

**Integrated Project Team (IPT) Status Report  
April 2003**

This report contains 1-page summaries on the following data flows using CDX:

Air Quality System (AQS)  
Beaches-STORET  
e-DMR (Discharge Monitoring Reports)  
e-DWR (Drinking Water Reports)  
Facility Registry System (FRS)  
Interim Data Exchange Format (State NPDES to PCS)  
National Emission Inventory (NEI)  
PCS/ICIS (OECA)  
Radionuclide NESHAPS  
RCRAInfo  
SDWARS/UCMR  
Safe Drinking Water Information System (SDWIS)  
Toxics Release Inventory (TRI)  
Toxic Substances Control Act Test Submissions (TSCATS)  
Toxic Substances Control Act Premanufacture Notices (TSCA-PMNs)

## Integrated Project Team (IPT) Status

Data Flow: Air Quality System (AQS)

Description: AQS is a national database that contains ambient air quality monitoring data collected by State and local governments

Representatives

Recommended Lead: Ed Lillis

Program: Mike Letke, Jake Summers, David Updike

CDX: Charles Freeman, Greg Mitchell

Region: Not directly involved in collection process

State: Program office solicited requests for participation with State partners at National Conference in April 2003

Challenge Grant: See above

Contractors: CSC, Dyncorp, Oracle, OAO

File Format:

Flat File: April 2003

Schema: Summer/Fall 2003

TRG approved: To be submitted

Approval level: N/A

Includes entire National System? Yes

Expected Date for Deployment: Flat file April 2003  
XML Fall 2003 (estimated)

Node exchange: Winter 2003/2004 (estimated)

Number of submissions received:

This month: N/A

Year to Date: N/A

Registrations: None yet on CDX, Approximately 600 State and local governments that submit data and/or retrieve reports

Current Snapshot: Completing Beta testing flat file upload process. Schema development in process. Will rollout flat file transfer process in April and May 2003. Will complete and test XML node exchanges.

## Integrated Project Team (IPT) Status

Data Flow: Beaches-STORET

Description: The Beaches-STORET System will allow States subject to reporting requirements (35 States) promulgated under the Beach Environmental Assessment and Coastal Health (BEACH) Act to submit their annual beach notification/closure information to PRAWN (program tracking database) and beach monitoring information to STORET.

Representatives

Recommended Lead: Andy Battin

Program: Charles Kovatch, Lee Manning, Bob King, Cary McElhinney, Kevin Christian, Michael Plastino, Leo Gueriguian, Andy Battin, Tim Richards (OTOP), David Updike (OTOP)

CDX: Mike Hart

Region: Bob Simpson, Region 2

State: New Jersey: Irene Kropp, Mike Matsko, Virginia Loftin  
Also: Shannon Briggs (MI), Kendall Dunham (NY), Marshall Brooks (VA), Dennis Murphy (DE)

Challenge Grant States: GA, NC, CA, DE, NJ (lead)

Contractors: CSC, SAIC, AMS, TRI, Gold Systems, DynCorp

File Format:

Flat File: Beach Monitoring Data

Schema: XML Schema near final for Beach Monitoring Data, Beach Notification Data; accessible via <http://www.exchangenetwork.net>

TRG approved: Submitted for approval Spring 2003

Approval level: N/A

Includes entire National System? No. Initially, a minimum requirements systems will be supported that will allow users to interface with WebRIT (georeferencing) and STORET Web Registration (metadata).

Expected Date for Deployment: Beaches-STORET is scheduled for a Memorial Day (May 2003) launch.

Node exchange: A prototype for Beach Notification is currently under development.

Number of submissions received:

This month: N/A

Year to Date: N/A

Registrations: 8-10 Beaches States anticipated initially. Thereafter, 100 (2-3 from each of the Beaches States, Territories, Tribes, Regions).

Current Snapshot: Alpha testing for the initial implementation of the Beaches-STORET system will be completed by May 2003. Will implement XML schema through CDX. Will perform requirements for backend connectivity to STORET and PRAWN by Summer 2003.

## Integrated Project Team (IPT) Status

Data Flow: e-DMR (Discharge Monitoring Reports) Challenge Grant

Description: e-DMR is a schema on data contained in discharge monitoring reports (DMRs) under the EPA NPDES Program. The e-DMR contains exchange format modules for facility information, contact information, submission information and wastewater characterization information

### Representatives

Recommended Lead: Michael Beaulac  
Program: Michael Beaulac, MI State lead  
CDX: John Coates, Pat Garvey, Connie Dwyer, Steve Vineski  
Region: Steve Goranson, Noel Kohl (Region 5), Joe Kerry (Region 3)  
State: Michael Beaulac, and Bill Geake (MI, lead), Joe Doker, John Coates, Barbara Kennedy and Terri Rein (FL), Charles Dunn and Gayla Mullin (IN), James Fansler, Leslie Goldsmith and Edward Meyer (MN), Mark Hyland and Marilyn Phillips (NY), Anna Rump (RI), Bob Jacoby (TX), Gail Mills (WI), Joseph Bennett, William Ewer, Gail Jackson, Matthew Nielsen, and Matthew Stahl (PA)

Contractors: Enfotech

### File Format:

Schema: XML Schema developed in 2002 and uses modules and XML Tags from the Facility ID Schema  
Web Interface: Completed in 2002  
TRG approved: In Process  
Approval level: Candidate recommendation

Includes entire National System? Facility to State data requirements only, Project is attempting to support State-to-CDX data flow as well.

Expected Date for Deployment: May 1, 2003 (Michigan) other States to Follow

Node exchange: Summer-Fall 2003 (estimated) with CDX and Other States

### Number of submissions received:

This month: N/A  
Year to Date: N/A

Registrations: None on CDX. Michigan facilities will begin enrolling for participation Spring 2003

Current Snapshot: Data flow from Facility to State has been developed and tested and will be implemented May 1, 2003 in Michigan. Data flow from State to CDX has not been completed but is planned for late Summer 2003. Held States Meeting in early February 2003.

## Integrated Project Team (IPT) Status

Data Flow: e-DWR (Drinking Water Reports)

Description: e-DWR pertains to the schema developed for drinking water reporting. The e-DWR system contains modules for monthly operating reports and lab reporting information. It has been harmonized to the Facility and e-DMR schemas.

### Representatives

Recommended Lead: Michael Beaulac  
Program: Michael Beaulac, MI State lead  
CDX: John Coates, Pat Garvey, Connie Dwyer  
Region: Steve Goranson, Noel Kohl (Region 5)  
State: Michael Beaulac and Mike Breithart (MI, lead), Joe Doker, John Coates and Kenna Study (FL), and representatives from IA, MT, WI, PA

### File Format:

Schema: e-DWR XML Schema has been approved  
Web Interface: Completed in 2002  
TRG approved: Submitted for review  
Approval level: Working Draft

Includes entire National System? Facility to State data flow only

Expected Date for Deployment: Testing has occurred in winter 2003 (Nebraska)

Node exchange: Undetermined

Number of submissions received:

This month: 2-3 successful test submissions (February 2003)

Year to Date: N/A

Registrations: None on CDX. Michigan facilities will consider implementation from facility to state, and possibly state to SDWIS(?) by calendar 2005, funding permitting.

Current Snapshot:

Data flow from Facility to State has been developed. A pilot test demonstrated the e-DWR schema can be used for DWR submission to SDWIS-State for Laboratory-to-State data flow. Further testing might be useful for other reporting forms. Translation from XML file format to EDI file format could be achieved using XSLT. This translation could be very useful to serve as an interim solution during the EDI to XML transition period for all SDWIS-State states.

## Integrated Project Team (IPT) Status

Data Flow:	Facility Registry System (FRS)
Description:	FRS is a national database that contains the facility identification data which is collected from national systems, States and web resources.
Representatives	
Recommended Lead:	Pat Garvey
Program:	Pat Garvey
CDX:	Chris Clark
Region:	All Regional Data Stewards, Ken Blumbey, lead
State:	NE, MN, DE, PA, SC, UT, MS, OR, CA, MD, NJ, GA, TN, NC, NY, HI, SD
Contractors:	CSC, SAIC
File Format:	
Flat File:	Yes, completed
Schema:	Yes, completed
TRG approved:	Submitted in October 2002
Approval level:	Candidate recommendation
Includes entire National System?	Yes both in Flat & XML Schema
Expected Date for Deployment:	Flat file - February 2000 XML - Spring 2002
Node Exchange:	April 2003
Number of submissions received from CDX:	
This month:	N/A
Year to Date:	N/A
Registrations:	None yet on CDX, Approximately 45 States expected
Current Snapshot:	Presently testing retrieval and upload processing through CDX Node. Production to and from States in April 2003 through CDX. Schema is awaiting the TRG Approvals.

## Integrated Project Team (IPT) Status

Data Flow:	Interim Data Exchange Format (State NPDES to PCS)
Description:	IDEF is an XML format for delegated States to submit National Pollution Discharge Elimination System (NPDES) data to EPA's Permit Compliance System (PCS). EPA's Permit Compliance System requires certain key data elements to locate records. States that can provide all of these key data elements are considered "pass-through" states, since the State can provide all the requisite data available to update PCS records. Some States do not have these requisite key data available, so IDEF is developing middleware to generate these keys on behalf of the States and add it to their data submissions.
Representatives	
Recommended Lead:	John Hovell
Program:	Glendora Spinelli, Steven Rubin, Jefferey Clark
CDX:	Steve Vineski
Region:	Region 2: Dit Cheung, George Nossa Region 6: Becky Himes
State:	Pilot States: VA and NJ (NJ is pilot State for Middleware) Melanie Morris (MS) co-chairs IDEF IPT with Mark Luttner and Mike Stahl; Also working with Charles Furrey (IA), Warren Opfer (WA)
Contractors:	CSC, LMI
File Format:	
Flat File:	No
Schema/DTD:	DTD
TRG approved:	No
Approval level:	N/A
Includes entire National System?	Yes
Expected Date for Deployment:	Pass-through: In production April 2002 for States (VA) that can provide all PCS key fields. Middleware: May 2003 for States that cannot provide key data (estimate 12 States).
Node exchange:	Modernized PCS (ICIS) is scheduled for deployment in 2005. IDEF DTDs will be incorporated into a new ICIS XML schema with plans for Node, HTTPS, on-line, and flat-file submissions. NJ and MS have expressed interest in using Node exchanges with the current XML DTDs. OIC is considering supporting that option once Middleware is completed.
Number of submissions received:	
This month:	N/A
Year to Date:	N/A
Registrations:	5 Total. VA in production, NJ (not in production) and IA(in test)
Current Snapshot:	For States without the required key data elements, Middleware has been developed and tested in the test environment. IA has successfully tested all submission types with the exception of measurement violation. Testing will begin with Washington state April 14 and will be completed by June 30.

## Integrated Project Team (IPT) Status

Data Flow:	National Emission Inventory (NEI)
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Description: NEI is a database containing data to help characterize emissions of criteria and hazardous air pollutants. Data are submitted by State and local governments tri-annually. The collection process also includes annual resubmissions and periodic corrections to the data.

Representatives

Recommended Lead:	Phil Lorang
Program:	Lee Tooly, Sally Dombrowski
CDX:	Chuck Freeman
Region:	Not involved in collection process
State:	Dennis Burling, NB and Buzz Asselmeier, IL
Challenge Grant:	Renee Martinez (NM), State Challenge grant lead
Contractors:	CSC, LMI

File Format:

Flat File:	Yes, Completed
Schema:	Yes, Completed
TRG approved:	Requested, in process
Approval level:	N/A

Includes entire National System? Yes

Expected Date for Deployment: Flat File through CDX, May 2001 - June 2004 and beyond  
XML test transmissions through CDX, Summer 2002 & 2003, Production June 2004

Node exchange: To be pilot tested Summer/Fall 2003

Number of submissions received:

This month:	16
Year to Date:	32 (237 for 2002)

Registrations: 119 Total, including 34 States, 5 local governments, 5 Tribes

Current Snapshot: Preparing for roll out for NEI Input Format (NIF) and XML formats in June 2003. Will update schema and translator to incorporate EPA data standards and NIF 3.0 format by Fall 2003.



### Integrated Project Team (IPT) Status

Data Flow:	PCS/ICIS (OECA)
Description:	ICIS is a modernized version of PCS built on a relational database platform, removing many of the requisite key data requirements, and providing additional user features. ICIS will also expand the data set to include other sources, such as Concentrated Animal Feeding Operations (CAFOs) and non-point sources.
Representatives	
Recommended Lead:	John Hovell
Program:	Glendora Spinelli
CDX:	Steve Vineski, Charles Freeman
Region:	Becky Himes, Region 6 (data flow design team)
State:	Charles Furrey (IA), Terry Behm (NJ), MS, CA, OH, NC
Contractors:	CSC, Booz Allen Hamilton
File Format:	
Flat File:	Yes
Schema:	Yes
TRG approved:	Not submitted yet
Approval level:	N/A
Includes entire National System?	Yes
Expected Date for Deployment:	2005
Node exchange:	2005
Number of submissions received:	
This month:	None
Year to Date:	None
Registrations:	None
Current Snapshot:	Developing design for the system. A draft design is expected in May, and then undergo a 3-4 month review process.
	OECA is also revising its ICIS schedule to address recent SMF decisions.

### Integrated Project Team (IPT) Status

Data Flow:	Radionuclide NESHAPS
Description:	NESHAPS requires regulated facilities to report data related to the emission of radionuclides into the atmosphere.

Representatives	
Recommended Lead:	Frank Marcinowski
Program:	Khesha Jennings (OAR-ORIA), Sanjib Chaki
CDX:	Charles Freeman
Region:	Jeanette Eng (Region 2), Lloyd Generette (Region 4), Michael Murphy (Region 5), George Brozowski (Region 6)
State:	Dick Sharpe and Susan Jenkins (SC), Al Conklin (WA)
Contractors:	LMI
File Format:	
Flat File:	Deployment Spring 2003 for Subpart H facilities
Schema:	Not applicable at this time
Web Form:	Used in combination with flat file (see above)
TRG approved:	Not applicable at this time
Approval level:	Not applicable at this time
Includes entire National System?	No National System in existence for Radionuclides or NESHAPS submissions
Expected Date for Deployment:	Spring 2003 for Subpart H facilities
Node exchange:	Not applicable at this time
Number of submissions received:	
This month:	Not applicable at this time
Year to Date:	Not applicable at this time
Registrations:	Not applicable at this time. Approximately 40 federal and commercial facilities required to report annually.
Current Snapshot:	Testing front and back-end application with Regions and States from December 2002-April 2003. Working with Ohio and Tennessee to get feedback on the back-end application. Scheduling demonstration on the submission process with select facilities in late April 2003.

## Integrated Project Team (IPT) Status

Data Flow:	RCRAInfo
Description:	RCRAInfo is the national database containing data collected from delegated States and Regions on hazardous waste. RCRAInfo primarily consists of 5 modules: Permitting, Corrective Action, Handler, Compliance Monitoring Enforcement, Waste Activity Report
Representatives	
Recommended Lead:	Lionel Brown
Program:	Eric Schwarz, Michael Hillard
CDX:	Charles Freeman
Region:	Mike Lee, Region 3
State:	Meeting scheduled in March 2003 with Region 5, Michigan, and Mario Baroni (MS) to solicit participation. Program Office is currently considering other participants.
Challenge Grant:	Melanie Morris, Mississippi lead for Challenge grant
Contractors:	CSC, Booz Allen Hamilton
File Format:	
Flat File:	All 5 RCRAInfo modules
Schema:	Draft schema for three of five modules (Permitting, Corrective Action, Handler)
Web Form:	SiteID Form (Part A Notification of Waste Activity)
TRG approved:	Submitted for approval
Approval level:	N/A
Includes entire National System?	Yes, for flat file Schema includes 3 of 5 modules (see above)
Expected Date for Deployment:	Flat file May 2003 XML Winter 2003 (estimated)
Node exchange:	Summer 2004 (estimated)
Number of submissions received:	
This month:	N/A
Year to Date:	N/A
Registrations:	None on CDX, approximately 35 State and Regional Entities. Total universe of SiteID forms is 70,000 and CDX expects to support 3,000 of these forms in 2003.
Current Snapshot:	Currently testing flat file upload. Deployment planned for May 2003. Completed draft schema for three of five State modules (Handler, Corrective Action, Permitting). Schema revisions planned for Summer 2003.

## Integrated Project Team (IPT) Status

Data Flow:	SDWARS/UCMR
Description:	The Safe Drinking Water Access and Review System supports reporting requirements promulgated under the Unregulated Contaminant Monitoring Regulation. Labs submit their inventory for Public Water Supply (PWS) approval and, upon approval, that inventory can be viewed by the States and EPA.
Representatives	
Recommended Lead:	Jeff Bryan
Program:	Jeff Bryan, Roger Howard, Dan Hautman, Chris Frebis, Mike Cummins, Michella Karapondo
CDX:	Mike Hart
Region:	Robert Burns (Region 4), Jack Rychecky (Region 8), Andy Waite (Region 6), Rita Bair (Region 5)
State:	Program Office's Data Sharing Committee has engaged Damon Guterman (MA), Doug Mandy (MN), Brad Addison (GA), Cliff Bowen (CA), Mary Alvey (OR)
Contractors:	CSC
File Format:	
Flat File:	Yes
Schema:	Yes
TRG approved:	DTD submitted for approval (this project was developed before the decision to use XML Schema)
Approval level:	Pending
Includes entire National System?	Yes
Expected Date for Deployment:	In production as of October 2001
Node exchange:	No
Number of submissions received:	
This month:	487 (454 flat files and 33 XML)
Year to Date:	1376 (Approximately 5700 for 2002)
Registrations:	4984 active (485 Labs, 4432 PWS, 45 States)
Current Snapshot:	In production.

## Integrated Project Team (IPT) Status

Data Flow:	Safe Drinking Water Information System (SDWIS)
Description:	SDWIS supports the quarterly reporting requirements promulgated under the Safe Drinking Water Act.
Representatives	
Recommended Lead:	Jeff Bryan
Program:	Chuck Job, Jeff Bryan, Abe Siegel, Ed Cottrill, L.A. Darnell, Lee Kyle, Leo Gueriguan, Andy Battin
CDX:	Mike Hart
Region:	Robert Burns (Region 4), Jack Rychecky (Region 8), Andy Waite (Region 6), Rita Bair (Region 5)
State:	Program Office's Data Sharing Committee has engaged Damon Guterman (MA), Doug Mandy (MN), Brad Addison (GA), Cliff Bowen (CA), Mary Alvey (OR). E-DWR has 9 States in project, lead is Mike Beaulac, MI
Challenge Grant States:	NJ has Challenge grant, NH is lead
Contractors:	CSC, SAIC
File Format:	
Flat File:	To be developed
Schema:	Completed
TRG approved:	Submitted for review in March 2003
Approval level:	N/A
Includes entire National System?	Yes
Expected Date for Deployment:	December 2003
Node exchange:	Winter 2003/2004
Number of submissions received:	
This month:	N/A
Year to Date:	N/A
Registrations:	25-30 States anticipated initially; all remaining States, and Territories, Tribes and Regions thereafter
Current Snapshot:	Completed high-level requirements gathering for this State-to-EPA flow. Development effort to begin, pending adequate funding.

## Integrated Project Team (IPT) Status

Data Flow:	Toxics Release Inventory (TRI)
Description:	TRI is an EPA database that contains information on toxic chemical releases and other waste management activities reported annually by certain covered industry groups as well as federal facilities.
Representatives	
Recommended Lead:	John Dombrowski
Program:	Josh Woodyard, Annette Marion, Larry Reisman, Michelle Price, Wendy Timm, Dipti Singh
CDX:	Kim Orr
Region:	Industry-to-EPA flow, Not yet involved in collection process
State:	Industry-to-EPA flow, Not yet involved in collection process
Contractors:	CSC, SAIC
File Format:	
Flat File:	For electronic submissions, we encourage the use of the Toxics Release Inventory-Made Easy Software ( <i>TRI-ME</i> ). In order for data to be properly loaded in the TRIS database, the TRI Program does make available via the TRI web site the magnetic media file structure. The file formats must meet the specifications in the document or the TRIS database will not be able to load these submissions.
Schema:	N/A
TRG approved:	N/A
Approval level:	N/A
Includes entire National System?	Yes
Expected Date for Deployment:	The <i>TRI-ME</i> reporting software for reporting year 2002 will be available to the public in the Spring of 2003, via the TRI web site and provided to all facilities via CD-ROM with the annual mailing of the reporting package.
Node exchange:	N/A
Number of CDX submissions received: Year to Date:	For FY 2001, 7,845 TRI chemical submissions were received via CDX and transmitted to the TRIS database. No submissions have been recorded for RY2002 as the deadline for reporting is July 1, 2003.
Registrations:	N/A. For TRI-ME, there are 2217 active registrants and 2627 submissions were received for RY2001.
Current Snapshot:	TRI-ME software with electronic signature feature is now available for RY2002.

## Integrated Project Team (IPT) Status

Data Flow:	Toxic Substances Control Act Test Submissions (TSCATS)
Description:	Office of Pollution Prevention and Toxics developed the TSCATS database to track health and safety data submissions from industry, required under sections 4, 8(d), and 8(e) of the TSCA, and voluntary non-confidential For Your Information (FYI) health and safety data submissions to EPA and the TSCA Interagency Testing Committee (ITC).
Representatives	
Recommended Lead:	Vicki Anderson
Program:	John Leitzke, John Beier
CDX:	Chuck Freeman
Region:	Industry-to-EPA flow, Not involved in collection process
State:	Industry-to-EPA flow, Not involved in collection process
Contractors:	CSC, LMI, SRC
File Format:	
Flat File:	No
Schema:	No
TRG approved:	N/A
Approval level:	N/A
Includes entire National System?	Yes
Expected Date for Deployment:	Web forms launched into production August 2002
Node exchange:	N/A
Number of submissions received:	
This month:	None
Year to Date:	None (48 submissions in 2002)
Registrations:	23 Companies
Current Snapshot:	OPPT Federal Register Notice scheduled for release in Spring 2003 may generate more interest on the part of facilities.

## Integrated Project Team (IPT) Status

Data Flow: Toxic Substances Control Act Premanufacture Notices (TSCA-PMNs)

Description: Industry submitters must submit a premanufacture notice (PMN) if they intend to manufacture (import is considered manufacture) any new chemical substance which is not on the TSCA Inventory or otherwise excluded from notification, as discussed below.

### Representatives

Recommended Lead: Linda Gerber  
Program: Anna Coutlakis, Dave Schutz  
CDX: Chuck Freeman  
Region: Industry-to-EPA flow, Not involved in collection process  
State: Industry-to-EPA flow, Not involved in collection process  
Contractors: CSC

### File Format:

Flat File: No  
Schema: No  
TRG approved: N/A  
Approval level: N/A

Includes entire National System? Yes

Expected Date for Deployment: Launched into production in January 2003

Node exchange: N/A

### Number of submissions received:

This month: None  
Year to Date: None

Registrations: N/A

### Current Snapshot:

TSCA PMNs are not a data "flow", but a PDF form that CDX will be hosting on its Web site under the category "downloadable forms." The CDX Help Desk will respond to all calls related to the PMN.



## Glossary of Terms

<b>Exchange Network</b>	The Environmental Information Exchange Network is an Internet and standards-based secure data exchange between partners, built on the principles of integrated information, secure real-time access, and the electronic collection and storage of accurate information. The Exchange Network consists of data exchanges between 'nodes' or portals maintained individually by participating partners. Once established, these data exchanges will replace and complement the traditional approach to information exchange that currently relies upon States feeding data directly to multiple EPA national data systems.
<b>Flat file</b>	A flat file is a file containing records that have no structured interrelationship. The term is frequently used to describe a textual document from which all word processing or other structure characters or markup have been removed. EPA program databases typically use a flat file format to move data from state or local systems to the National systems
<b>Network Node</b>	A connection point, either a redistribution point or an end point for data transmissions. In general, a node has programmed or engineered capability to recognize and process or forward transmissions to other nodes.
<b>Schema</b>	An abstract representation of an object's characteristics and relationship to other objects. An XML schema represents the interrelationship between the attributes and elements of an XML object (for example, a document or a portion of a document). To create a schema for a document, you analyze its structure, defining each structural element as you encounter it.
<b>Technical Resources Group</b>	The TRG, a workgroup of the Network Steering Board (NSB), provides specific technical advice to the NSB on issues relating to the implementation and ongoing maintenance of the Exchange Network.
<b>Web services</b>	Services that are made available from an organization's Web server for Web users or other Web-connected programs.
<b>XML</b>	Extensible Markup Language is a flexible language for creating common information formats and sharing both the format and the data on the World Wide Web and elsewhere. XML, a formal recommendation from the World Wide Web Consortium (W3C), is similar to the language of today's Web pages, the Hypertext Markup Language