



Technocrats Domain Inc. (TCD) is Advanced IBM Partner providing staffing, consulting and training services in EDI, EAI, ETL, ERP and ESB technologies – IBM **WTX/ITX**, IIB, DataPower, ESB and Microsoft – BizTalk, .Net, Informatica, Salesforce, Tableau and SAP. We have been providing training and other staffing services in US, UK, and India since 1999 for many clients including:



TechnocratsDomain
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Advanced Partner

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 - Home Depot
 - Men's Warehouse
 - CDW
 - Hollister
 - Medtronic's
 - UPS
 - Weyerhaeuser

- **Health Insurance**
 - Blue Cross Blue Shield –
 - AL, TX, IL, SC
 - Hawaii, Puerto Rico
 - Catholic Health East
 - Colonial Life
 - Nasco
 - Palmetto Health
 - United Health

- **Financials**
 - Bank of Tokyo
 - Depository Trust Clearing Corp
 - Deutsche Bank
 - Principal Financial Group
 - Regions Bank
 - Wachovia (Wells Fargo)

- **Service Provider & Others**
 - Accenture
 - Avnet
 - Kapstone (Longview)
 - Logica CMG (UK)
 - Roberts Hawaii
 - Rent A Center
 - Time Inc. (Synapse)
 - Trans Canada

Technocrats Domain Inc provides 3 levels of WTX training: **Level 1, Level 2 and Level 3**

Level 1 Oriented for first time users of Mercator/DataStage TX/WTX

- ➔ New to ITX (WTX)
- ➔ Migrating from different EAI Technology
- ➔ Pre-Requisites: Knowledge of Proprietary File Formats, Data Types

Level 2 Oriented for people who are skilled at using Mercator/DataStage TX/WTX Design Studio and would like to use the tool in conjunction with EDI, MQ, DB, and other adapters.

- ➔ WTX with EDI/HIPAA, MQ, DB, XML
- ➔ Pre-Requisites: Knowledge of WTX Design Studio

Level 3 Performance tuning of the Trees, Maps and Configuration/Environment

- ITX/WTX For Launcher/IIB/DataPower/ESB - Unix/Linux/Windows environment
- ➔ ITX/ WTX Performance Tuning, Advanced Features – Error Handling, Best Practices
- ➔ Pre-Requisites: WTX Design Studio, Map Settings, Running Maps in Command Server

ITX 9 / WTX 8.4 and Higher –Level 1 (Fundamentals): Overview of the details covered in the training session:

3 days: Design Studio, 12 Exercises

5 days: Design Studio, 12 Exercises, Resource Registry, Integration Flow Designer

- Introduction
 - EAI, EDI, XML, Data Transformation.
 - File Types - Proprietary Files, EDI, XML, EDIFACT
 - How ITX (WTX/DataStage TX/Mercator) can be used in EAI, HIPAA, XML and EDI environments
 - What are adapters, pre-built functions
 - Introduction to Eclipse

- Design Studio – Type Designer, Map Designer
 - Introduction to Design Studio
 - Creating Workspace, Extender Project
 - Type Tree Creation Process
 - Definition and Properties – Items, Groups and Categories
 - Initiators, Delimiters, Terminators, Release Characters
 - Syntax Object
 - Create Type Trees, Analyze and Debug Type Trees
 - Sequencing and Setting Ranges for Components in the Groups
 - Using Partitions, Choice, Sequence Groups
 - Setting Restriction lists, Restarts, Identifiers, and Sized Attributes
 - Using Importers including XML DTD/Schema, Cobol Copybook
 - Component Rules and Control Break
 - Type Tree Differences
 - Class led by the Instructor will create 8 Type Trees

- Map Designer
 - Map Creation Process
 - Map Files, Maps, Extensions
 - Validation Maps
 - Introduction to Functional Maps
 - Map Settings – Trace, Logs, Backup
 - WTX Functions – Date, Time, Logical, Run, EchoIn, HandleIn, Substitute
 - Error Handling Functions: Reject-Restart, Valid, FAIL, LastErrorCode, LastErrorMsg, OnError
 - Map Settings - Audit Logs, Trace, Page Settings, File/Memory, Backups
 - Setting Maps in Single thread and Multi-thread mode
 - Data Audit Settings
 - Map Debugger, Profiler
 - Usage of MQ, FTP, Email, DB, Sink Adapters
 - Class led by the Instructor will create 12 Maps

- Design Studio Settings/Preferences
 - Transformation Extender Preferences
 - Trees
 - Maps
 - Deployment

- IBM WTX Certification – Sample Quiz - TCD

- Resource Registry (RR)
 - Why use RR
 - Where and when to use the Resource Registry Variables
 - Creation of MRC and MRN files led by the instructor
 - Configuring MRN files in the MRC file for Launcher, Command Server, Global
 - Porting MRN and MRC to the Unix Environments
 - Class led by the Instructor will create a MRN, MRC to run
 - Map Designer
 - Launcher

- Integration Flow Designer (IFD)
 - Why use IFD
 - Define Servers for deployment
 - Creation of MSD and MSL files using Map Source/Executable
 - Set up of Events/Triggers- Event (File/MQ/etc) and Time based
 - Creation of deployment Scripts
 - Deploying Additional Files
 - Setting up maps to run in a Event Server/Launcher
 - IFD Settings
 - Class led by the Instructor will create an MSD/MSL and Deploy
 - Advantages and Disadvantages of using IFD for deployments
 - Configuring the Systems (MSL) in Launcher/Event Server

ITX 9/WTX 8.4.X –Level 2: Overview of the details covered in the training session:

- WTX with Database Designer – 1 day
 - Overview of ITX/WTX Components
 - Why use DB Designer
 - Setting up DB Connections through WTX DB Designer
 - Creating Type Trees using DB Designer
 - Tables
 - Queries
 - Stored Procedures
 - Setup Update Keys
 - DBQuery, DBLookup
 - Using Resource Registry in DB Designer
 - WTX DB Designer Trace
 - Using DB Designer as Source and Target
 - Class led by the Instructor will create Map to use the MDQ
 - DB as Source
 - DB as Target

- WTX with IBM MQ – 1 day
 - Overview of WTX Components
 - IBM MQ Client, MQ Server Adapters
 - MQ Header Overview
 - Using IBM MQ Type Tree
 - MQ as Source and Target in WTX Maps
 - MQ Options with WTX (CID, MID, QTY, etc)
 - MQ Error Handling in
 - MQ Trace
 - Class led by the Instructor will create Map to run
 - MQ as Source
 - MQ as Target

- WTX with XML – 1 day
 - Overview of WTX Components
 - XML Schema and DTD
 - XML Validation Xerces vs Classic
 - Importer for XML Schema and DTD
 - Validation Enabling and Disabling in WTX
 - XML Hierarchy in WTX, WTX XML Error Debugging
 - Using XML Schema in Maps
 - Using Web Services in WTX
 - XML Utility Commands
 - Class led by the Instructor will create Map to run
 - XML as Source
 - XML as Target

ITX 9 / WTX 8.4 –Level 3 (Advanced): Overview of the details covered in the training session:

- Performance Tuning of the Maps and Environment – 1 or 2 days
 - Overview of WTX Components
 - Data Layout and Definitions
 - Syntax Terminator and Delimiters
 - Partition and Unordered Groups
 - Component Rules, Control Break Logic
 - Data Audit Settings
 - Settings – Burst Mode, Page Settings, WorkSpace
 - Usage of HandleIn vs EchoIn, Parameters to Functional Maps
 - Control/Workflow/Router and Run Maps
 - Searchup, Searchdown, Lookup, Extract
 - Error Handling Mechanism – Fail, Reject-Restart, Data Audit Settings
 - Map Debugger and Remote Debugger
 - Map Profiler – Example Analysis and Benefits
 - DSTX or wtx.ini settings
 - Configuration Settings in Integration Flow Designer (IFD)
 - Multi-Process Event Servers
 - Best practices/recommendations for coding (maps, type trees, and IFD)
 - Running WTX – Command Server, API, Launcher, ESB
 - Class led by the Instructor, will work on 2 projects using the advanced features

- Installing and Configuring Launcher – Windows, Unix, Linux – 1 day
 - Installation on Unix/Windows environments
 - Installation of Patches, Fixed Packs, Service Packs
 - Configuring libs, bin, Resource Registry files
 - EventServerAdmin.sh settings
 - Scripts for Stopping and Starting the Launcher/EventServer
 - Setting the ports for Launcher, HTTP
 - Setting up user Access for Launcher – Management Console Access
 - Multi-Process Event Servers
 - Running and Monitoring Maps in Unix/Windows – Management Console
 - INI file settings (threads, time outs, switching trace off, etc)
 - Configuring separate MRC, INI file for each Sub-System
 - Installing Launcher and Configuring

- Upgrading to ITX 9 /ITXA – 1 day
 - Introduction to WTX Eclipse
 - ITX 8.4 Workspace, and Projects
 - Design Studio – Extender Navigator, Navigator Components
 - Design Studio – Create Trees, Maps
 - Design Studio – Outline, Composition View
 - Design Studio – Logs, Profiler, Debugger
 - Linking, Exporting Type Trees across Cross Projects
 - Design Studio Preferences
 - Creating Stub, Validation Maps from Type Trees
 - Migrating Maps and Trees to 8.2
 - Deploying Maps to Unix, Linux, MVS, Windows Environment
 - Using XML Metadata/Schema as input/output instead of Type Trees
 - New ITX 9 functions such as XML Validate, JExit
 - New ITX 9 Adapters
 - Support for Data Power, WSDL Importer, ODBC Drivers on UNIX
 - Class led by the Instructor will upgrade 2 Interfaces and Systems to 8.2

Note:

- ➔ All training comes with 2 weeks of email support after the class
- ➔ All TCD Clients can utilize the WTX Map Documentation utility for free
- ➔ Onsite training needs at least 3 students
- ➔ TCD does not own or provide IBM ITX/WTX software