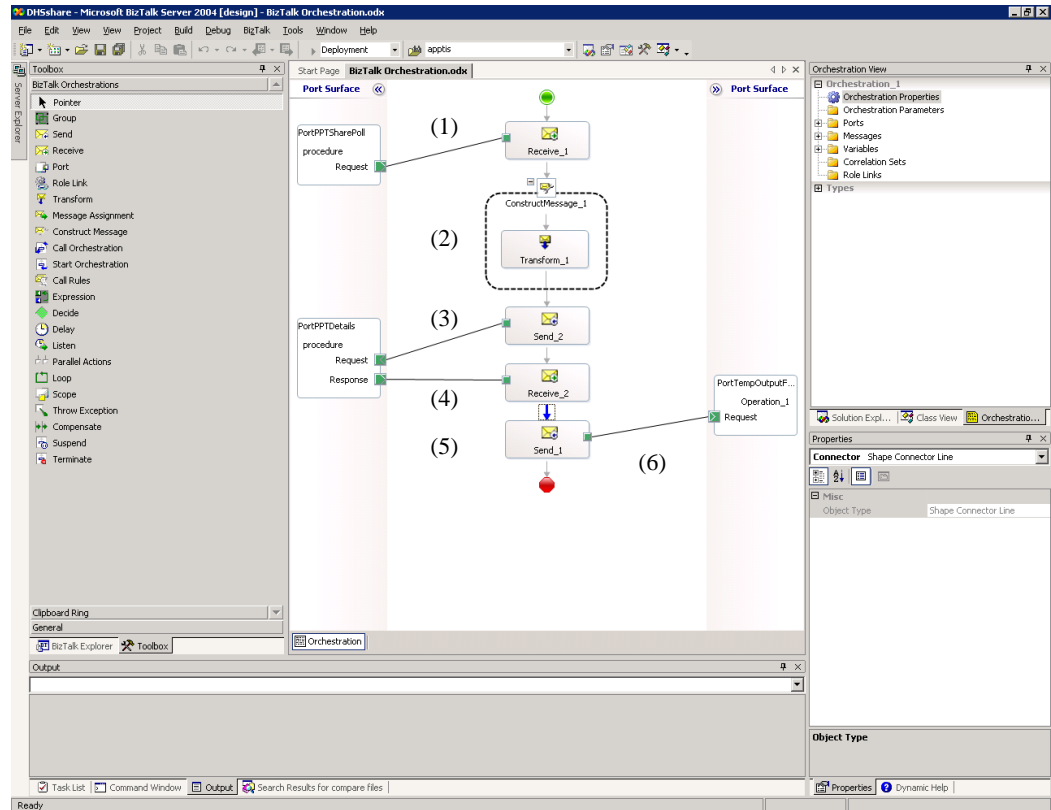
Workflow Based Architecture

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

No new application development 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.

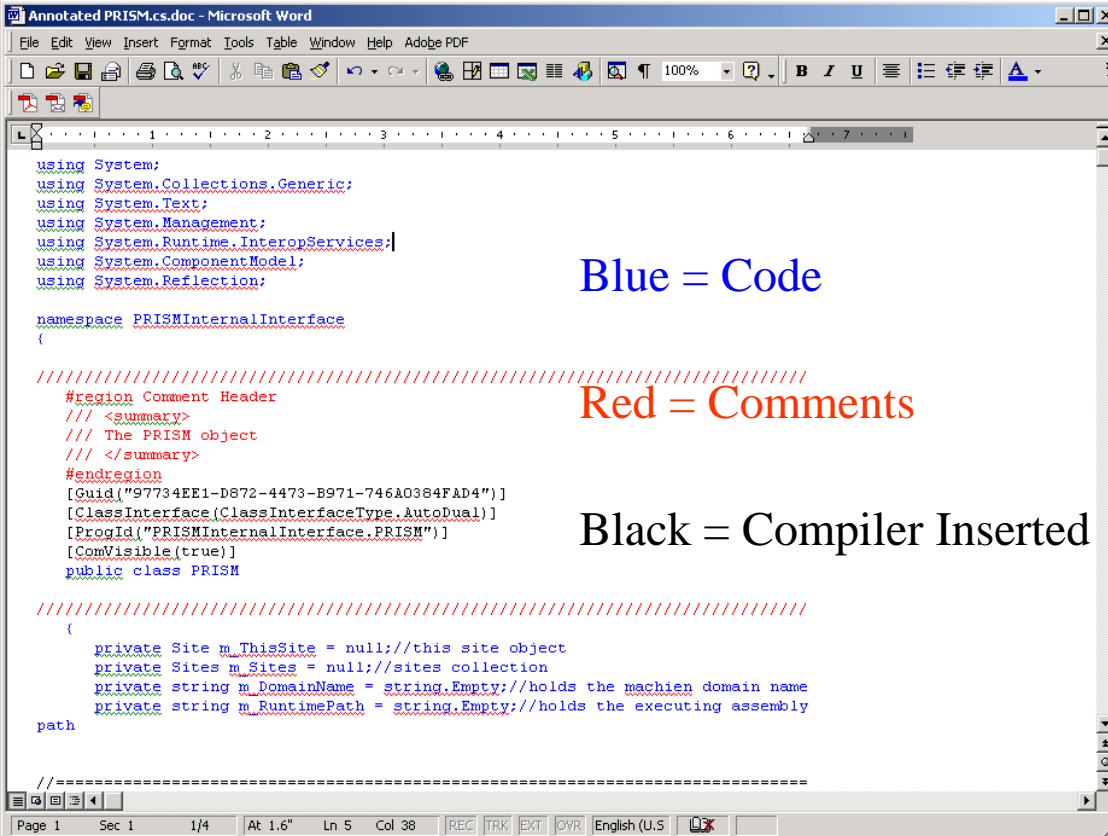
We have developed a set of coding standards that further facilitates collaboration and re-use in .net.

(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.



Blue = Code

Red = Comments

Black = Compiler Inserted

```
using System;
using System.Collections.Generic;
using System.Text;
using System.Management;
using System.Runtime.InteropServices;
using System.ComponentModel;
using System.Reflection;

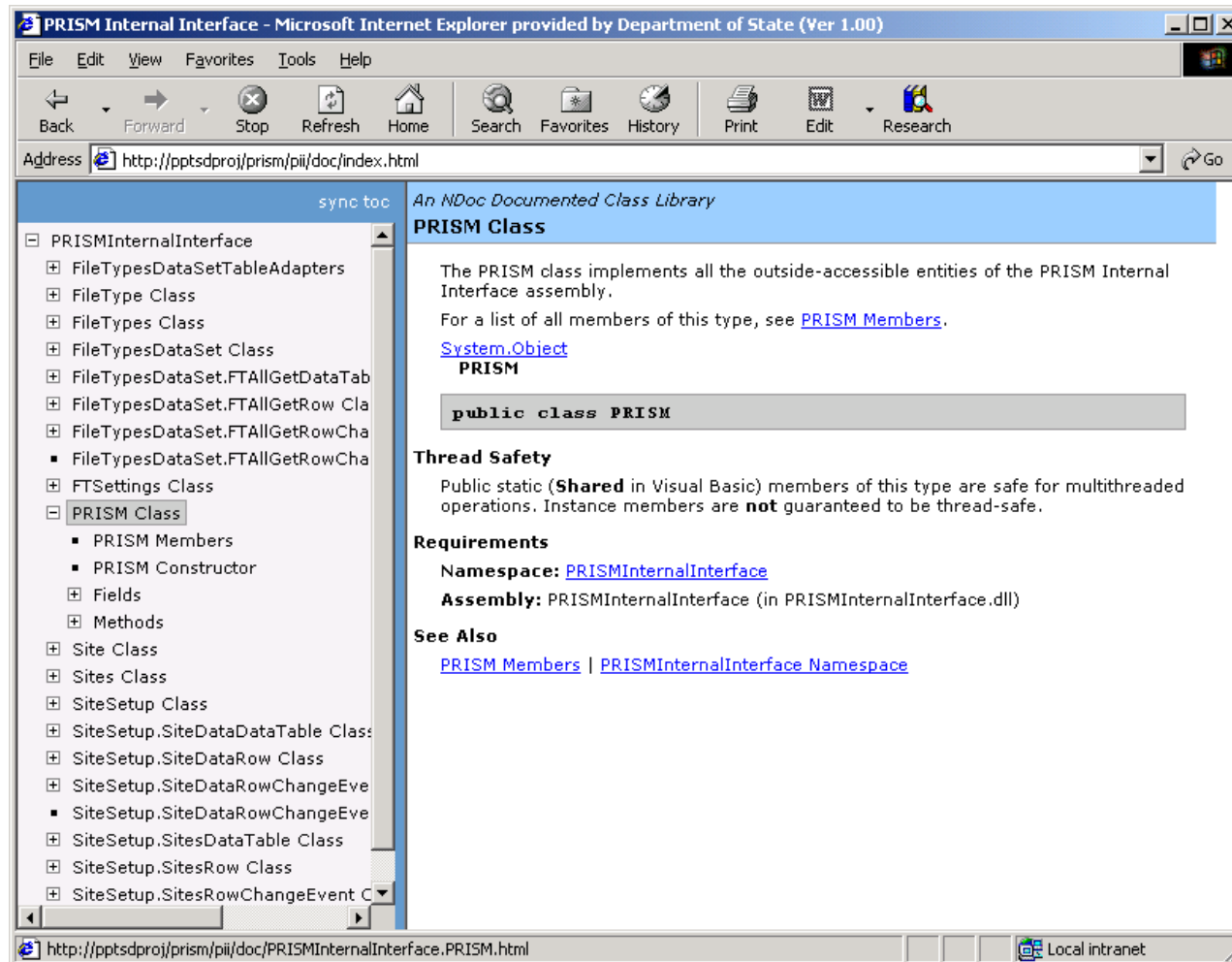
namespace PRISMInternalInterface
{
    //////////////////////////////////////
    #region Comment Header
    /// <summary>
    /// The PRISM object
    /// </summary>
    #endregion
    [Guid("97734EE1-D872-4473-B971-746A0384FAD4")]
    [ClassInterface(ClassInterfaceType.AutoDual)]
    [ProgId("PRISMInternalInterface.PRISM")]
    [ComVisible(true)]
    public class PRISM
    {
        //////////////////////////////////////
        private Site m_ThisSite = null; //this site object
        private Sites m_Sites = null; //sites collection
        private string m_DomainName = string.Empty; //holds the machien domain name
        private string m_RuntimePath = string.Empty; //holds the executing assembly
        path

        //=====
    }
}
```

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.)