Don't let this happen to you – Client Migration Tips

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WebSphere software

ⓔ business software

MetLife®

- #1 U.S. Life Insurer - $2.4 trillion life insurance in-force (as of 12/31/02)

- Largest non-medical provider of institutional employee benefits

- Provide benefits to 37 million employees and family members through their plan sponsors and 88 of Fortune 100 Companies

- Ranked #1 in most group product areas - life, dental, auto and home, and long-term care; and the #1 commercial dental carrier

- Customers -

  - U.S. - approximately 12 million individuals in the U.S.

  - International - 8 million customers in 12 countries

- Listed on NYSE - April 2000

MetLife®

Products and Services

- **U.S. Insurance and Financial Services businesses**

  Individual Business: Financial planning, life insurance, annuities, long-term care, disability, mutual funds and securities

  Institutional Business: Life insurance, retirement and savings, group non-medical health (e.g., short- and long-term disability, long-term care, dental) and voluntary benefits

- **International Operations:** Life insurance, accident and health, annuities, retirement and savings, automobile and homeowner's insurance
- **Asset Management:** Mutual funds, separate accounts and real estate products
- **Auto & Home:** Automobile, homeowner's, boat, excess liability and miscellaneous personal lines property and casualty insurance
- **Reinsurance:** Life reinsurance, facultative and automatic, as well as financial reinsurance

Don't Let This Happen To You - Client Migration Tips

- Client Migration Overview

- Setting up the environment

- DI Host to DI Client Migration

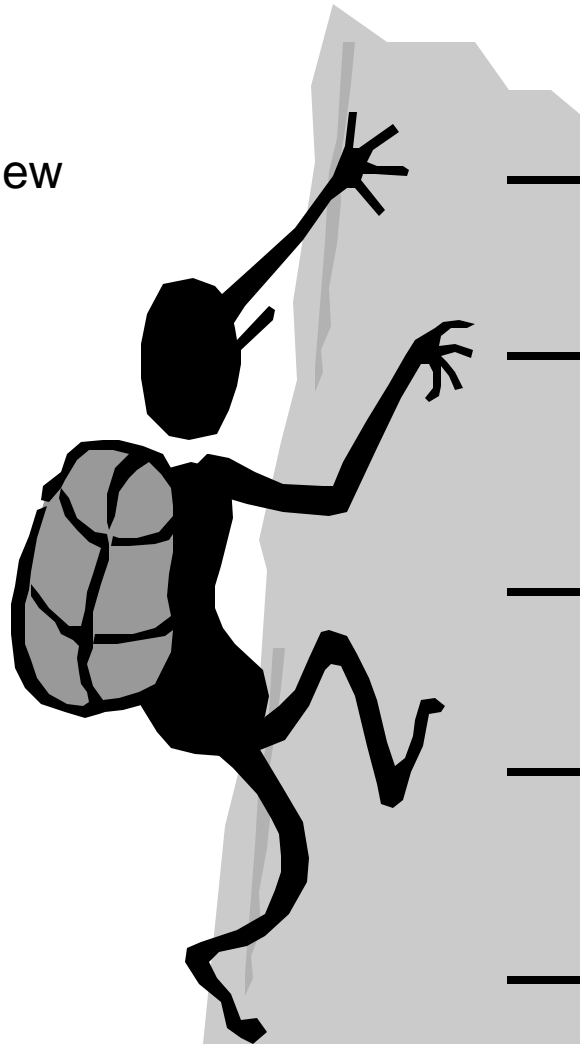- DI Client Deployment

- Future Direction

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Survival Tips

- Client Migration Overview

- Setting up the Environment

- DI Host to DI Client Migration

- DI Client Deployment

- Future Direction

Know your Environment

Be Prepared and Have a Plan!

Be Adaptable

Assess the Risk and Be Proactive

Enjoy the Ride...

1. Know Your Environment (Client Migration Overview)

- Why use the Client?

- Where we started.

- Where we are today.

Why Use The Client?

- HIPAA Compliance

- Ease of use

- Exploit computing power of the mainframe

- Ability to have multiple systems up at the same time

- XML translation

- Position MetLife for the move to Web Sphere Data Interchange 3.2

Soaring into the Future – WebSphere Data Interchange
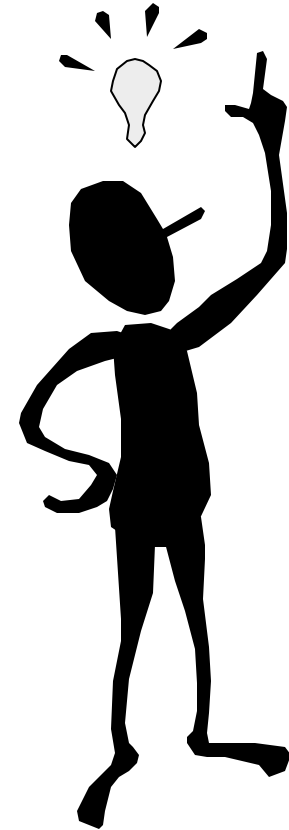
Where We Started

- OS/390 MVS System 2.10

- DB2 Version 5

   2 DB2 Subsystems configured
      1 Test
      1 Production

- DataInterchange 2.1 - Host only
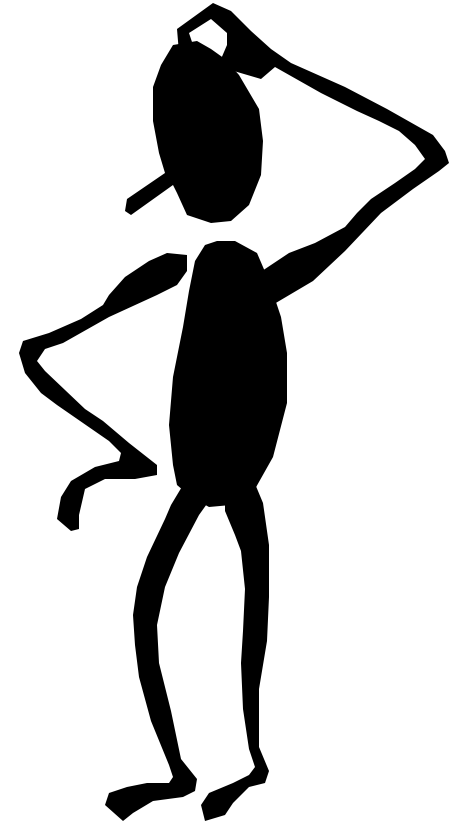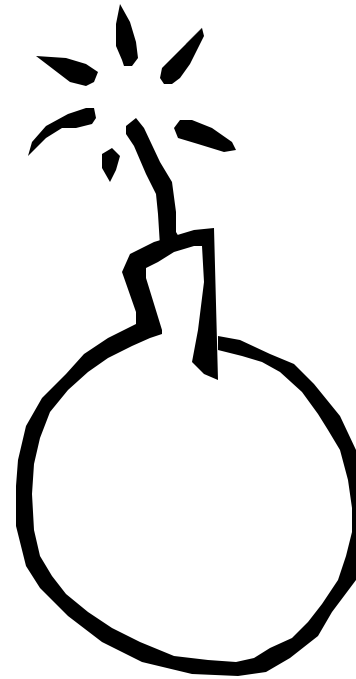
   In need of several levels of maintenance and PTF's

Where We Are Today

- z/OS MVS System - 01.02.00

- DB2 Version 7 environment:

  4 DB2 Subsystems

  2 Lab environments

  1 Test

  1 Production

- DataInterchange 3.1 - on Host and Client

  Current on all maintenance and PTF's to date

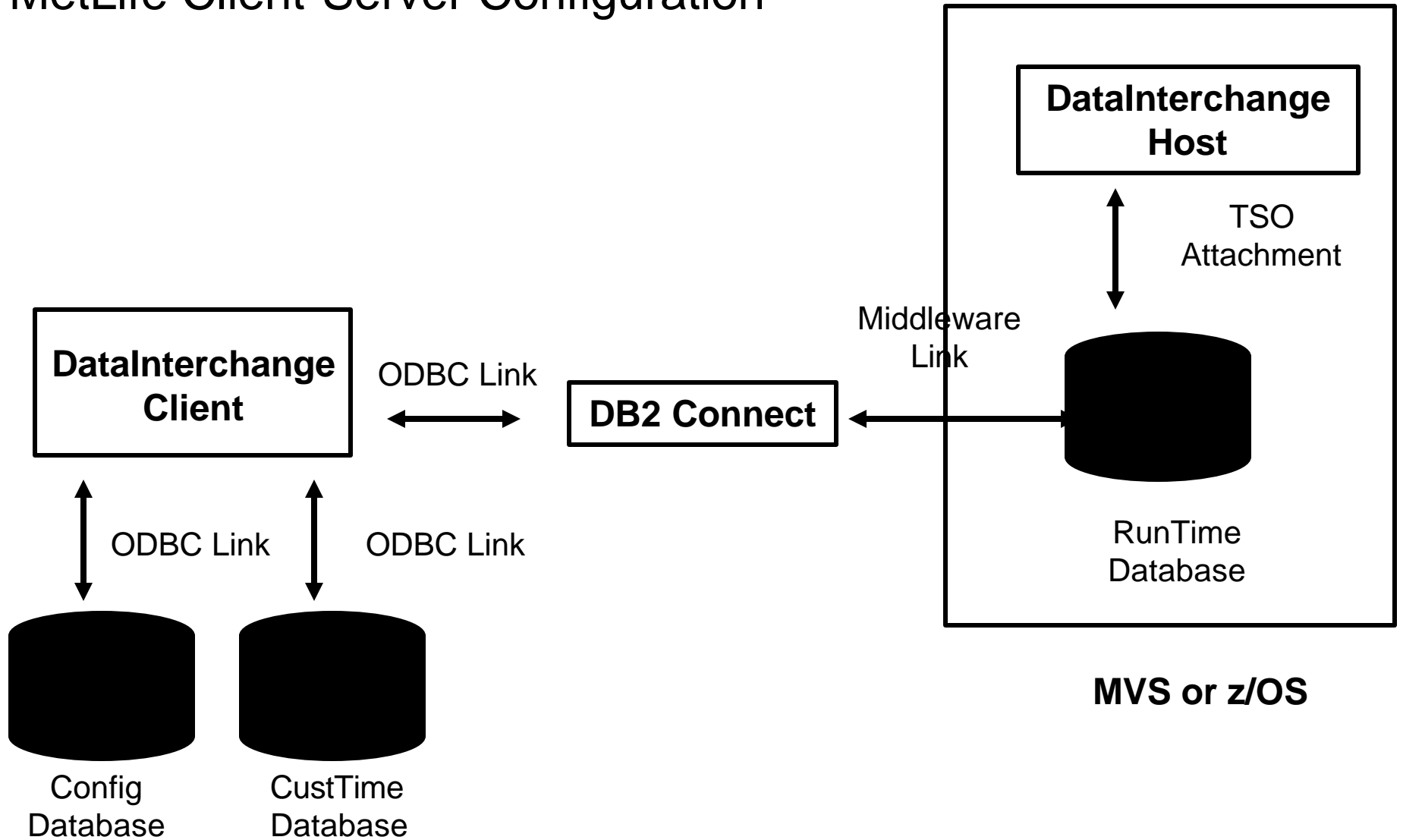## 2. Be Prepared and Have a Plan! (Setting Up the Environment)

- MetLife z/OS configuration

- DB2 V7

- Multi-User, Client-server, All DB2 for MVS

- DB2Connect as gateway
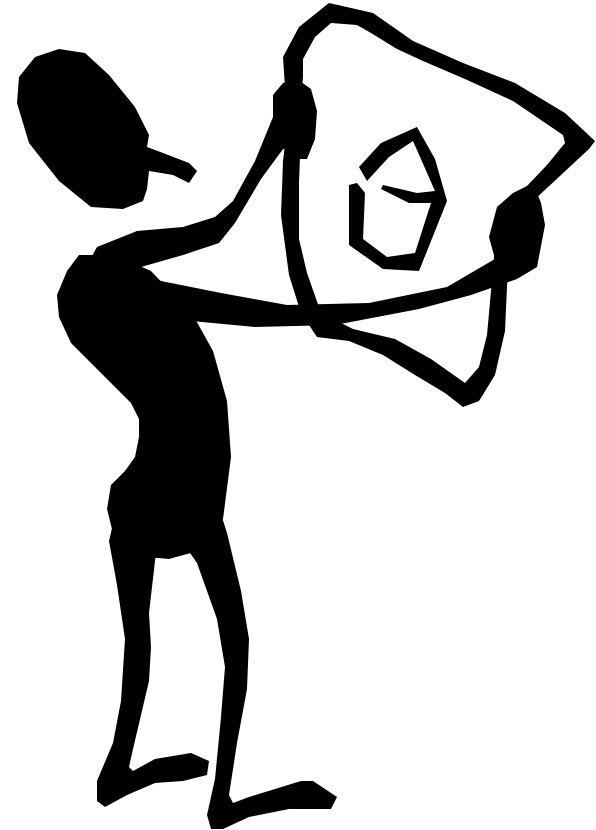
# MetLife z/OS Configuration

- Operating System: z/OS 1.02
  - first upgraded to 64 bit processing
  - second upgrade to z/0S 1.01

- Middleware: DB2 Connect Version 7.2

- DB2 Version 7

- RACF

- XML Toolkit Version 1.2

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MetLife Client-Server Configuration

DataInterchange Host

TSO Attachment

Middleware Link

DataInterchange Client

ODBC Link

DB2 Connect

ODBC Link   ODBC Link

RunTime Database

MVS or z/OS

Config Database   CustTime Database

Middleware: DB2Connect Version 7.2

- Real time updating to the host in client-server mode via ODBC link

- Ideal for multi-user environment working with DataInterchange Client concurrently

- Greater "up" time

- CPU utilization is better

**Soaring into the Future – WebSphere Data Interchange**
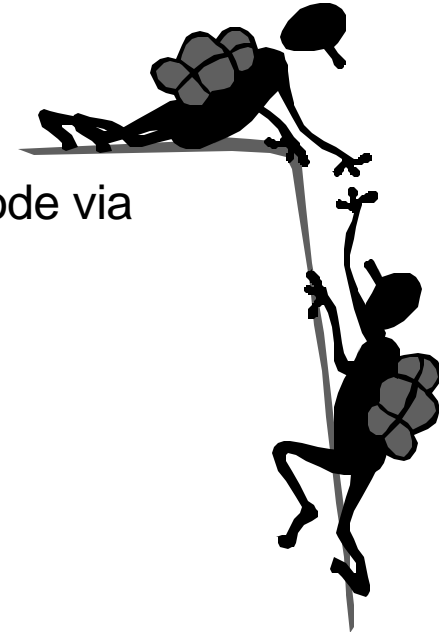
RACF

- DB2 invokes RACF to determine access to DataInterchange

  - GRANT user privileges to the DB2/MVS Tables

  - Provide SELECT, INSERT, UPDATE and DELETE privileges on subset of tables in our test environment ONLY

    - Same for RunTime and CustTime databases

- Group by DataInterchange environment
  - Previously had multiple RACF profiles defined by project codes

  - Consolidation of profiles to user's actions

XML Toolkit

- DI Client 3.1 - requires XML Toolkit version 1.1

  – no upward compatibility with later versions of the toolkit.

  – MetLife already upgraded to version 1.2 of the XML Toolkit. Therefore not able to use the XML Toolkit at this time.

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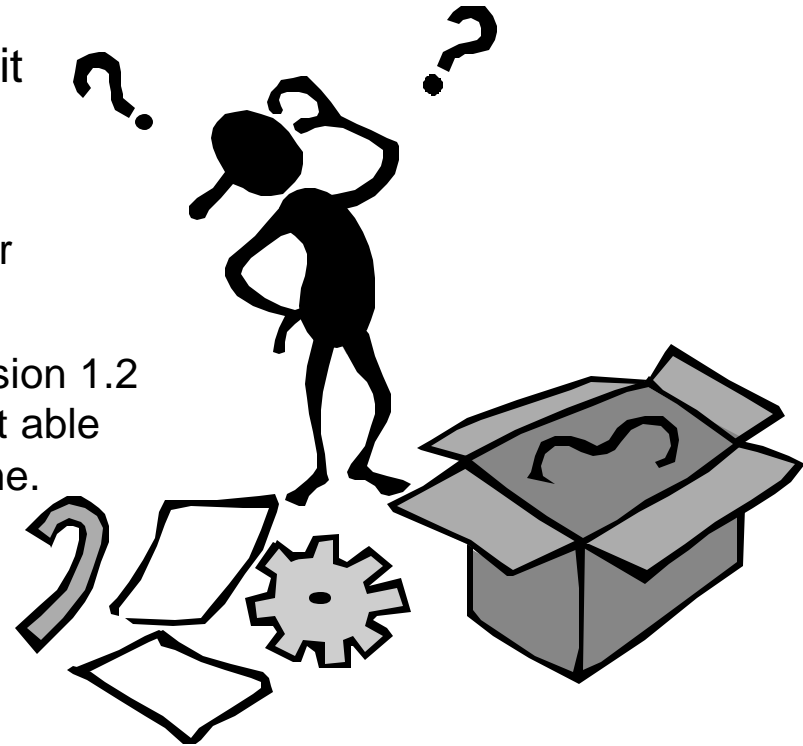
3. Be Adaptable
## (DI Host to DI Client Migration)

- **Important differences between host and client formats**
  - DB2 tables EDIPSDI and EDITPCM reside in both RunTime and CustTime databases

- **Important to note that once converted to the Client, a transaction must be maintained on the Client**

- **Naming convention changes for DataInterchange Client 3.1**

- **Not an independent browser-based tool**
  - need DI Client 3.1 installed on PC or laptop
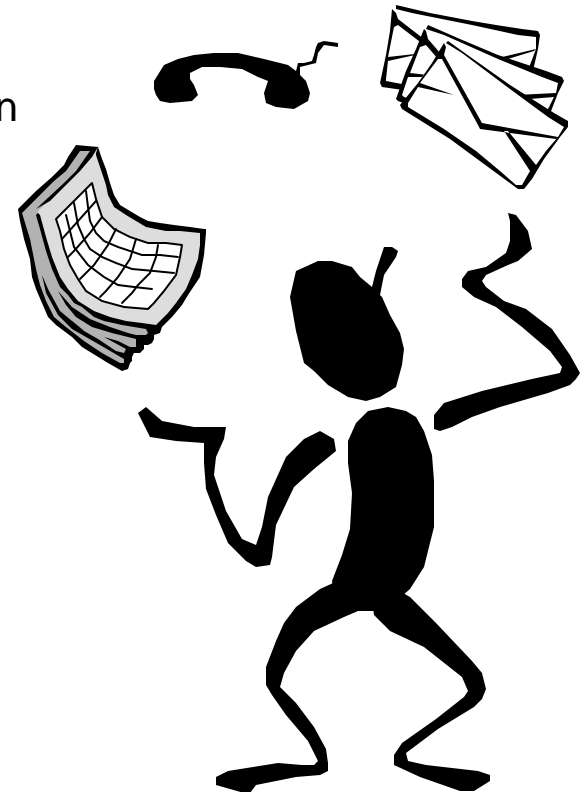
RUNTIME vs. CUSTTIME databases

Do we create the CUSTTIME client format database in a separate database from the RUNTIME database on the host?

– concerned with migration to DI 4.1 and single database structure

– Actually, only logical groups of tables

– kept in one database but used separate high level qualifiers.

Soaring into the Future – WebSphere Data Interchange
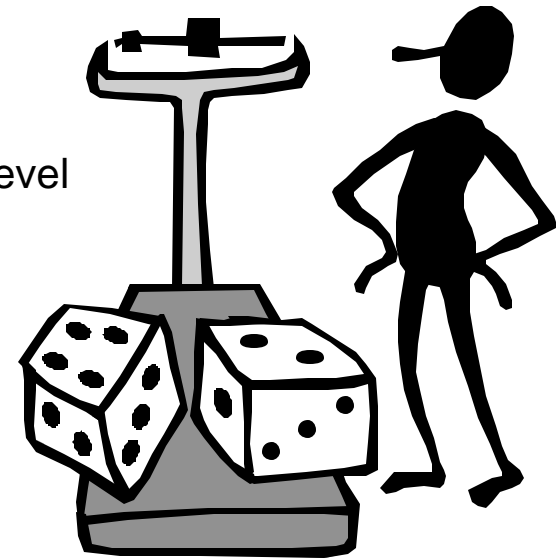
DB2 Connect Login

- **DataInterchange Client login requires two entries of TSO id and password due to the two databases being connected to**
  - RUNTIME as MVS host database
  - CUSTTIME as client format database

- **Resist the temptation to hard-code the TSO id and password into the ODBC Source**

Soaring into the Future – WebSphere Data Interchange

4. Assess The Risk and Be Proactive (DI Client Deployment)

- Dual login using DI Client 3.1

- Cleans the "cache"

- TSO passwords updated or changed on the mainframe are properly reflected within the ODBC Source

- Created two complete DataInterchange Client 3.1 subsystems within our lab environments for testing of PTF's and regular RSU maintenance.
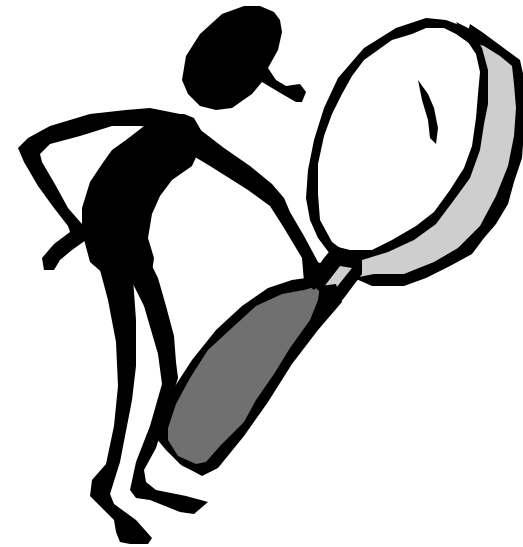
Conversion Issues

- Provided end-users with

  - DI Client 3.1 environment

  - Training

  - Ability to convert existing Maps, as needed.

- Once converted, must be updated and maintained in DI Client

Soaring into the Future – WebSphere Data Interchange

5. Enjoy The Ride
(Future Direction)

- **Where we are going**
  - z/OS Server Pack 1.4 include WebSphere Data Interchange V3.2
  - In house and being installed in one of the lab environments

- **New Challenges**
  - XML Transformation using WDI 3.2

Summary

- Know your environment

- Be prepared and have a plan!

- Be adaptable

- Asses the risk and be proactive

- Enjoy the ride...

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Don't Let This Happen To You
- DI Client 3.1 Migration Tips

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