

PRIME FACTORS, INC.

your key to data security



Psypher™ EDIFACT

Dependable Security for EDIFACT Transaction Files

When there is a requirement to protect PAYORD payments or any other ISO 9735 EDIFACT business transaction, PsypherEDIFACT can complement any translator product by adding necessary security functions. PsypherEDIFACT consists of two main components: an interactive menu-driven utility to manage a trading partner database of encrypted keys and security options, and a batch component to automatically secure transaction files on a regularly scheduled basis. PsypherEDIFACT provides a number of useful features:

Data Encryption

Confidentiality is ensured using strong encryption algorithms (56-bit DES, 112-bit Triple DES, and 168-bit Triple DES) as specified in the EDIFACT v4 standard.

Message Authentication

PsypherEDIFACT verifies the origins of transmitted files and their integrity using AUTACK (version 3 or 4).

Data Compression

PsypherEDIFACT reduces transmission time and expense by compressing data using the popular X9.32 compression algorithm (also known as LZW compression).

Text/Data Control

Communication through multiple Value Added Networks (VANs) can be simplified using text-filtering techniques to avoid sending binary data.

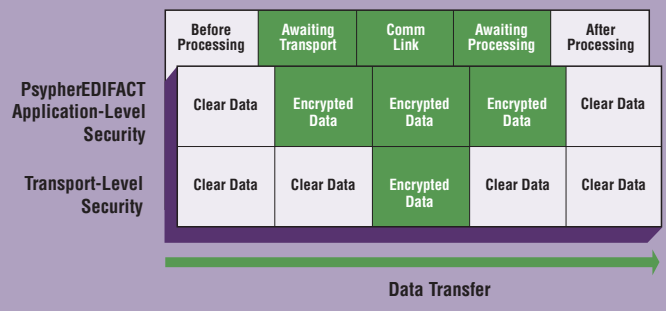
Ensure Data Security with PsypherEDIFACT

Embedded security includes encrypted segments of data groups and transaction sets within a transaction file. This file has a clear header and footer for routing.



Application vs. Transport Level Security

Application level security is a better solution because it protects data at every stage, instead of only during the communications link.



Tools Designed for the Real World

Key Management and all other processing occurs on the same platform in order to simplify control of your computing environment. Robust password protection of administrative functions, role-based user definitions, and key entry by components increase flexibility without compromising security.

The software includes many ease-of-use features such as the export/import of trading partner definitions, a complete audit log, optional trace facility, key check values, and built-in test keys.

PsypherEDIFACT also provides interoperability with other vendors' security products that support the EDIFACT v4 security standard.

Cross Platform Support

Like all Prime Factors products, PsypherEDIFACT provides for backward compatibility with previous versions of the product and is available for mainframes, AS/400s, HP9000s, Suns, RS/6000s, and PCs running Windows or Linux. To arrange a 30-day trial at no charge, visit our web site at www.primefactors.com.

The Psypher Security Suite

PsypherEDIFACT is part of the Psypher Security Suite, which also contains advanced support for other data security needs:

Psypher[™]X12

Supports the internal X12.58 security structures that protect X12-formatted business transaction files.

Psypher[™]EDI

Provides a proprietary security envelope for transaction files of any format, including X12 and EDIFACT.

Psypher[™]OPS

Supports file transfers using the OpenPGP formats defined in RFC1991 and RFC2440.

General Security Options

General security options can be set for each trading partner.

```
----- PsypherEDIFACT Encryption/Filtering Options -----
Command ==>

Company/Dept Name .....: Big Bank
Partner Name .....: Intl Oil Co

The following options apply to all appropriate group specifications
where encryption is specified:

Encryption Method ==> D ( D -DES, T -TRIPLE DES, 3- TRIPLE DES 3)
Encryption Mode ==> CBC ( CBC -Cipher Block Chaining)
(CFBB -Cipher Feed Back 8 bit)

The following options apply to all appropriate group specifications
where encryption or compression is specified:

Filtering =====> N ( A -Ascii, H -Hex, B -BASE64, N -None)
Compression =====> N ( L -LZW, N -No)

Press ENTER to Save Options for all appropriate groups.
Enter END Command to Cancel Changes and Return to Previous Display.
```

Communication Options

Communication options can be set for each trading partner.

```
----- PsypherEDIFACT Communications -----
Command ==>

Company/Dept Name .....: Big Bank
Partner Name .....: Intl Oil Co

You may need to set the following if your partner has an ASCII machine.

Character Set Translation ==> N ( N -None, P -Prior, C -Com Translate)
Translation Table Name =====> DEF ( DEF -Default)
Authentication Character Set=> E ( A -ASCII, E -EBDIC)

Press ENTER to Save Changes and Return to Previous Display
Enter END Command to Cancel Changes and Return to Previous Display
```

Audit Log

The audit log shows all security-related activity, not just the errors.

```
----- PsypherEDIFACT - Audit Log ----- Row 225 of 242
Command ==>

Press ENTER to Return or Enter COPY (F11) Command to Copy Display to a File.

2002/06/14 03:04:37 INTLOIL
2002/06/14 03:07:34 INF409 (MARY) Party Relationship Added/Changed for:
2002/06/14 03:07:34 INTLOIL
2002/06/14 03:08:41 INF409 (MARY) Party Relationship Added/Changed for:
2002/06/14 03:08:41 INTLOIL
2002/06/14 03:20:30 ERR157 (MARY) Interchange message is missing UNZ tag, the
2002/06/14 03:20:30 message has probably been truncated.
2002/06/14 03:20:30 ERR152 (MARY) Transaction in Error: Date: 03/27/2000,
2002/06/14 03:20:30 Time: 11:34, UNB Ctrl# 25
2002/06/14 03:20:30 ERR154 (MARY) No interchanges processed, all interchanges
2002/06/14 03:20:30 were copied to the reject file.
2002/06/14 03:20:31 INF148 (MARY) SENDEDI function failed: 03
2002/06/14 03:23:30 INF419 (MARY) ID: ORDERS, Secured, UNB Ctrl# 25, MSG Ctrl#
2002/06/14 03:23:30 0001, Digital Sign: BANKSIGNATURE(A657B6), Enc:
2002/06/14 03:23:30 session(04A374), KeyMap: INTLOIL(6B0046)
2002/06/14 03:23:30 INF401 (MARY) Data secured OK. Partner: INTLOIL,
2002/06/14 03:23:30 Transaction: Date: 03/27/2000, Time: 11:34, UNB
2002/06/14 03:23:30 Ctrl# 25
```

Download
Psypher[™]EDIFACT

for a **30 day**
free
trial.



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