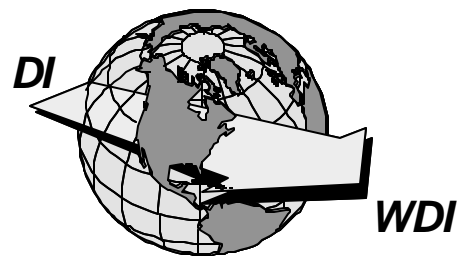


# *Moving to the DataInterchange Client*

**Maury Griffith  
Connection 2000**

**The Next Generation**

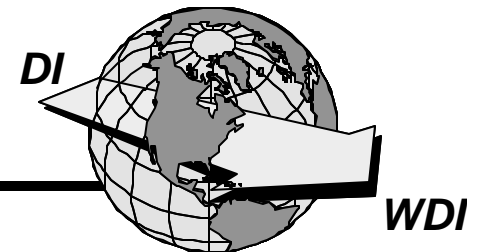


**2002 User Conference**

# What About the Client?

---

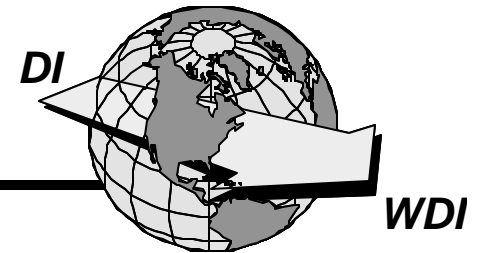
- ★ Do I need it?
- ★ Do I want it?
- ★ What are the differences between 3.1 and 4.1?
- ★ What does it take to make the move?
- ★ What does it buy me?
- ★ Can I convert my maps?
- ★ What about XML?
- ★ How do I make the move?



# Do I Need It?

---

- ★ Yes! – If you are converting to DataInterchange 4.1.
- ★ Yes! – If you require XML translation.
- ★ Yes! – If you plan to use WebSphere Data Interchange.
- ★ No! – If you only require traditional EDI translation in the mainframe environment, there is no immediate need to upgrade beyond DI 3.1 (support will eventually be discontinued, however).

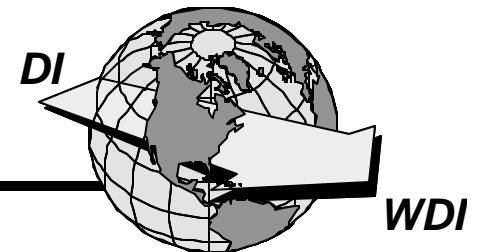


# DI 4.1 and the Client

---



Application Data Formats,  
Trading Partner Transactions  
(Mapping), and Standards are  
available *only* in the Client  
with DataInterchange 4.1.



MP01

DataInterchange for MVS Version 4.01 Main Menu

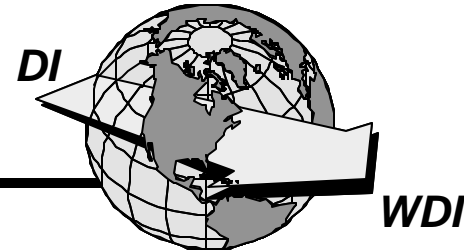
5655-G99 (c) Copyright IBM Corp. 1989, 2002  
All Rights Reserved. Licensed materials - Property of IBM

Type the number of your choice and press Enter, or press the Exit key to exit. Functions with an \* are available on DataInterchange Client.

- Choice ==>   \_\_ - ~~1. (reserved for future use) - - - - -~~  
              2. Profiles  
              3. Event Logging  
              ~~4. \* Mapping (Trading Partner Transactions)~~  
              ~~5. \* EDI Standards~~  
              ~~6. \* Application Data Formats~~  
              7. Translation and Validation Tables  
              ~~8. \* Envelope Standards~~  
              9. Transaction Store Facility  
              10. Export  
              11. Import  
              12. Utility

Command ==>

Enter Tso F1=Help F3=Exit F9=Retrieve  
F13=Keys help



# XML and the Client

---

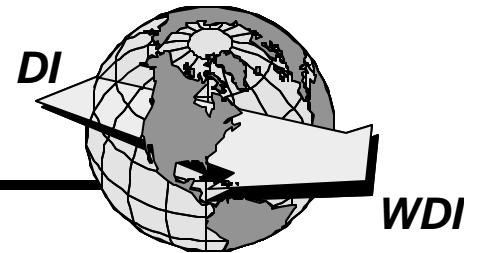
XML mapping is supported *only* in  
the Client with:

DataInterchange 3.1,

DataInterchange 4.1,

or

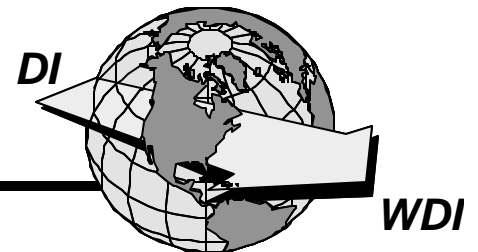
WebSphere Data Interchange.



# Without the Client

---

- ★ You will not be able to map XML translations.
- ★ You will not be able to upgrade to DataInterchange 4.1.
- ★ All DataInterchange administrative functions will remain on the mainframe.

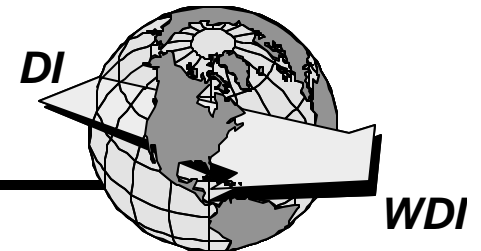


# Do I Want It?

---



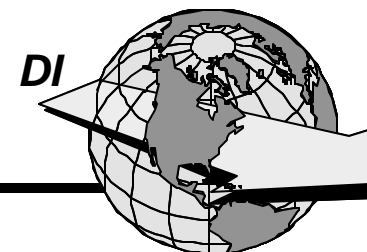
- ★ Am I Windows literate? Am I familiar with Windows conventions, menu bars, button bars, and navigation?
- ★ Do I understand the concept of “Drag and Drop”?
- ★ Would I like to see both data layouts (Dictionaries - EDI, XML, CSV, Raw, or C&D) of the translation displayed on the screen?



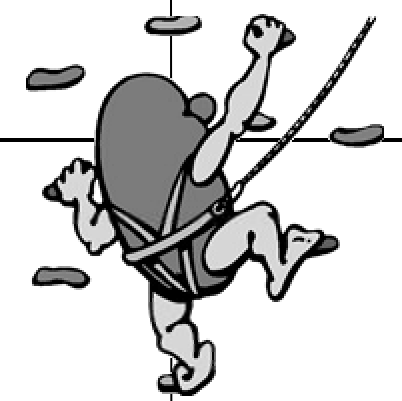


# Differences 3.1 vs. 4.1

| DataInterchange 3.1                                | DataInterchange 4.1   |
|--|---|
| Translates Application Data to/from XML            | Translates XML, CSV, Application Data, EDI                      |
| Send/Receive Mapping                               | Send/Receive and Data Transformation Mapping                    |
| Map in Client or Mainframe                         | Map in Client only  |
| Separate formats for Maps, Data Formats, Standards | Only one format for Maps, Data Formats, Standards (Client only) |
| Config., Custtime, Runtime databases               | Config. and System databases                                    |



ê



OPIC (Data based (Stored A/dy))

•



# Can I Convert My Maps?

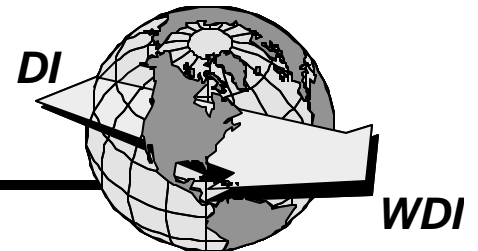
---

## ★ DataInterchange 3.1

- Mainframe and Client Maps (and Standards and ADFs) are in different formats.
- The Client provides a Convert action.

## ★ DataInterchange 4.1

- Installation provides database and map migration. (DI 3.1 maps cannot be automatically migrated to Data Transformation maps however.)
- There is only one database format for Maps, Standards, and ADFs (Data Formats).



# What About XML?

---

★ **FIRST – You NEED the Client!**

★ **DataInterchange 3.1 Client**

- **Maps between Application Data and XML**

★ **DataInterchange 4.1 Client**

- **Maps between any of:**

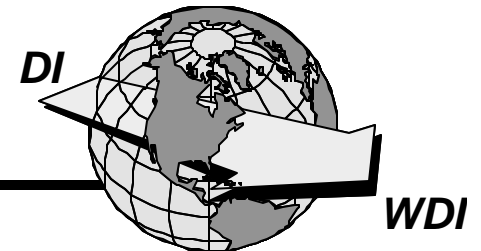
↗ **Raw Data**

↗ **XML**

↗ **C&D Records**

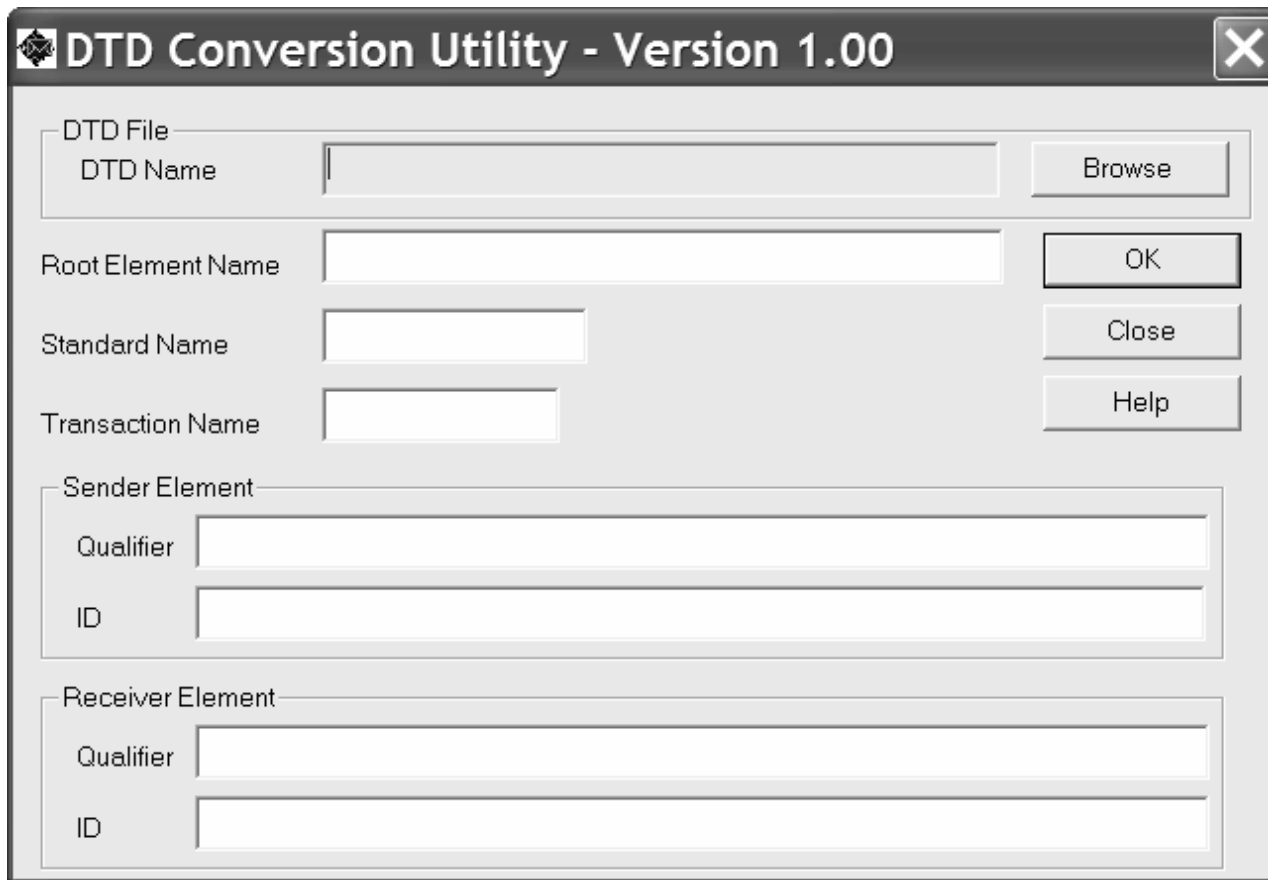
↗ **EDI Data**

↗ **Comma Separated Values**



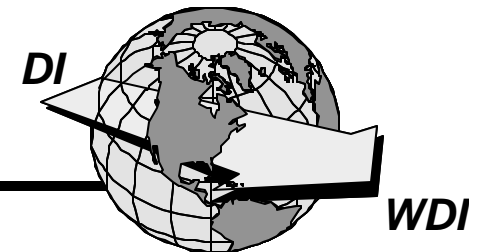
# Creating an XML Standard and Dictionary

---



The screenshot shows a dialog box titled "DTD Conversion Utility - Version 1.00". It contains several input fields and buttons:

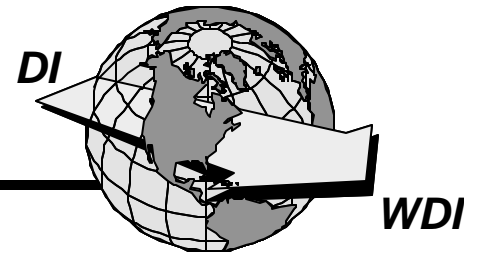
- DTD File:** A text field labeled "DTD Name" with a "Browse" button to its right.
- Root Element Name:** A text field with "OK" and "Close" buttons to its right.
- Standard Name:** A text field with a "Close" button to its right.
- Transaction Name:** A text field with a "Help" button to its right.
- Sender Element:** A section containing two text fields: "Qualifier" and "ID".
- Receiver Element:** A section containing two text fields: "Qualifier" and "ID".

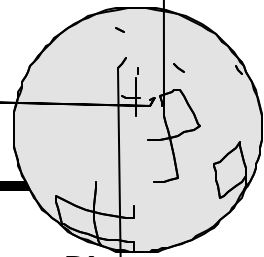


# How Do I Make the Move?

---

- 1. I am currently using DataInterchange 3.1.**
- 2. I am moving to the Client when we install DataInterchange 4.1.**

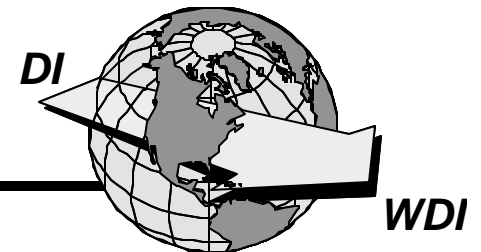




# Installing DataInterchange 4.1

---

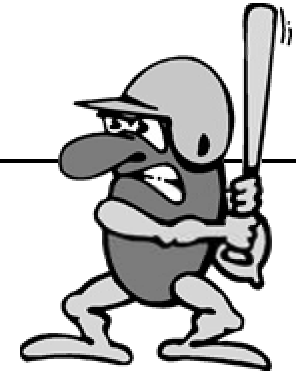
- ★ Before you upgrade to 4.1, if you have the opportunity, install the DI 3.1 Client and get familiar with it.
- ★ Read the manual, take a class, use help, don't expect all of this to be "intuitive."
- ★ Make sure you understand the "Dictionary" concept.
- ★ Work with Send/Receive mapping only, then tackle Data Transformation Maps.
- ★ Review your mainframe Data Formats and Maps that were converted to Client as part of the 4.1 installation.
- ★ Try stuff. Play with it!



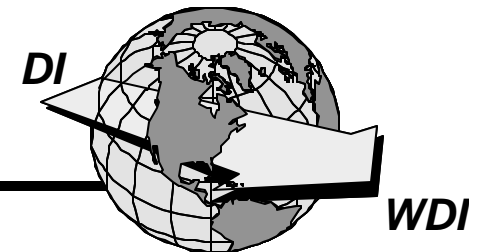


# Are You Ready?

---



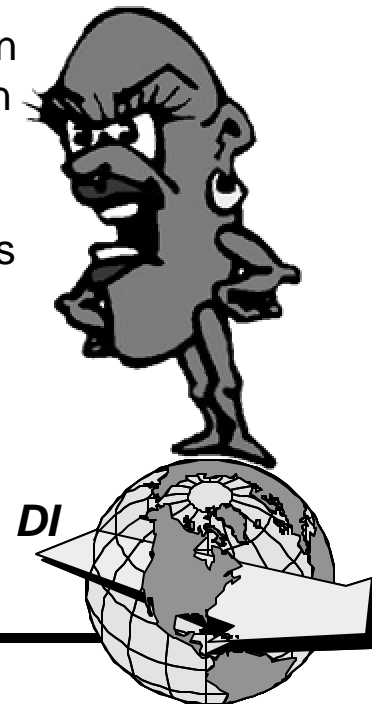
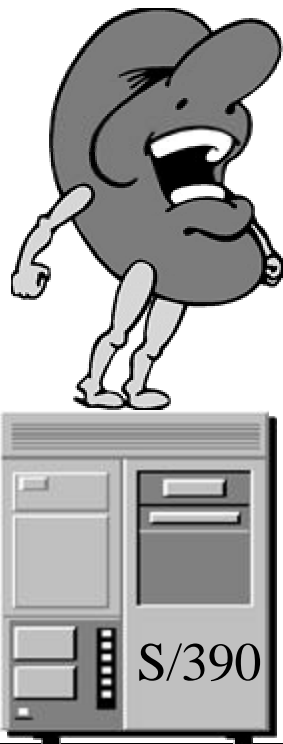
- ★ Do you know the vocabulary of the Client?
- ★ What are your configuration options?
- ★ What concepts are different in the Client?
- ★ How can I use the Client most effectively?
- ★ What is Data Transformation Mapping?
- ★ What are the pros and cons?
- ★ Any final recommendations?



# A New Vocabulary

---

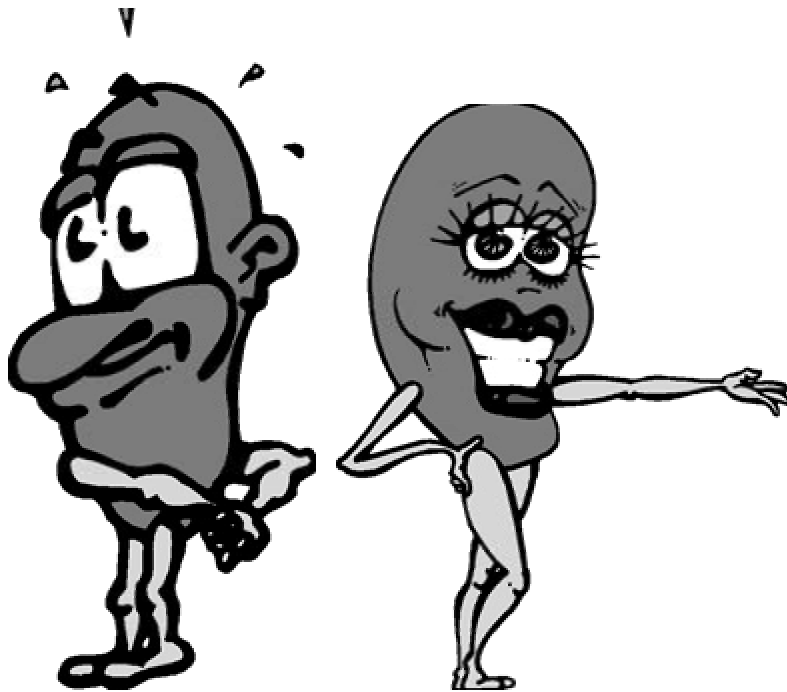
|                                   |                        |
|-----------------------------------|------------------------|
| Application Definition Profile    | Application Defaults   |
| Log File                          | Log Data               |
| Multiple Occurrence Mapping       | Path Qualified Mapping |
| Requestor Profile                 | Mailbox                |
| ADAM Control Table                | User Exits             |
| Profiles (except Trading Partner) | Setup                  |
| Structures Not Passed Separately  | Structures             |
| Structures Passed Separately      | Records                |
| Generate                          | Compile                |
| R-Type Translation Table          | Reverse Translation    |
| T-Type Translation Table          | Forward Translation    |
| Trading Partner Transactions      | Mapping / Maps         |
| ADFs                              | Data Formats           |
| Network Operation Profile         | Network Commands       |
| System Profile                    | CICS Performance       |
| Security Profile                  | Network Security       |
| Validation Table                  | Code List              |
| Envelope Profiles                 | Envelope Defaults      |



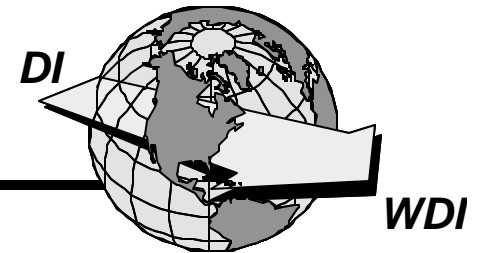
# Configuration Options

---

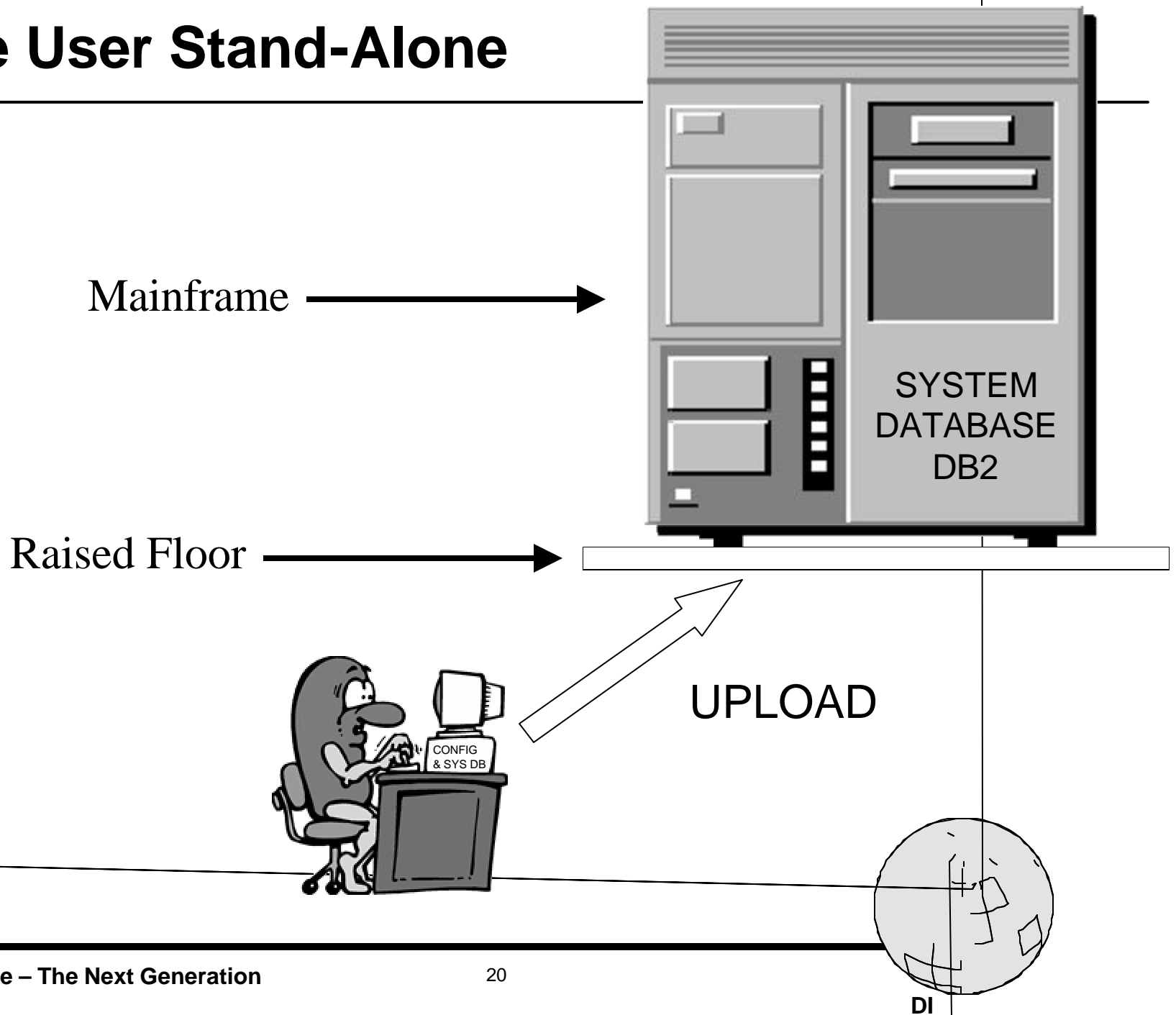
STAND-ALONE



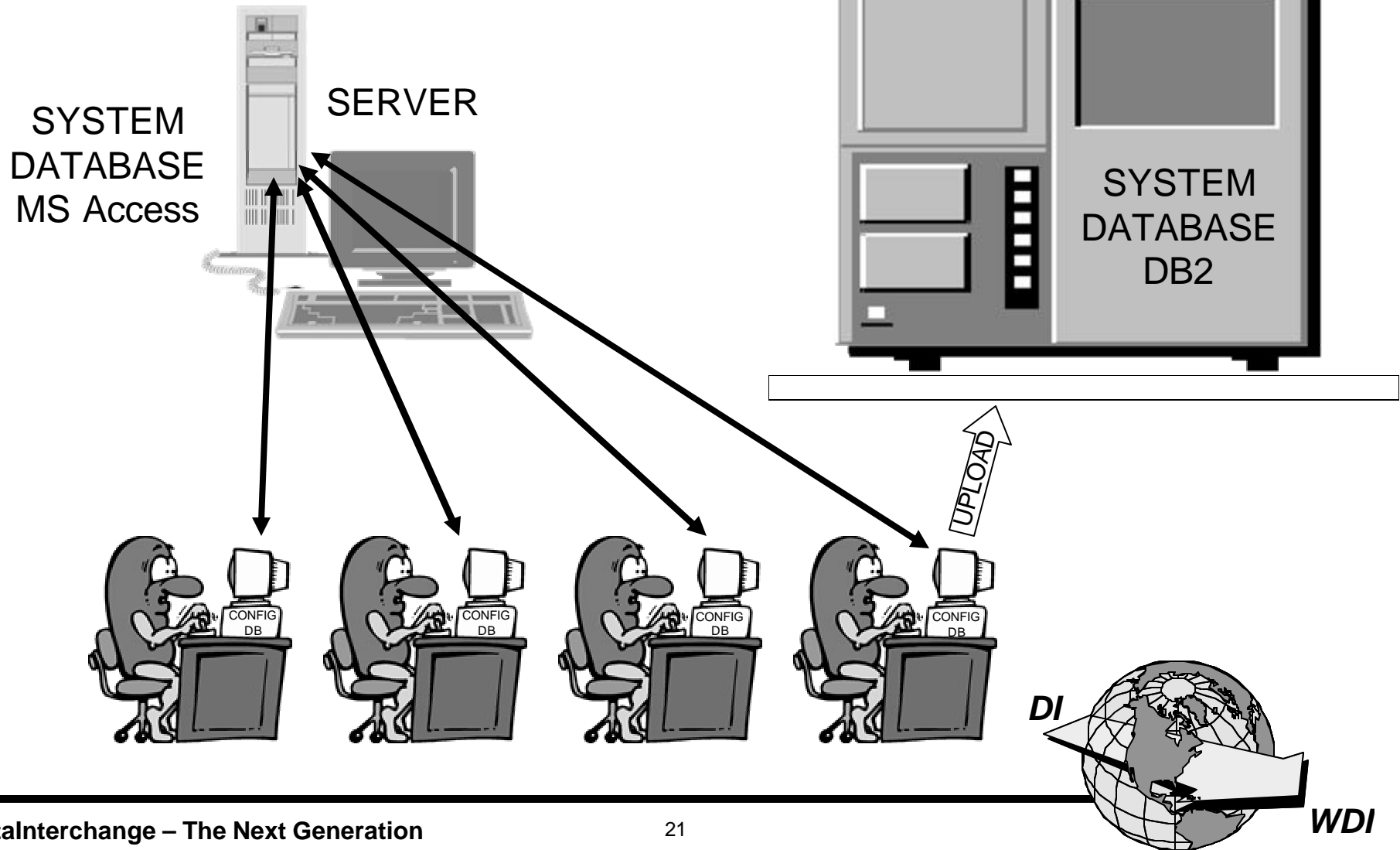
CLIENT/SERVER



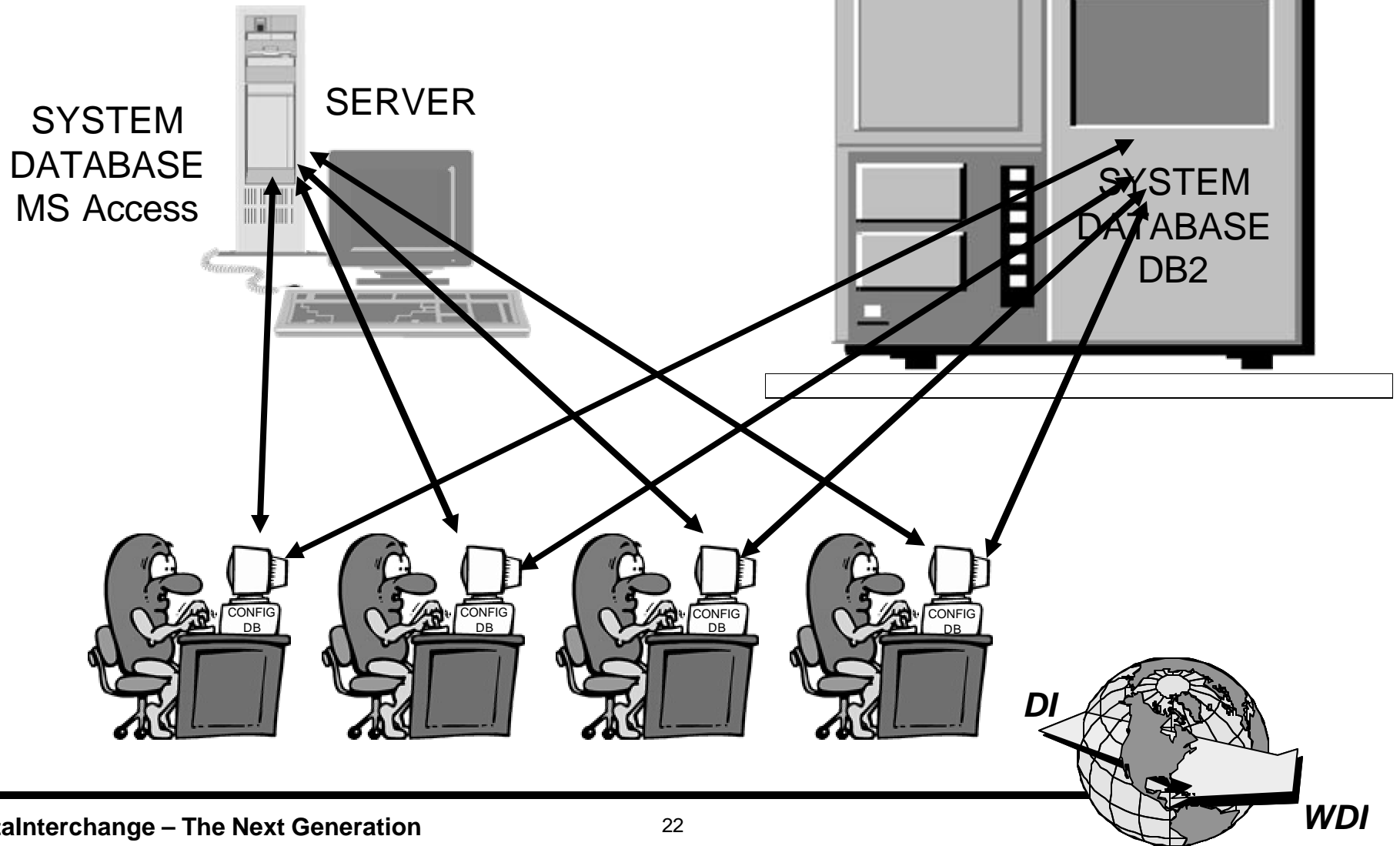
# Single User Stand-Alone



# Multi-User Stand-Alone



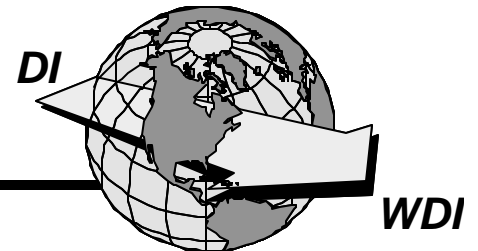
# Multi-User Client/Server



# Client Concepts

---

- ★ **Mapping, Data Formats, and Standards must be managed on the DataInterchange Client.**
- ★ **Data (Application, EDI, XML) are defined by Dictionaries.**
- ★ **Other administration (Profiles, Usages, Tables, Rules, Code Lists, Transaction Store) may be handled on the Client or the mainframe.**
- ★ **Control Strings must be moved to the mainframe for translation.**
- ★ **Control Strings may be uploaded to the mainframe database or the database may be accessed via middleware and ODBC.**
- ★ **The Client may be shared on a LAN.**



# Effective Use of the Client

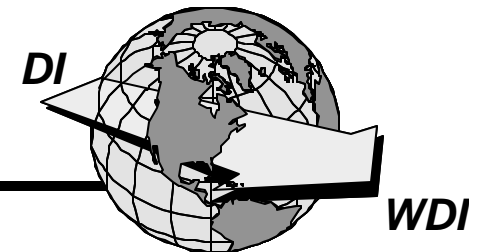
---

## ★ Recommended configuration:

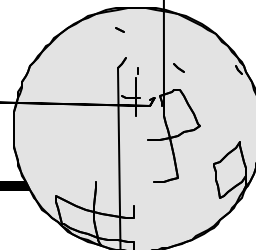
- Multi-User Client/Server
- System database on mainframe with backup on server
- Local (sandbox) system database on workstations

## ★ Considerations

- Plan for and use Data Format dictionaries
- Establish site naming conventions and change control





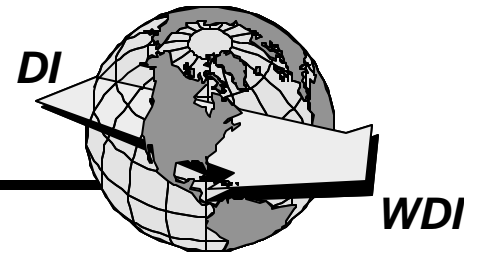


# Inbound/Outbound Mapping

---

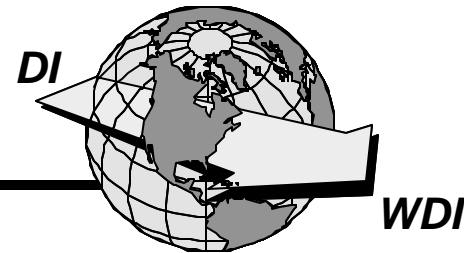
## ★ Steps for creating a new map:

- Name and describe the map
- Select data format dictionary
- Select the data format
- Select the standard dictionary
- Select the standard transaction
- Confirm the selections
- Map it!



# The Client Map

The screenshot shows the 'DataInterchange Client 4.1 - [Development - Map - GENERICMAP]' window. The menu bar includes File, Actions, Edit, Navigate, View, Window, and Help. The toolbar contains icons for file operations and navigation. The 'System' dropdown is set to 'Development'. The main area has tabs for 'General', 'Details', and 'Comments'. The 'General' tab is active, showing a tree view of data elements. On the left, under 'WHAZZIT', there is a 'HEADER' section with fields: RECID, TP, PONUM, PO-TYPE, ORG-ID, ADDRESS, CITY, STATE, POSTAL-CODE, COUNTRY, and a 'REFERENCE' section with RECID and EFCC. On the right, 'Application Control Fields' are listed for '850 [Purchase Order]'. A segment '20 M BEG [Beginning Segment for Purchase Order]' is selected, containing fields: 1 M 353 [Transaction Set Purpose Code], 2 M 92 [Purchase Order Type Code], PONUM in HEADER, Literal of : &SET VPOCHAR1 &E(VPONUM RD 1), Literal of : &IF (VPOCHAR1 = 'A') RO, PO-TYPE in HEADER, 3 M 324 [Purchase Order Number], 4 O 328 [Release Number], 5 M 373 [Date], 6 O 367 [Contract Number], 7 O 587 [Acknowledgment Type], and 8 O [Invoice Type Code]. Two arrows point from the 'CITY' and 'STATE' fields in the left pane to the 'Literal of : &IF (VPOCHAR1 = 'A') RO' field in the right pane.



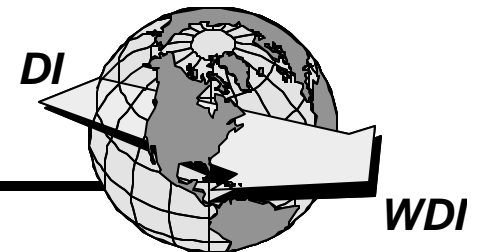
# Data Transformation Mapping

---

★ **Source and Target Data are Defined by *Dictionaries*.**

★ **Dictionaries Define 3 Syntax Types:**

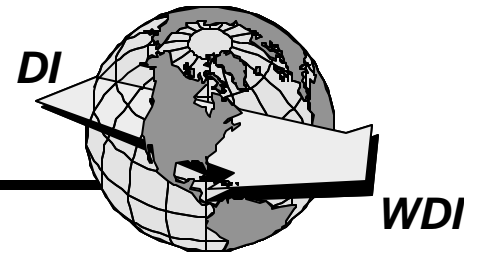
- **Data Format (Raw, C&D, CSV)**
- **EDI (EDI Standard)**
- **XML (Based on DTD)**

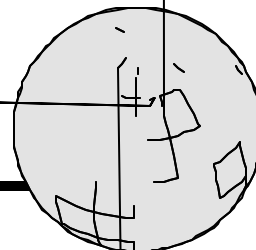


# Steps for Creating a New Data Transformation Map

---

- ★ Name and describe the map
- ★ Select the type of map
- ★ Select the source syntax type
- ★ Select the source dictionary
- ★ Select the target syntax type
- ★ Select the target dictionary

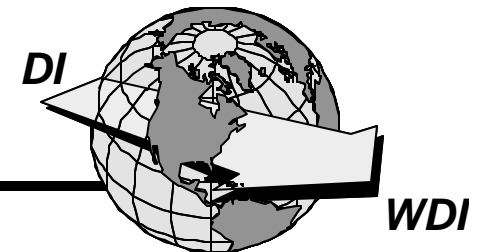
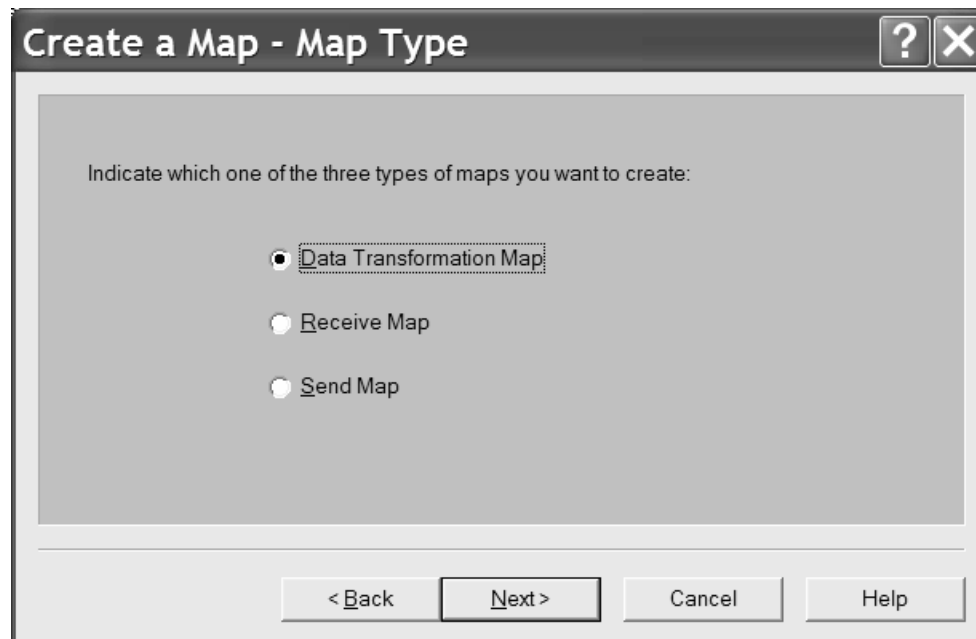




# Data Transformation Mapping

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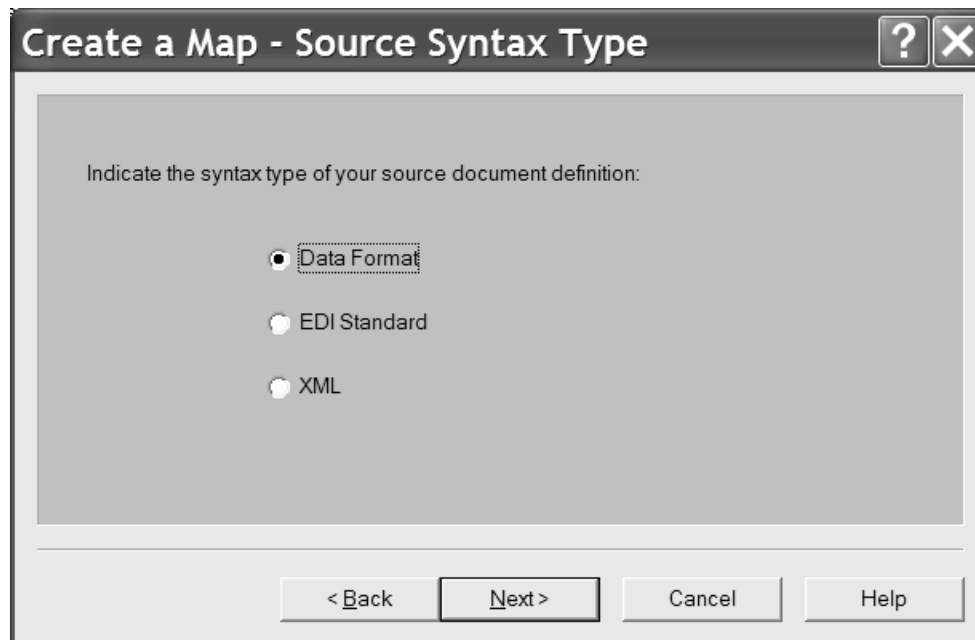
## ★ Step 2 – Identify the Type of Map



# Data Transformation Mapping

---

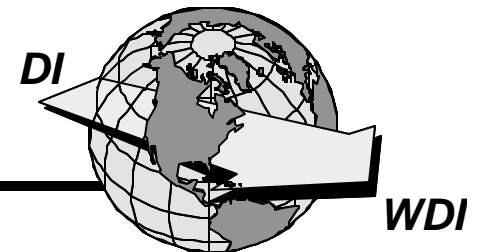
## ★ Step 3 – Identify the Source Syntax Type



Indicate the syntax type of your source document definition:

- Data Format
- EDI Standard
- XML

< Back   Next >   Cancel   Help





# Data Transformation Mapping

---

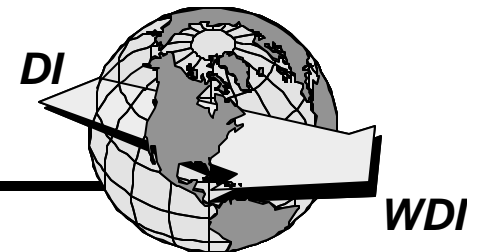
## ★ Step 4 – Identify the Source Dictionary

**Create a Map - Source Dictionary** [?] [X]

You need to identify the data format that will be used as the source document definition in your map. Start by selecting the data format dictionary that contains the data format, then press the Next button.

| Dictionary Name | Description  |  |
|-----------------|--------------|--|
| 350REC          |              |  |
| AIRC856A_DIC... | AIR CAN...   |  |
| ANNUITYNET      | Annuity n... |  |
| CLASS-ADF_DI... | Class Pur... |  |
| COMMON          | Common ...   |  |
| SAMPLE          |              |  |
| SAMPLE-XML      | Dictionar... |  |
|                 |              |  |
|                 |              |  |

< Back   Next >   Cancel   Help



# Data Transformation Mapping

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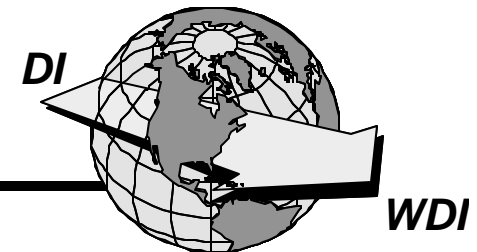
## ★ Step 5 – Identify the Data Format (since *Data Format* was chosen)

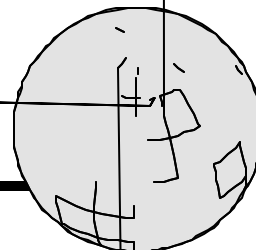
Create a Map - Source Data Format

Identify the data format that will be used as the source document definition in your map, then press the Next button.

| Data Format Name | Description |  |
|------------------|-------------|--|
| PO_DATA_V2       | Received... |  |
| PO_DATA_V3       | Received... |  |
| WHAZZIT          | Sample ...  |  |
|                  |             |  |
|                  |             |  |
|                  |             |  |
|                  |             |  |
|                  |             |  |
|                  |             |  |
|                  |             |  |

< Back   Next >   Cancel   Help





# Data Transformation Mapping

---

## ★ Step 7 – Identify the Target Dictionary

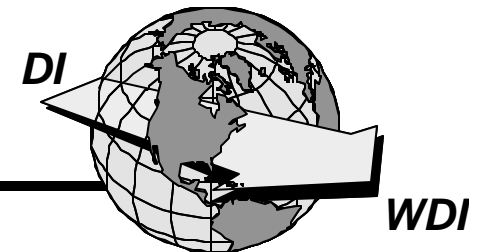
Target Dictionary ? X Create a Map

XML DTD that will be used as the target document definition in your the XML dictionary that contains the DTD, then press the Next button.

description:

| Dictionary Name | De |
|-----------------|----|
|                 |    |
|                 |    |
|                 |    |
|                 |    |
|                 |    |
|                 |    |
|                 |    |
|                 |    |
|                 |    |
|                 |    |

< Back Next > Cancel Help



# Data Transformation Mapping

---

## ★ Step 8 – Confirm the Selections

**Create a Map - Confirmation** [?] [X]

Confirm the following selections. If correct, press Finish to save the information and open the Mapping editor.

|              |                              |
|--------------|------------------------------|
| Name:        | SAMPLE-DT-MAP                |
| Description: | Example of DT Map Definition |
| Type:        | Data Transformation Map      |

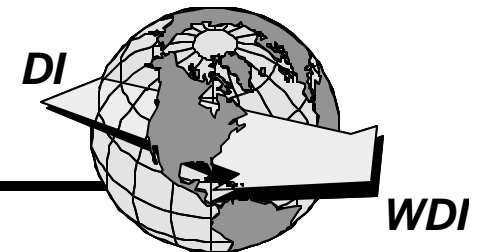
Source Document Definition:

|                  |              |
|------------------|--------------|
| Syntax Type:     | EDI Standard |
| Dictionary Name: | X12V4R1      |
| Transaction:     | 811          |

Target Document Definition:

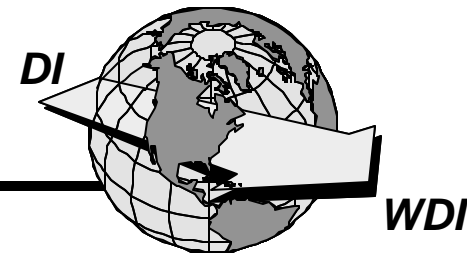
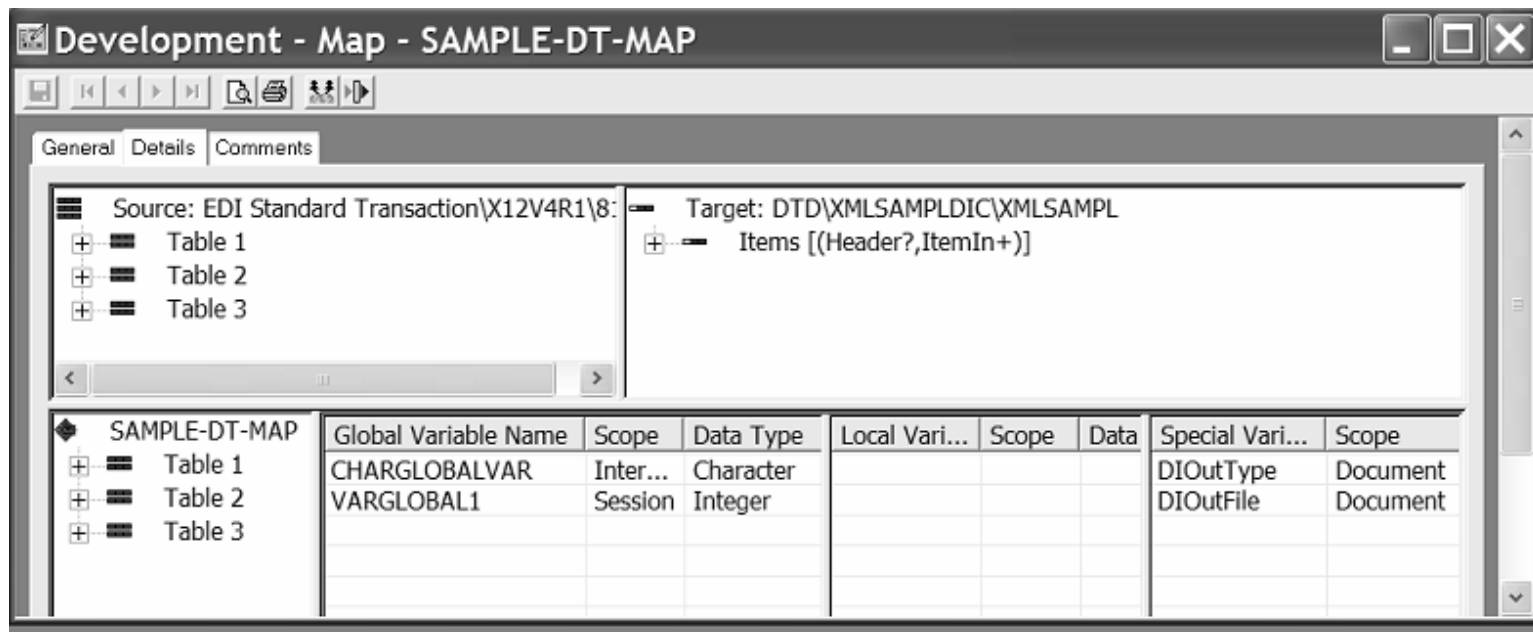
< >

< Back Finish Cancel Help



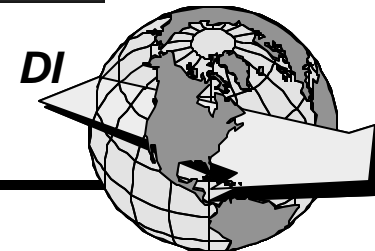
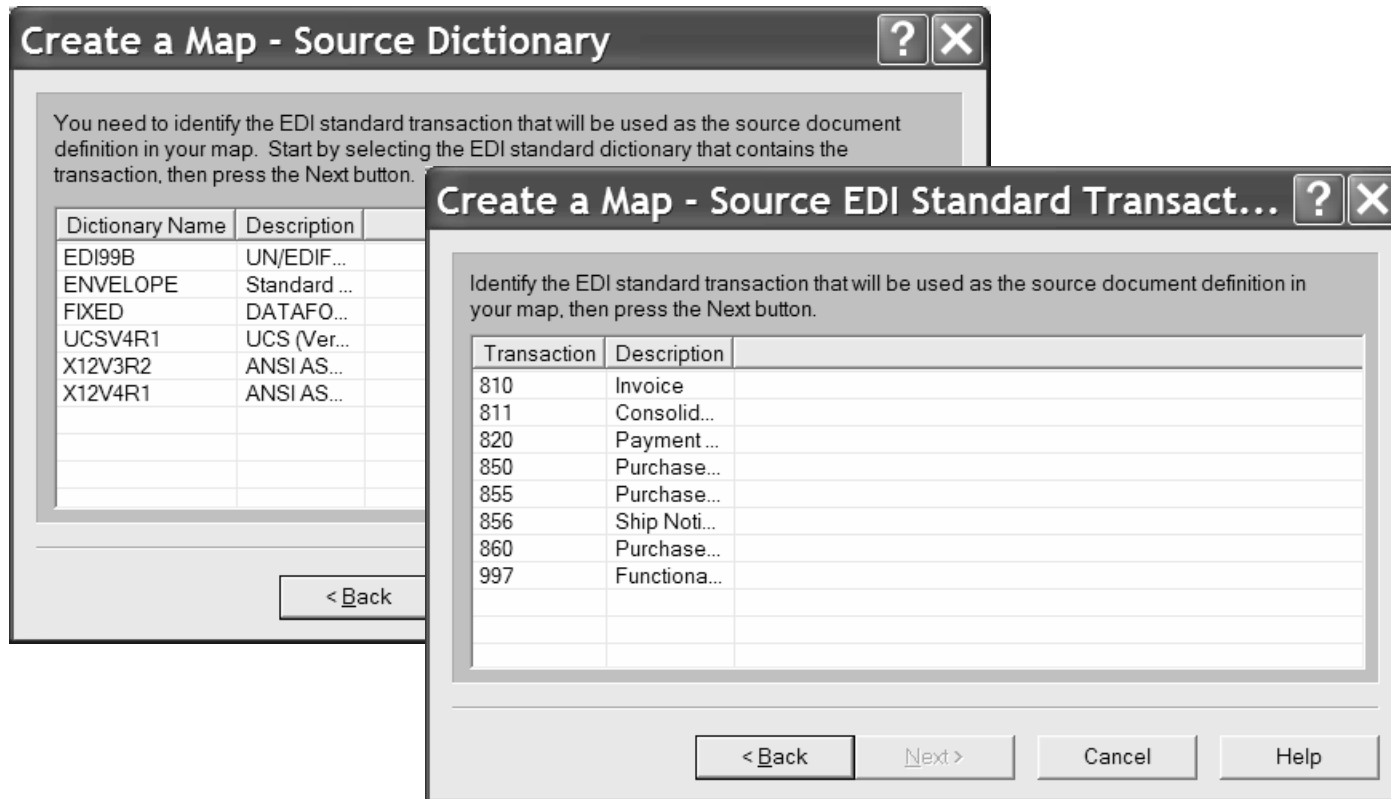
# Data Transformation Mapping

## ★ Step 9 – Begin the Mapping Process



# Data Transformation Mapping

- ★ If EDI data had been selected, you would have been ask to select a standard and transaction.



# Pros and Cons



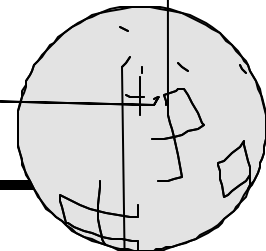
+

- ★ It supports XML translation.
- ★ It supports CSV formatted data.
- ★ It uses standard Windows conventions (e.g. drag and drop).



-

- ★ It requires DTDs and does not support Schemas.
- ★ Client/Server mode requires middleware and other resources.
- ★ You've got a learning curve!

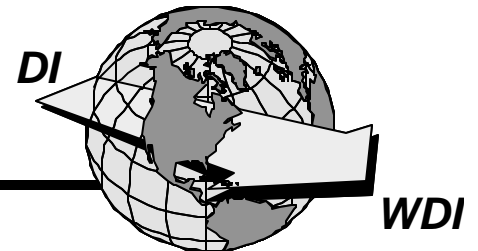




# Final Recommendations

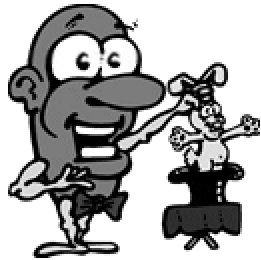
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- ★ **Accept that you WILL move to the Client.**
- ★ **If XML translation is in your future, begin looking at the Client now.**
- ★ **Consider skipping the “Stand-Alone” phase and moving directly to Multi-User Client/Server mode.**
- ★ **If your installation is not yet ready to commit to the Client, do not let that prevent you from learning it and testing it in Single User Stand Alone mode.**

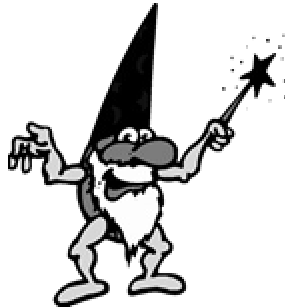


# You Can Do It!

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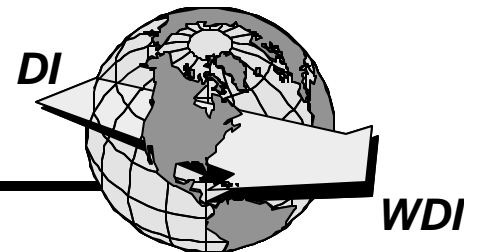
It's not magic!



Apply your skills.



Make it your bedtime reading.



# Enjoy Your Stay in Tampa Bay!

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