# ITU SEMINAR (SLOVAKIA)



# EDI
## International Settlements
## Presentation by
## *Eddy Patient*

September 2001
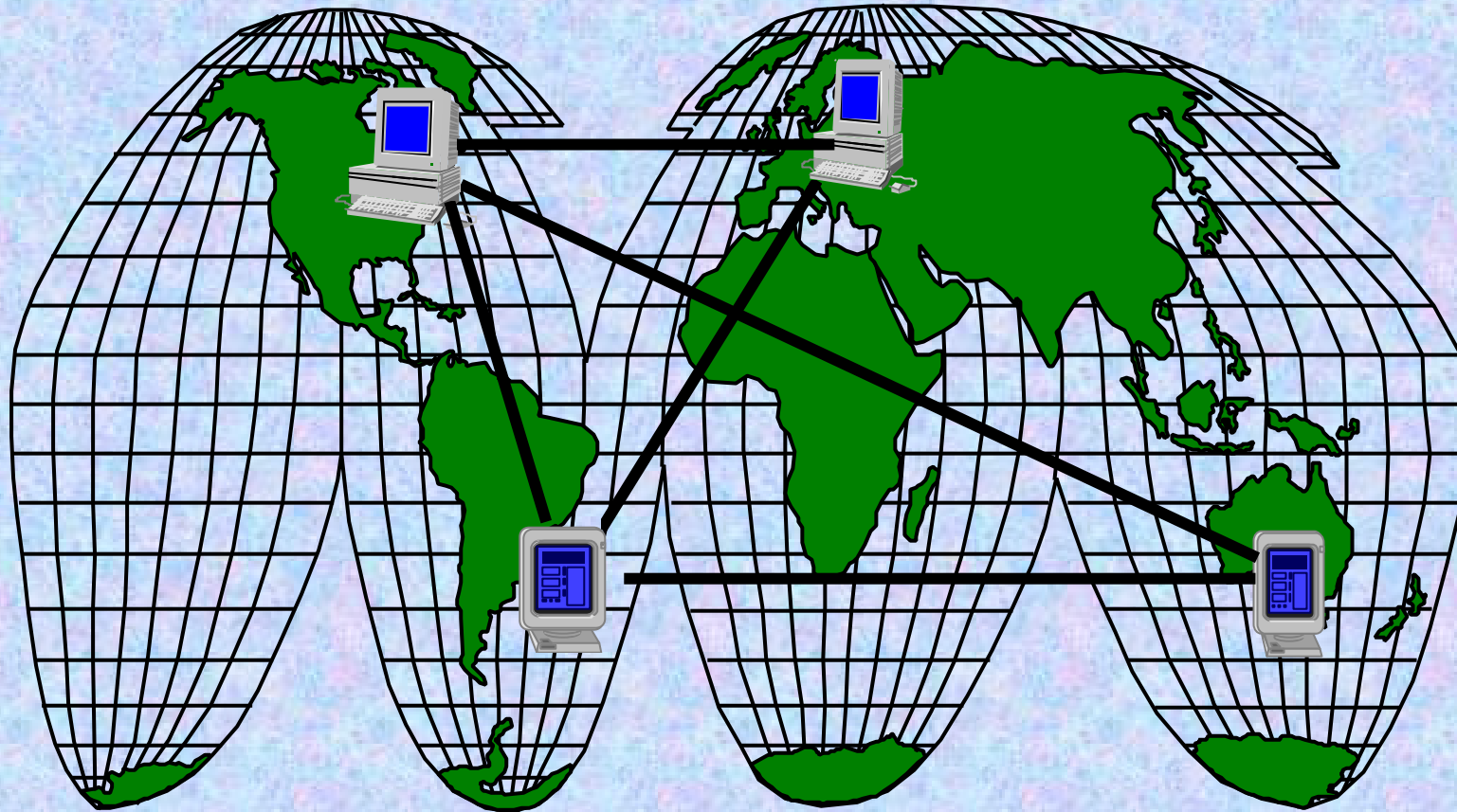
# Contents

- *EDI & ETIS - Defined*

- *Facts about the ETIS/EDI International Settlements Group*

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- *EDI - Defined & how it works*

- *EDI Global Members*

# EDI

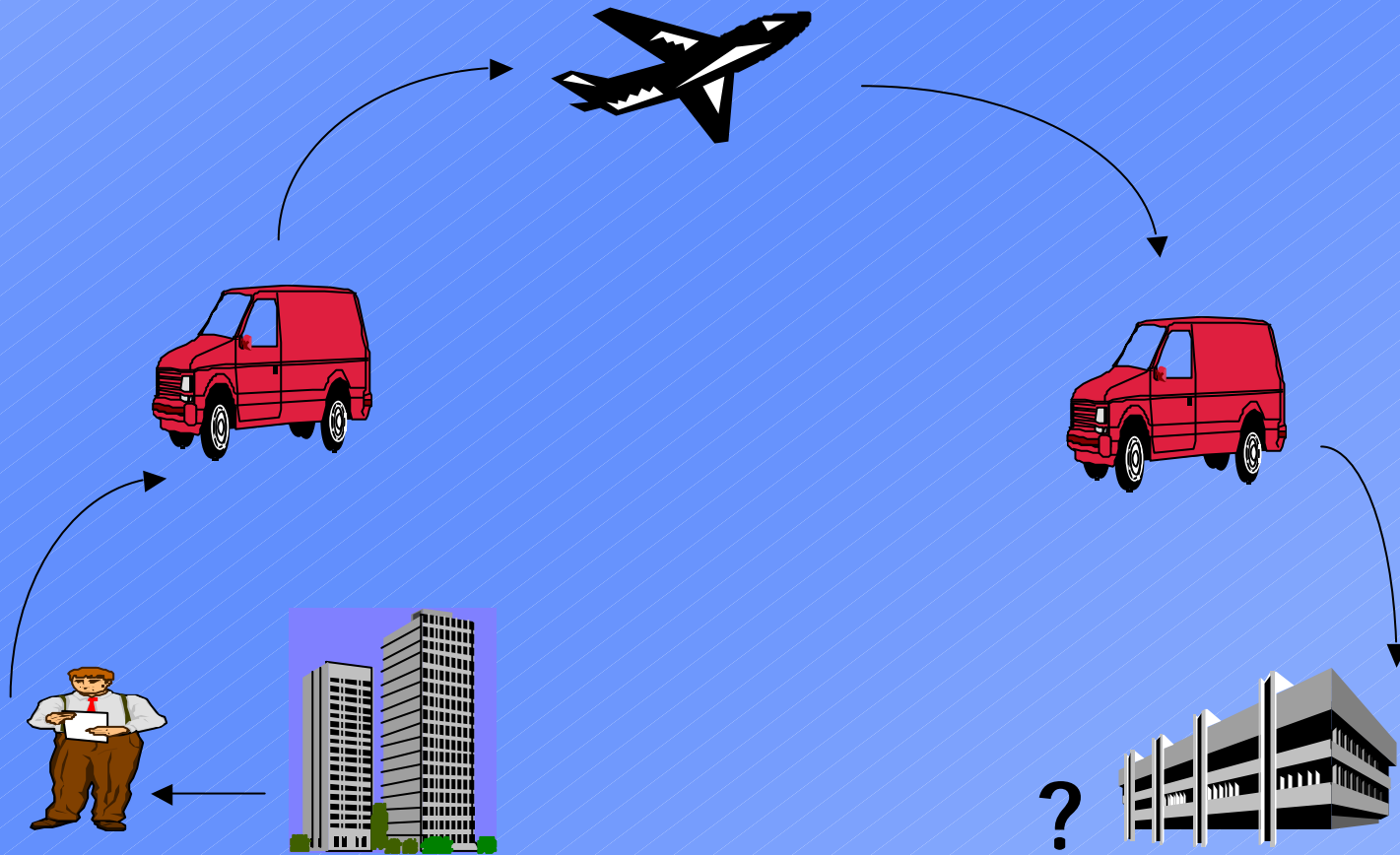## Electronic Data Interchange

# DATA EXCHANGE TODAY

# Why EDI ?
# *Business* BENEFITS

◆Demand from industry for E-Commerce

◆Speed of transaction

◆Accuracy of data

◆Ease of processing

◆Cost reduction on many levels

◆Security

# ETIS

ETIS *e- and telecommunications information services* is the platform for the interchange of information, experiences and professional networking at the heart of the Telecommunications industry.

It is an industry led group, which brings together telecommunications operators, suppliers and content providers on key information and communication technology issues and facilitates co-operation among them.

# Facts about ETIS

- ETIS is a global organization and has its origins in Europe

- It's members consist of Telecom Operators

- ETIS is a non-profit making organization and relies on membership fees to cover costs

- In addition to many other activities ETIS has several working groups which focus on specific topics

- The International Settlements EDI forum is one such group

- ETIS facilitates, supports, coordinate and provides the neutral presence for this group

# Facts about EDI Group

- Members must be International Operators who are licensed to carry international traffic and enter into international agreements

- EDI group is a non-profit making group

- Relies on membership funding, members input and voluntary contribution from Operators

- EDI Group is considered a non-competitive group due to the nature of the topic and its objective

- Members are allowed to vote and influence decisions

- EDI member Carriers are 40+ ; Approx. 20 - 25 can exchange today

# EDI GROUP OBJECTIVE

To develop, define, test and implement EDI global links, standards & protocol for inter-operator exchange of traffic accounting data .

*according to*

## ITU D190 Recommendation

(1995)

# Who should attend ?

- International Settlements representatives

- IT / Systems Development          90%

# Who has attended ?

- Managers, Directors from International Settlements

- Systems Developers/Analysts/Programmers from IT

- Sales / Product / Operations Support

- Network

# ETIS/EDI INTERNATIONAL SETTLEMENTS

Membership is 3500 EURO per financial year ($2.9k, 5.3k CHF, 2.4k SDR) for each Operator.

- Membership fund helps to cover :

    - 2 Main / 4 Council Meetings (preparatory work, organization…)

    - Maintenance of Code Tables & Documentation (incl. File Format)

    - Development & Maintenance (web site)

    - Administration (ETIS Central Office)

    - promotions / presentations

    - Education workshops & assistance

# EDI COUNCIL

◆ **EDI COUNCIL ARE CONCERT, TELENOR , TELSTRA,**

◆ **EXTENDED COUNCIL MEMBERS ARE EMBRATEL**

◆ **ETIS DIRECTOR OF PROJECTS & TECHNOLOGY**

◆ **COUNCIL MEMBERS ARE VOLUNTEERS**

◆ **FOUR MEETINGS PER YEAR**
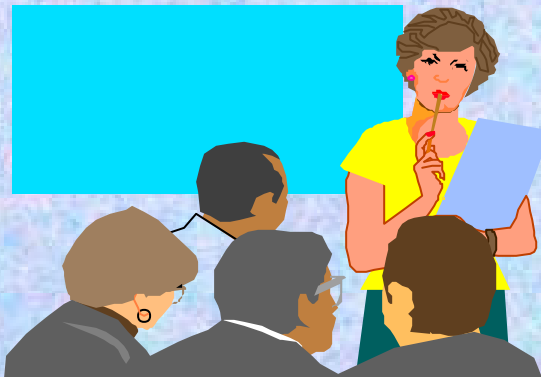
◆ **PERFORMS & REVIEWS DETAIL WORK FOR EDI IS GROUP**

◆ **PREPARES ALL MEETINGS, WORKSHOPS**

◆ **PROPOSES STANDARDS, POLICIES & RECOMMENDS**

◆ **PROMOTES EDI GROUP**

# EDI STANDARDS - ITU & ETIS RECOMMEND TWO FORMATS

**EDIFACT** - VERSION DEVELOPED BY BT USING

'UN' APPROVED GENERIC STANDARD & SYNTAX

**FLATFILE** - DEVELOPED & UPDATED BY EDI
GROUP

BOTH STANDARDS ARE ITU AND ETIS APPROVED

(Recommendation D190 - 1995)

# *CODE FORMAT & CONVENTION*

## 4 Code Tables

◆ **Carrier Code (International licensed Carrier)**

◆ **Service Type (telephone, Telex, IP)**

◆ **Traffic Type (IDD, Home Direct, Collect)**

◆ **Currency (USD, GF, SDR, EURO)**

# *CODE FORMAT & CONVENTION*

- **Carrier Code = 5 CHARACTERS**

**AAA**

**99**

UNIQUE 3 ALPHA
COUNTRY CODE

UNIQUE 2 DIGIT CODE

IDENTIFYING CARRIER

INTERNATIONAL
ISO STANDARD

**AAA99**
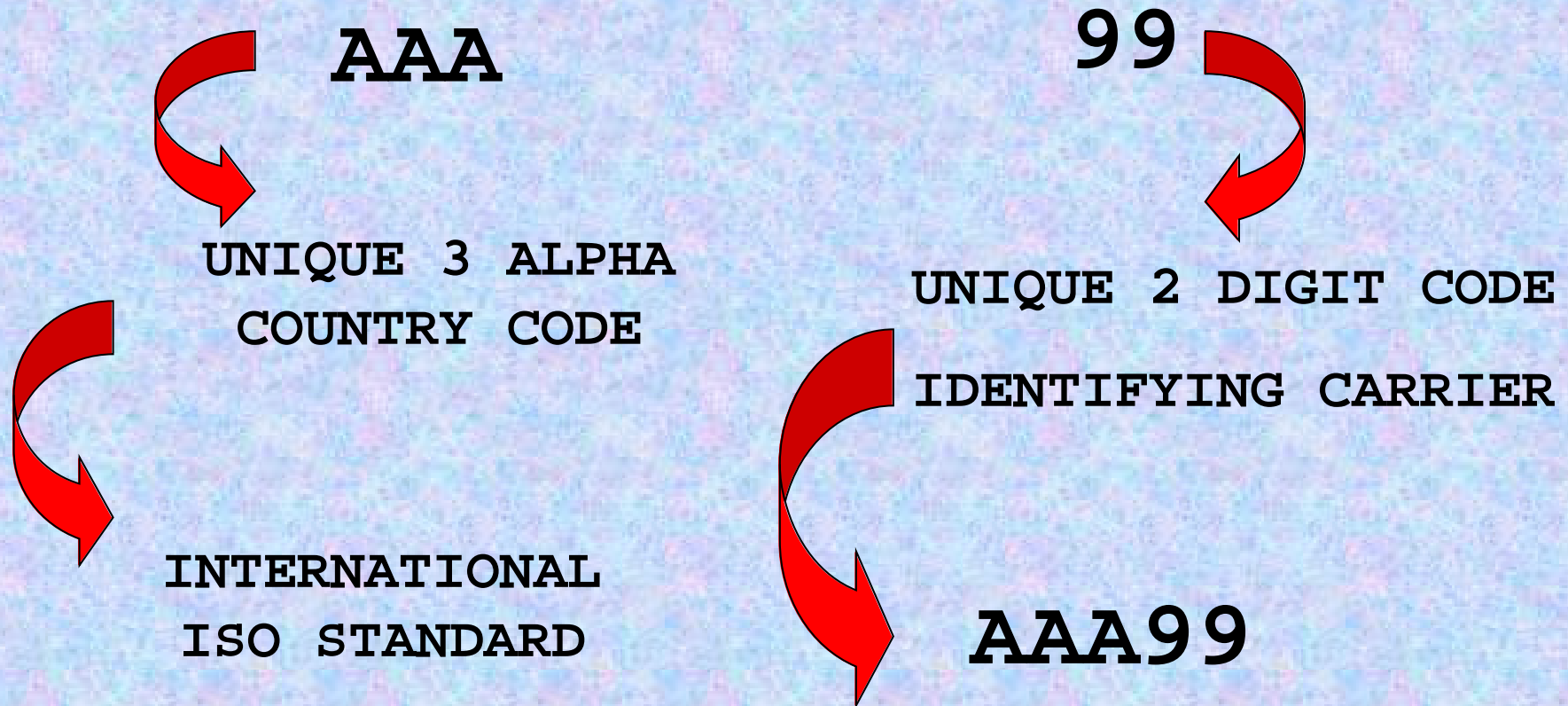
# *CODE FORMAT & CONVENTION*

- **Service Type Code = 2 CHARACTERS**

**UNIQUE ALPHA CODE**

**2 Position**

**Examples**

**TP = Telephone**

**TX = Telex**

# CODE FORMAT & CONVENTION

- **Traffic Type Code = 4 CHARACTERS**

  **UNIQUE ALPHA/SYMBOL CODE**

|  e.g. XX_X                    | Examples                           |
|-------------------------------|------------------------------------|
| 1st - Basic Traffic           | IDD                                |
| 2nd - Connection Procedure    | Automatic/Operator                 |
| 3rd - Remuneration Factor     | Billing Method (e.g.credit card)   |
| 4th - Time Classification     | e.g standard, peak                 |

# CODE FORMAT & CONVENTION

- **Currency Code = 3 CHARACTERS**

  **UNIQUE 3 POSITION ALPHA CODES**

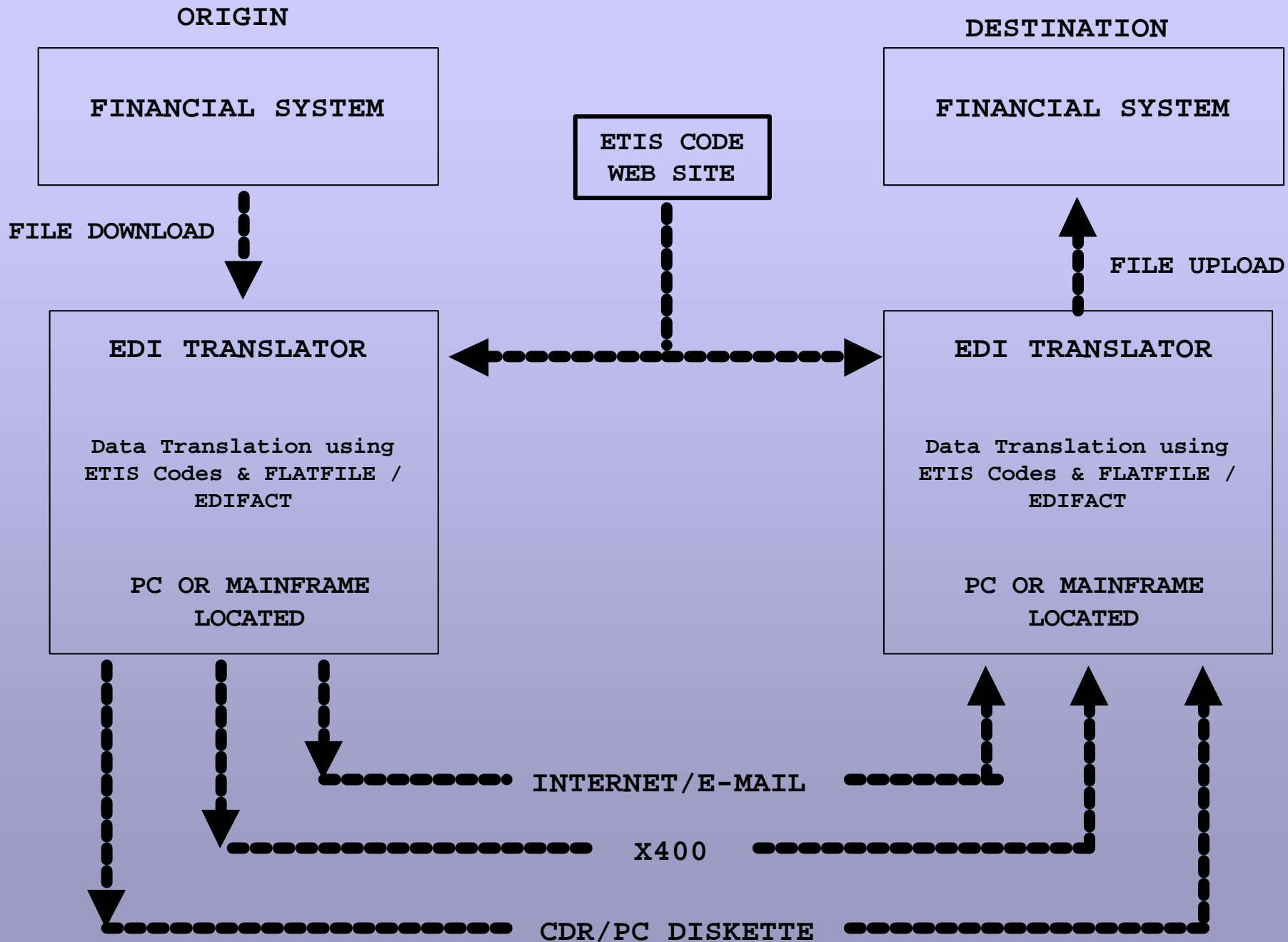|  | Examples |
|---|---|
| 1st - USD | US DOLLAR |
| 2nd - GF | GOLD FRANC |
| 3rd - SDR | SPECIAL DRAWING RIGHTS |
| 4th - EURO | EURO |

# FILE FLOW PROCESS

ORIGIN

DESTINATION

```
FINANCIAL SYSTEM                              FINANCIAL SYSTEM
```

ETIS CODE
WEB SITE

FILE DOWNLOAD

FILE UPLOAD

```
EDI TRANSLATOR                                EDI TRANSLATOR


Data Translation using                       Data Translation using
ETIS Codes & FLATFILE /                       ETIS Codes & FLATFILE /
EDIFACT                                       EDIFACT


PC OR MAINFRAME                               PC OR MAINFRAME
LOCATED                                       LOCATED
```

INTERNET/E-MAIL

X400

CDR/PC DISKETTE

# Why is there a need for an EDI Group ?

Since the original recommendation the Market has progressed

- to be more volatile

- agreements have changed - more complex & unique

- Operators have more than doubled

- International Settlements activity has expanded to meet these demands

- Effect on the data exchange is high

- The EDI format must be adapted to meet the demands of the competitive market & needs of the Settlements community

# History of EDI Group

- 1992 - Potential of EDI discussed by Business & IT (system developers)

- 1992 - Group of European Carriers working within an ETIS EDI working Party to develop standards & protocol

- 1995 - ITU D190 Recommendation approved

- 1997 - EDI Code Review Panel formed to specifically focus on the revision of the code tables

- 1998 - Revised list of Codes released to members

- 1998 - EDI Council formed to become responsible for all the group deliverables

# History of EDI Group
## CONT'D

- 1998 - New version of Flatfile released by EDI Group

- 1999 - EDI Code Tables web site launched to members

- 1999 - Proposal to update existing D190 Recommendation

    approved

- 2000 -  EDI Group agree  to develop Translator for members

- 2001 - Number of Global Carriers reach 50 for EDI Group

| Europe & M/East | Americas | Africa | Asia-Pac |
|---|---|---|---|
| **Israel - Bezeq** | **Concert** | **Telkom South Africa** | **Singapore Telecom** |
| **France Telecom** | **USA - SPRINT** | **Mauritius** | **Starhub Singapore** |
| **Telenor - Norway** | **Mexico Telmex** | | **Celcom Malaysia** |
| **Tele Denmark** | **Colombia Orbitel** | | **VSNL India** |
| **Telekom Austria** | **Embratel - Brazil** | | **Hong Kong Telecom** |
| **P&T Luxembourg** | **Ecuador** | | **China Telecom** |
| **Matav - Hungary** | **Argentina North** | | **Telstra - Australia** |
| **Telefonica - Spain** | **Argentina South** | | **C&W Optus - Australia** |
| **Telecom Italia** | **Urugruay** | | **Telecom New Zealand** |
| **Marconi - Portugal** | **West Indies Ltd** | | **PLDT** |
| **Deutsche Telekom** | | | **Japan Telecom** |
| **Eircom - Ireland** | | | **Sri Lanka** |
| **Telia - Sweden** | | | |
| **Sonera - Finland** | | | |
| **Slovenia Telecom** | | | |
| **Swisscom** | | | |
| **Slovakia** | | | |

## EDI Global Members

## West Indies Ltd (C&W)

Barbados

St Vincent

St Lucia

Cayman Islands

Bermuda

Dominica

British Virgin Islands

St Kitts

Anguilla

Montserrat

Grenada

St Helena

Falkland Islands

Ascension Islands

Turks and Caicos

**EDI Global
Members**