

Technocrats Domain Inc. (TCD) is Advanced IBM Partner providing staffing, consulting, offshore and training services in EDI, EAI, ETL, ERP and ESB technologies – IBM **WTX/ITX**, **ITXA IIB**, DataPower, B2Bi and Microsoft – BizTalk, Informatica, Salesforce, Tableau and SAP. We have been providing managed services in US, UK, and India since 1999 for many clients including:



## Few Vertical Customers of TCD

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<ul style="list-style-type: none"><li>• <b>Retail &amp; Supply Chain</b><ul style="list-style-type: none"><li>• CDW</li><li>• FedEx</li><li>• Home Depot</li><li>• Hollister</li><li>• International Paper</li><li>• UPS</li><li>• Weyerhaeuser</li></ul></li> <li>• <b>Health Insurance</b><ul style="list-style-type: none"><li>• ACS</li><li>• Aflac</li><li>• Blue Cross Blue Shield –<ul style="list-style-type: none"><li>• AL, TX, IL, HI, PR</li></ul></li><li>• Colonial Life</li><li>• Island Insurance</li><li>• Medical Mutual of Ohio</li><li>• Nasco</li><li>• United Health</li></ul></li></ul>	<ul style="list-style-type: none"><li>• <b>Financials</b><ul style="list-style-type: none"><li>• Bank of Tokyo</li><li>• Bridge Water</li><li>• Depository Trust Clearing Corp</li><li>• Deutsche Bank</li><li>• Principal Financial Group</li><li>• Regions Bank</li><li>• Wachovia (Wells Fargo)</li></ul></li> <li>• <b>Service Provider &amp; Others</b><ul style="list-style-type: none"><li>• Accenture</li><li>• Avnet</li><li>• Cognizant</li><li>• Fellowes</li><li>• Nippon</li><li>• Time Inc. (Synapse)</li><li>• <b>Puerto Rico</b><ul style="list-style-type: none"><li>• SSS, MMM</li><li>• Claro, Evertec</li></ul></li></ul></li></ul>
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Technocrats Domain Inc provides 3 levels of ITX training: **Level 1, Level 2 and Level 3**

**Level 1** Oriented for first time users of ITX

- ➔ 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 ITX/WTX Design Studio and would like to use the tool in conjunction with EDI, MQ, DB, XML.

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

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

- ➔ ITX for Launcher/IIB/DataPower/B2Bi - Unix/Linux/Windows environment
- ➔ ITX Performance Tuning, Advanced Features – Error Handling, Debugger, 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) can be used in EAI, HIPAA, SWIFT, 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 ITX 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 an 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:

- ITX 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
  
- ITX 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
  
- ITX 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 with DataPower, Sterling B2Bi

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

- Performance Tuning of the Maps and Environment – 2 days
  - Overview of **ITX** 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 ITXA (Launcher, SPE) – 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

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- Upgrading to ITX 9 /ITXA – 1 day
  - Introduction to ITX Eclipse
  - ITX 9.0 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 9.0
  - 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
  - Class led by the Instructor will upgrade 2 Interfaces and Systems to 9.0

Note:

- ➔ All training comes with 2 weeks of email support after the class
- ➔ Onsite training needs at least 3 students
- ➔ TCD provides staffing, consulting, offshore services
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