

MODULE: *ZIP - Transfer, Archiving, Saving

Data compression is applied to save space or to optimize transfer rates. The ZIP format is the leading standard for compression without any data loss. In addition, the compression format makes data management a lot easier - whether referring to transferring, archiving or saving data.

i-effect *ZIP is a native iSeries compression software on IBM System i5 (iSeries, AS/400), which can compress data down to 10% of its original size, saving up to 90% disk space. i-effect *ZIP supports file sizes up to 4 GB and is therefore most eligible for hard disk backups. i-effect *ZIP comes along with all the specialities of iSeries: It compresses and decompresses spool files, save files and physical files. i-effect covers all CCSID and can translate between ASCII and EBCDIC.

The compression technology of **i-effect *ZIP** is compatible to WINZIP™, ZIP390 and GZIP V1.2.4, which are available on different platforms (WINDOWS, DOS, UNIX, VMS, etc.). That way, the ZIP files can be distributed cross-platform. Including functions for creating, adding, deleting, extracting and displaying zip archives, i-effect *DBEXPORT is 100% compatible to other archive software and is therefore the ideal support for exchanging data with other systems and platforms.

ZIP can be opened by any recipient

With **i-effect *ZIP** you can generate self-extracting archives in .exe format, thus the user does not need an own compression software to open the file.

Unzipping functions are included in i-effect at no charge, meaning i-effect can be installed at the recipient to extract received zip-archives without needing a license key. This way, iSeries spoolfiles and save files can be transferred to foreign or new systems without any problems. The data can be saved, re-built or spread space-saving over several systems.

Compression in automatised workflow

You want to archive your outgoing invoices on your iSeries electronically? Let i-effect module ***SERVER** monitor the output queue of the calculation process.

All functions can be processed menu-controlled or completely automatically controlled with the module ***SERVER**: It makes the spool converter i-effect ***SPOOL** converting each spool entry regarding certain, definable attributes into PDF format. After having sent the PDF files with ***EMAIL** or ***FAX** to your clients, you take advantage of *ZIP to compress the PDF files you have generated and to write them in a ZIP archive. In combination with i-effect module ***CRYPT**, you can encrypt your ZIP archives using the AES standard and protect them against unauthorized access.

FEATURES

- create ZIP and GZIP files natively on OS/400 and i5/OS
- compress spooled files, IFS and physical DB/2 files (PF-DTA, PF-SRC) and save files in ZIP format
- cross platform interoperability
- For administering ZIP archives, it is possible to choose the input file system as well as the output file system for the output flexibly. This way it becomes feasible to compress and decompress directly between DB/2 and IFS.
- Depending on the destination system, where a file to be compressed will be used, the translation of the uncompressed data can be chosen between different CCSID, this means between ASCII and EBCDIC.
- create self extracting files
- encryption of zip files through AES
- files up to 4GB (in compressed status)
- decompression with each WinZip compatible software
- licence-free decompression function

MODULE: *CRYPT - End-to-End Security for your B2B

Data protection, back up and security - these keywords are standing for safeguarding a company. Therefore, B2B companies are focused on secure electronic business transactions interchange. Damage caused by data loss or abuse and inadequate security measures at the same time can cause most momentous costs. A lot of companies still detain from investing into effective and trustworthy security concepts. Shortage of resources and worries about administrative operating expenses are wide-spread barriers. The data integration solution i-effect serves for dismantling these barriers:

The module *CRYPT of i-effect proves itself an elegant solution integrated into your workflow to sign and to encrypt sensitive iSeries business data directly on IBM System i (AS400, iSeries, i5) for local storage and external distribution.

Digital signature for PDF files and e-mail

- Do you get important files containing passwords or account data?
- Do you publish documents in the internet? For example contracts or security information?
- Would you like to detain third people modifying saved files?
- Are your communication partners complaining about e-mails never coming in?

With **i-effect** you can sign and verify PDF documents. The signing function is integrated in the module i-effect *CRYPT. For conversion of your iSeries business data the i-effect spool converter with the modules *SPOOL and *SPOOL+ is at your disposal.

For giving your e-mail communication partners the necessary sense of security you can sign all outgoing e-mails. The outgoing e-mails of your company are explicitly identifiable, the content is resting unaffectedly, and any misuse of sender addresses can be avoided. Before opening the email, the receiver can check if the sender address is trustworthy. Therefore the modules i-effect *CRYPT and *EMAIL are standing at your disposal.

The German guideline for electronic signature referring value added tax law surpasses the general European guideline. Most important use case is operating mass signature processes for issuing invoices. Therefore documents must be tagged with the so-called qualified electronic signature by using special chipcards. i-effect fulfills this requirement by combining the modules ***CRYPT** and ***SIGG**.

Encryption by AES

i-effect *CRYPT encrypts ZIP archives according to AES (Advanced Encryption Standard) combined with the compression module *ZIP. Encrypted data can be deciphered and edited cross-platform anytime with every AES compatible application.

At the end of the nineties reasonable doubts on safety of DES (Data Encryption Standard) were being confirmed in a test deciphering. This has been the beginning of the triumphal processing of AES (also the so called Rijndael algorithm) becoming the leading crypto-system.

AES is a block cipher which dispose of a variable block size valued 128, 192 or 256 bit and a variable length of key valued 128, 192 or 256 bit. This means in decimals:

3.4 x 10³⁸ possible 128 bit key

6.2 x 10⁵⁷ possible 192 bit key

1.1 x 10⁷⁷ possible 256 bit key

Assuming that a machine recovered a DES key in a second (i.e., try 7.2 x 10¹⁶ keys per second), then the machine would take approximately 149 thousand billion years to crack a 128 bit AES key. No wonder that in the United States AES is accredited for governmental documents with strictest degree of secrecy.

FEATURES

digital signature and verifying signature

- PDF documents
- any files
- e-mail communication (SMIME)
- AS2 communication
- multiple signature for PDF documents
- viewable and covered signature for PDF documents
- automatic scaling of signature size
- signature algorithm: RSA (Hash SHA-1, MD5)
- PKCS#7 signature for PDF documents
- certification format: X.509 v3, DER and PEM coded

qualified electronic signature (*SIGG)

- PDF documents
- files p7m (PKCS#7 S/MIME multipart-signed), p7s (PKCS#7 signed data).

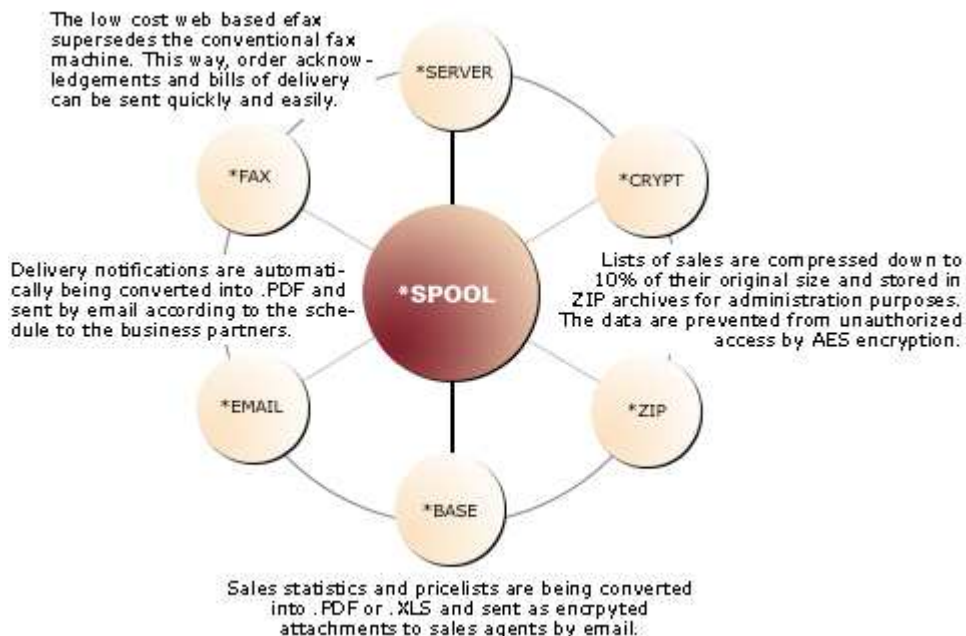
encryption and decryption

- files (symmetrical by AES, asymmetrical by 3DES)
- AES (256 bit), 168 bit Triple-DES, RSA (512-2048 bit)
- e-mail communication (content + transport [SSL])
- AS2 communication (content + transport [SSL])
- cross-platform

MODULE: *SPOOL - Conversion with Multi-Format Support

Spool file conversion is an essential part of data integration on IBM System i5 (iSeries, AS/400). While archived files on other systems usually can be processed trouble-free, iSeries spooled files are available in a proprietary data stream format. Originally developed for print on IBM printers, spooled files are also being converted into PC output formats to integrate iSeries data into business workflow and electronic document management. i-effect's unique selling point is its supporting of all IBM System i5 data streams (SCS, AFPDS, IPDS, AFPDSLINE, PCL).

By combining the modules ***SPOOL** and ***SPOOL+**, you can tailor your spooled report data perfectly to your workflow processes. The i-effect spool converter supports all established output formats like PDF, XLS, CSV, HTML, HTXT, TIFF, GIF, RTF, TXT and SAV. i-effect converts into real PDF (no PDF image) for all office needs. The associated menu-guided spool administration and wide range of formatting features, i.e. embedding fonts, barcodes and graphics, provide an easy to use solution.



Spool archiving and distribution

Take the advantage of spool conversion and benefit from enormous cost-savings for the operative IT referring your company specific office workflow and cross-platform data exchange.

In combination with the communication modules (***FAX**, ***EMAIL**, ***FTP**, ***OFTP**, ***TELEBOX**, ***AS2**) i-effect ***SPOOL** allow you to distribute your (converted) spoolfiles via all common channels. Through compression of spoolfiles with ***ZIP** you can store your spooled files as ZIP archives on other machines, too. All these functions can be processed menu-controlled or completely automatically controlled with the module ***SERVER**.

FEATURES *SPOOL

- conversion of iSeries printer data streams SCS, AFPDS, IPDS
- conversion into PDF, XLS, CSV, HTML, HTXT, TIFF, GIF, RTF, TXT, SAV
- conversion into real PDF (no PDF image)
- splitting of spooled files
- embedding of font, graphic, barcode, bookmarks
- page rotation, arrangement of colour and font
- integration of up to 100 exit programs

FEATURES *SPOOL+

- conversion of iSeries printer data streams PCL, AFPDSLINE
- splitting of spooled files, processed by workflow events
- merging of PDF documents, also from different external systems

MODULE: *DBEXPORT - Direct DB2 Data Export into Excel

Management and specialist departments require up-to-date and consistent data to make trend-setting decisions. Most reliable business data is provided by the data base itself. On the one hand queries should provide homogeneous information in standardised format and regular time intervals. On the other hand, the processing of data base queries must be possible for different departments at any time on short notice. Mostly, inhouse data base specialists are in charge of data provision but because of lack of time they cannot process it as flexible as favoured by the specialist departments.

i-effect ***DBEXPORT** is a native iSeries application for direct DB2 data export into spreadsheet formats (XLS, CSV, HTML and TXT) on IBM System i5 (iSeries, AS/400). It offers your associates any report at any time and for every defined event - per push technology straightforward into their inboxes. The PC output files consist of the full range of formatting and functional features.

Conventional software converts DB2 files into spooled files before passing them on to the outqueue for further format conversion or for printing. Due to the flat text format of the spoolfile, the tabular structure of DB2 files is getting lost through conversion and has to be re-built afterwards in order to allow further processing. Therefore, a query license program has already to be installed on the system.

What makes i-effect ***DBEXPORT** special is the direct conversion from DB2 into Excel, CSV, HTML and TXT per push-technology. A data base query can be processed in equal measure through a defined file name, query or SQL statement. You can select every ***DBEXPORT** call from the i-effect logbook and re-process every pre-defined or saved query and SQL query statements.

Optimal added value for your reporting workflow is achieved by automation with i-effect module ***SERVER** which automates all i-effect functions. DB2 files are converted event-driven or according to a schedule and distributed to the recipient. Regular, one-time or rather time-critical exports are guaranteed even in case of sudden or longer shortfall of staff. The conversion process runs in the background (submit job) with ideal performance and velocity.

To distribute your reports to their recipients, you may combine ***DBEXPORT** with all of i-effect's communication modules: ***EMAIL**, ***FAX**, ***FTP**, ***AS2**, ***TELEBOX**, ***OFTP**.

Elimination of errors and motivation of employees

Push technology is unique selling point of ***DBEXPORT**: User will find database information on their desk as formatted reports fresh from the database. Users avoid time-wasting, error prone manual database queries and scripting. The abolition of pc-initiated imports releases members of specialists departments such as production, sales, customer relation etc. from depending on the technology department. The convenient provision of information motivates your employees towards better performance. The efficiency of topical data is not getting lost on delay of data supply.

FEATURES

- direct DB2 export into output formats .XLS, .CSV, .HTML, .TXT
- export based upon push technology, without manual user intervention
- Excel Biff 8 (compatible with Excel 97 and higher) or BIFF 5 (compatible with Excel 5 and higher)
- converted data stream files can be placed in the IFS; Seamless transfer on the iSeries system itself (storage in root or in QDLS file system), on Windows server (usage of QNTC files system) or on another iSeries (usage of QFileSvr.400 file system)

Formatting

- Time, date and currency format
- Field specification (worksheet name, titel, subject, author, keywords, category, comments, etc.)
- Inclusion and exclusion of fields
- Sorting fields
- Field delimiter
- String delimiter
- Record delimiter
- Decimal point character
- Table specifications (table caption, header, columns, rows, cell spacing, cell padding, etc.)
- Sort specifications, query selection

Input sources

- physical DB2 files (file name/library)
- logical DB2 files (file name/library)
- Query/400 queries
- Query Management (QM/400) queries
- interactive SQL query statements
- SQL query statements stored in a source file member
- no additional expenditure of time through data transfer and ODBC query statements
- call i-effect tasks from existing (batch-processing) application using iSeries commands in a CL program.

MODULE: *FTP - The Classic Point-to-Point Filetransfer

The File Transfer Protocol, FTP in short, was one of the first protocols governing the transfer of files especially of large amounts from one computer to another over TCP/IP network and the internet (RFC 959). Thus FTP, which is also used to transfer EDI messages (Electronic Data Interchange), proves itself a cost-saving and wide-spread procedure for point-to-point interchange of business data. In order to identify themselves to their partners internet server, business partner exchange their username and passwords first.

i-effect *FTP is a native iSeries FTP connector for data interchange between IBM System i5 (iSeries, AS/400) and other computer systems via TCP/IP networks. ***FTP** offers data transfer according to the EBCDIC character set (abbreviation, Extended Binary Coded Decimal Interchange Code) used on IBM platform.

FEATURES

All i-effect functions can be processed menu-controlled or completely automatically controlled with the module ***SERVER**.

- partner-steered automation of all TCP/IP-FTP data transfer requirements
- conversion from ASCII into EBCDIC
- automatic restart in case of transmission cut-off
- logbook (detailed protocol about all sessions and activities)

If high transaction volume, time-critical applications (just-in-time supply chain), conversion between different message standards or connection to a large trading partner requires the use of an EDI solution, i-effect offers a flexible basis for entrance into your individual EDI structure. Combined with EDI-converter i-effect ***EDIFACT**, i-effect ***FTP** is providing the communication component for your complete EDI solution on IBM System i5 (iSeries, AS/400). With the module ***FLATFILE**, you can convert bi-directionally your ERP inhouse-data (including SAP IDOC) into EDIFACT.

Alternatively low-sized data can be sent as email attachment to business partners with the module i-effect ***EMAIL**. ***FTP** can be combined with all the other i-effect modules for that you can convert and compress your iSeries data according to the particular workflow and to distribute them cross-platform.

MODULE: *EMAIL - Internet based EDI for Low Transaction Volume

Email communication has become a basic application in business life for many years now. Email serves communication as well as the storing of information and the documentation of business workflow.

Particularly for B2B of small- and medium-sized business, e-mail is an important medium for external data exchange, i.e. e-procurement, e-sales, customer service or online-marketing. E-mail requests, newsletter mailings and electronical proposals have become standard processes. Referring to a survey about e-mail communication set up by the "Institut für e-Management e.V. Köln" in 2005, 73% of the interviewed companies regularly or frequently take advantage of sending e-mail to communicate well directed with several addressee at the same time.

i-effect *EMAIL is a native iSeries application for sending and receiving emails on IBM System i5 (iSeries, AS/400). i-effect sends and receives all iSeries objects such as spooled files, ZIP archives, IFS and DB/2 files as well as the dispatch of MIME attachments to a user-defined number of (copy) recipients. In combination with spool converter i-effect *SPOOL, you can convert spool files into PDF and all established PC- and graphic formats. Afterwards, you may send them per email to external business partners or internal to single departments via any SMTP or POP3 mailserver.

Programm objects of i5 (iSeries, AS400) can be sent to external IBM System i5 as attached save files. They are easily recovered on the recipient's system.

Security and archiving

In combination with i-effect modules *ZIP and *CRYPT, you can compress and encrypt your data according to AES-standard and store them space-savily after being transferred by e-mail. Corresponding to the obligation of storing certain business correspondence, you can see and recall every incoming or outgoing e-mail in the directory. "After all, the worth of stored information in large companies is estimated to several hundred thousand Euro", referring to a study of the market research institute Dynamic Markets which was set up by order of Symantec in 2005.

Automation for enhanced e-mail organization

All i-effect functions can be processed menu-controlled or completely automatically controlled with the module *SERVER. All processes can be integrated in your existing workflow. You may run your e-mail processes event-driven or according to a schedule. Regular and time-critical dispatching tasks are guaranteed, even if a sudden or longer shortage of staff occurs.

FEATURES

- native Native i5/OS und OS/400 (IBM System i5, iSeries, AS/400)
- sending and receiving email via any SMTP Mail Server and POP3 Mail Server
- support of all iSeries files (spooled files, ZIP archive files, IFS and DB/2 files)
- any number of recipients, copy-recipients and attachments
- support of MIME encoded attachments
- automatic decryption of files attachments and texts and saving in IFS directory
- RFC1522 compatibility
- CCSID, encoding and DBCS support for international sending of emails which include special characters, DBCS characters and umlauts
- exclusion and saving of inline body text
- retrieve of any POP3 email account directly on iSeries (native POP3 client)
- logbook with selective processing of saved emails and attachments

MODULE: *FAX - E-Fax for Fax-Integration

Today fax is still a fixed part in companies which are used to communicate by hybrid forms with clients, partners and suppliers of different business sizes and with heterogeneous IT structures. But in addition to facsimiles, new channels of electronic communication were established (e-mail, EDI). As a consequence, sending faxes is mostly not connected with the electronic communication of a company. In that case, the fax becomes an isolated application for inhouse-use only which moreover is expensive in costs as well as in maintenance.

Applying **i-effect *FAX**, you may dispatch each and every print outputs of your system directly from IBM System i5 (iSeries, AS400) comfortably as e-mail using a fax gateway that is integrated in your internet (efax). Through consolidation of your communication network by internet fax (no modem, no data transmission interface, no telephone extension), you save the operating costs for facsimile devices and maintenance. Costs for separate fax lines are omitted. Particularly international fax transmission will be almost at no charge. The functionality of sending SMS is already included in i-effect *FAX.

The high performance internet provider ensures an above-average dispatch speed of your efax. Start of transmission and receipt are almost simultaneously. Our technology partner Premiere Global Services guarantees a fax volume of more than one million pages per day for Germany. If capacity is reached, it relays automatically on lines of other countries.

Simplify and accelerate your fax workflow

With **i-effect *FAX**, there is no more need to frequent a facsimile. The forwarding and storage of fax is done as fast and easily as the dispatch and storage of e-mails. In combination with i-effect ***ZIP**, you can administer sent faxes space-saving in a ZIP-archive and integrate them into your electronic document management.

With i-effect module ***SERVER**, all fax sending processes can be automated event-driven or according to a schedule, no matter if it is a regular bulk mailing or a single transmission. Regular and time-critical dispatching tasks are guaranteed, even if a sudden or longer shortage of staff occurs.

FEATURES

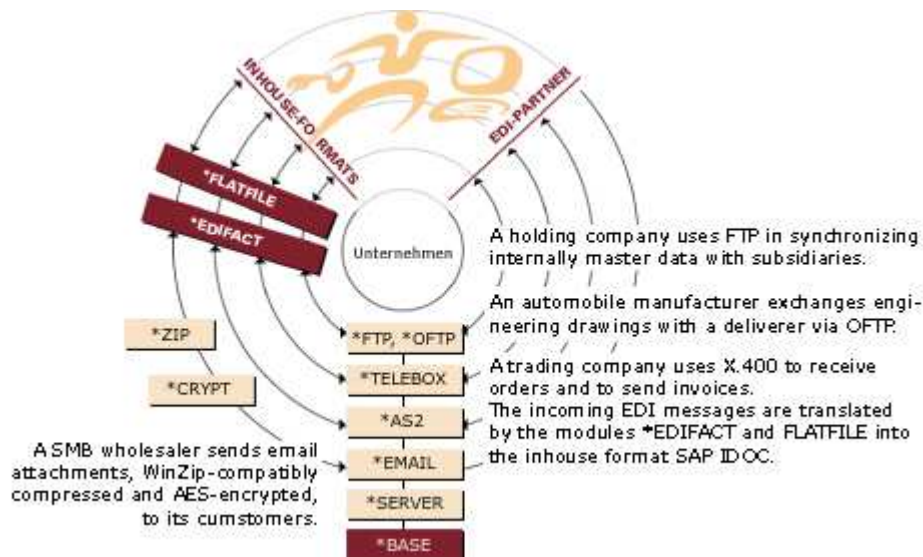
- native i5/OS und OS/400 (IBM System i5, iSeries, AS/400)
- sending fax via internet gateway (efax)
- faxing spooled files directly from program
- status messages
- logbook recording all processes and hints referring to status reports of the internet fax provider received by email
- SMS dispatch

MODULE: *EDIFACT - The Native iSeries Converter

EDI (Electronic Data Interchange) is the electronic transmission of structured data by a defined message type standard while minimizing human interference at the same time. UN/EDIFACT is the worldwide intersectoral standard for interchanging structured business documents. By generating so-called EDIFACT subsets, all optional components for answering special requests can be abstained from EDIFACT messages.

i-effect *EDIFACT is a native iSeries EDI converter which converts bidirectionally outgoing messages from the inhouse-format into a standard message type. EDI with i-effect is independent on data amount and on the number of EDI partners. *EDIFACT provides all message types and subsets. The steering by converter tables leads to an enormous flexibility.

Being a complete EDI software, i-effect meets all demands made towards EDI communication: Whether using point-to-point connection via FTP, OFTP protocol for automotive, the internet protocol AS2, or a Value Added Network such as TELEBOX, - you are free to combine your i-effect *EDIFACT converter with the module you need for your specific kind of data exchange.



All functions can be processed menu-controlled or completely automatically controlled with the module ***SERVER**.

BENEFIT

EDI on iSeries guarantees high availability and restart protection. Your i-effect EDI solution is optionally scalable and provides a maximum of data thrupt. Many companies choose to implement their EDI solution on a specific EDI server connected to the internet, but separated from their host system. Therefore, i-effect is also available as complete EDI solution in bundle with IBM System i5.

- significant cost reductions in your business process management
- benefit through increased stock turnover
- reduction of administration and handling costs
- business document exchange needs a fraction of time that you needed before
- automated creation, receipt and processing of documents saves significant time and cost
- vastly reduction of error handling and correction costs: no multiple data gathering
- strategic benefit: implementation and demounting of an EDI structure thanks to a modular, highly integrated software architecture.

Converter

i-effect *EDIFACT converts bidirectionally data from EDIFACT into DB/2 format (tables/records/fields). This conversion is processed directly by SQL interface which is the best and most rapid method of data processing on IBM iSeries.

The steering of conversion tables results in an extraordinarily high flexibility. You require an additional DB/2 field in your EDI interface table? No problem, just add it to your DDS terms or modify an existing table with ALTER TABLE. No transformation, no upload - just start further conversions with your new definitions.

Native iSeries application

i-effect *EDIFACT is a native iSeries application. Each function, including mapping, is provided as iSeries program. Conversion tables are easily created and altered with every editor or maintained by dint of the i-effect *EDIFACT tool for table administration.

Detailed logbook

Due to the extensive logging function of the i-effect *EDIFACT application, each conversion activity is recorded in an own logbook which enables you to analyse the status of an EDIFACT conversion easily at one glance.

MODULE: *FLATFILE - flexible ERP-connections

With i-effect you get a complete EDI software:

The modules *EDIFACT and *FLATFILE incl. SAP IDOC interface constitutes the conversion component as central part of EDI. The needs of EDI communication are being satisfied by the modules *OFTP, *FTP, *TELEBOX and *EMAIL. The interfaces supporting completely automatical EDI processes are set in the module *SERVER

Flat files are ASCII text files that usually means the contents of a database table saved in plain text format for conversion to another database.

FEATURES

The flexible definition of flat file directories with ***FLATFILE** allows the data elements to be migrated into other ERP applications. Especially ***FLATFILE** does also provides a SAP IDOC interface. DB/2 files can be output into user-defined inhouse-formats and can be re-imported afterwards.

Along with its SAP IDOC functionality, by offering a GENTRAN(r) DDF interface i-effect provides an ABAP tool for SAP systems to export SAP IDOC definitions from a SAP system as XML file. These XML directory definitions can be easily imported by i-effect to add them to the internal directory of a product.

All functions can be processed menu-controlled or completely automatically controlled with the module ***SERVER** to find further information.

- Interface for all ERP applications
- Further processing of SAP IDOC types

MODULE: *AS2 - EDI over Internet

The internet is the most cost saving data transfer canal for companies, which exchange EDI messages with their trading partners. The protocol EDIINT AS2 (Applicability Statement 2) was developed to put electronic business communication via internet on a most reliable and safe basis.

AS2 allows small and midsized companies with low budget to attend electronic data interchange (EDI). Large enterprises save their monthly high transaction costs associated with Value Added Networks (VAN) by switching from classical EDI to EDI over the internet (EDI-INT, Electronic Data Interchange Internet Integration).

The security techniques of EDIINT AS2 decreases turnaround time for business transactions.

i-effect *AS2 is the native solution for communication via AS2 on IBM System i5 (iSeries, AS400).The i-effect modules *AS2 and *CRYPT provide all the advantages of high-security internet communication. Digital signature, acknowledgement of receipt and encryption are included. In combination with i-effect *EDIFACT and *FLATFILE you get top-class edi converter, too. You' ve got the choice to profit step by step or at once from a complete edi solution at the same low costs. Furthermore, the edi workflow can be automated by the module *SERVER.

i-effect *AS2 suits to companies of all branches. Large trade chains have already taken advantage of EDIINT AS2 and expect from their partners and suppliers to go productive with AS2. This trend is unhesitatingly confirmed by notable AS2 customers of menten GmbH like Spedition Kleine, Trinks GmbH and DACHSER GmbH & Co. KG. DACHSER, which is one of Europe's leading logistics providers, exchange EDI data with its business partners i.e. Globus, Conmetall, Symrize, Computata und GAH Alberts via AS2 with i-effect. Also Conditorei Coppenrath & Wiese, Europe's leading supplier of deep-frozen bakery products, switched to EDI over internet. Besides, the performance of AS2 was successfully tested with T-Systems, Wrigley and OBI.

FEATURES

- Native i5/OS and OS/400 (IBM System i5, iSeries, AS/400)
- transfer via HTTP with optional SSL (HTTPS)
- multiple-to-multiple sending and receipt, unlimited multiple connections
- synchronous and asynchronous acknowledgement of receipt (MDN)
- certificate manager
- X.509 v3 certificate (PKI)
- digital signatur and encryption in combination with i-effect *CRYPT
- monitoring of automated EDIINT AS2 workflow
- flexible methods for enterprise application integration (commands, file monitoring)
- logbook (detailed protocol about all sessions and activities)
- automatic restart in case of transmission cut-off and logging functions
- extensible to bidirectional conversion of message types from inhouse formats into partner specific formats; all EDIFACT formats and integration of ERP is supported (EDI, flat file, SAP IDOC, etc.)

Beside the communication with AS2, i-effect embraces modules to communicate via the protocols *OFTP, *FTP and X.400 (Telebox).

MODULE: *TELEBOX - Global Communication within The X.400 Network

Telebox is the mailbox system of T-Systems, the leading German service provider for information and communication technology. Formerly known as Telebox 400, BusinessMail X.400 is part of the category Value Added Network which provides a safe and solid information system alternatively to the internet.

BusinessMail X.400 is based upon X.400 standard which ensures a reliable electronic interchange of sensitive business data with partners within a world-wide communication network. The VAN service supports the store-and-forward mechanism: Incoming and outgoing EDI messages are stored and in a mailbox or rather fetched.

i-effect *TELEBOX is a native iSeries connector by which you can transmit your iSeries business data between X.400 systems via the BusinessMail X.400 service of T-Systems. Combined with EDI-converter ***EDIFACT**, i-effect ***TELEBOX** offers the communication component for your complete EDI solution on IBM System i5 (iSeries , AS/400). Of course, ***TELEBOX** can be combined with other i-effect modules, too.

The telebox dispose of several ways of access (telephone network, modem, ISDN, Datex-P). Select the kind of access corresponding to your individual needs or to your existing installations. Being sales partner of T-Systems, we are pleased to advise you on this issue any time. Ease your work and place your order of BusinessMail X.400 services with our assistance.

FEATURES

All i-effect functions can be processed menu-controlled or completely automatically controlled with the module ***SERVER**.

- point-to-multiple-point transfer
- automatic restart in case of transmission cut-off
- logbook (Detailed protocol about all sessions and activities).

AS2 Gateway

Telebox user achieve enormous cost-savings when transferring their data via the AS2-gateway of T-Systems. EDI messages keep on being transmitted to the same X.400 addresses of their partners. No configurations have to be made on the partners side. Trading partners can transfer their data as usual without having access to the AS2 gateway. The data is being routed over the AS2-gateway to the new AS2-adapter.

i-effect ***AS2** is the native iSeries software for data transfer via EDI-INT AS2. The highly integrated modules ***TELEBOX** and ***AS2** are running in combination, too.

As business partner of T-Systems we are looking forward to supporting you in all steps to implement your AS2 gateway.

MODULE: *OFTP - For Automotive and Suppliers

OFTP (Odette File Transfer Protocol) is the protocol for point-to-point data transfer, which was originally developed for electronic business communication between the automotive industry and its suppliers.

In many european countries, OFTP is known as ODETTE (originally for Organization for Data Exchange Through Teletransmission in Europe). The organization ODETTE, established by the european automotive industry, is putting up standards for e-business communication, electronic data interchange and logistic management. OFTP is as well applied on systems for payment transactions between banks and companies (clearing), in chemicals and transportation industry. OFTP meets the recommendation 4914/2 of the VDA (The German Association of the Automotive Industry).

With **i-effect *OFTP** you get a native high-performance transmission software for IBM System i5 (iSeries, AS/400). **i-effect *OFTP** includes all advantages of secure data exchange.

FEATURES

All i-effect functions can be processed menu-controlled or completely automatically controlled with the module ***SERVER**.

- data exchange via modem, X.25, ISDN or direct TCP/IP connection
- direct connection to V.24 or X.21 of IBM System i5 (iSeries)
- secure transport through access protection with OFTP password and a world widely unique Odette-ID
- in combination the with modules *ZIP and *CRYPT, data can be compressed offline and encrypted according to AES standard
- automatic restart in case of transmission cut-off
- logbook (detailed protocol about all sessions and activities)

MODULE: *SERVER - Workflow Automation

Module **i-effect *SERVER** saves you administration time and cost by enabling complete or selected automation of i-effect system processing. ***SERVER** can be configured to initiate i-effect functions event-driven, for example when a report arrives in an output queue, or it can call functions according to the schedule on particular days or time of the day. It monitors IFS directories, DB/2 libraries, and output queues. The arrival of an object can trigger company specific, predefined processes.

Automation helps processing workflow in compliance with regulations (i.e. digital signed invoices), the service level of business processes is kept up even in case of personell shortage and the workflow efficiency will stay the same or will increase in consideration of decreasing budgets.

Lower costs, heighten quality through automation

- Digital workflow reduces throughput time of business processes.
- The number of process steps is being reduced.
- Transaction costs referring to a process step are sinking.
- The changeover from manual to digital processes increases quality, since manual entering of data is extremely error-prone.
- Automation increases the flexibility of departments implementing change requests in workflow.
- Digital process can be monitored. The monitoring provide information for optimizing the working processes. The number of aborted processes decreases.

Module ***SERVER** enables customers to tailor the workflow processes specifically to their needs.

For automation of i-effect system processing the combination of ***BASE** plus at least one functional module plus the module ***SERVER** is obligatory.

FEATURES

- completely automatic call of any function event-driven or according to a schedule
- monitoring of IFS directories, DB/2 libraries, output queues
- configuration of workflow by predefined event-driven processes.
- reorganisation of logbook files