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Epicor Electronic Reports

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Customer Webcast | Americas

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▶ Your lines are muted during the presentation

▶ Please enter your questions in the Q&A window any time during the webcast

▶ At the end of this session we will discuss some of the questions

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Country Specific Functionality (CSF)

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Live Demo

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Introduction

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Epicor Electronic Reports

▶ Prepare electronic reports for third party organizations

▶ Chain multiple BAQs together

▶ XML, JSON, CSV, TXT file support

▶ Excel, PDF, Word, images supported with SSRS Report Server post processing

▶ Integrate with bank payment systems

▶ File tax returns and financial statements in electronic format

▶ Leverage simple e-invoicing

▶ Work efficiently with advisory companies and auditors

▶ Strengthen your global business management with legally required electronic reports

▶ Modify electronic reports delivered by the Epicor ERP Country Specific Functionality (CSF) packages

New Fact Sheet available!

Coming in 10.2.600

Epicor Electronic Reports

Epicor ERP

Module	Master Data	Transactional Data
General Ledger	Chart of Accounts (COA) Tax / exemption rates	Journal entries Tax transactions
Accounts Payable / Accounts Receivable	Vendor details Customer details	Vendor & customer invoices and payments VAT transactions
Material Management	Part details Warehouse information	Purchase Orders Sales Orders Deliveries & receipts
Production	Machine / workstation details	Job transactions (material, labor, burden)

Data sources
- SQL tables
- BAQ
- EI

Output formats
- XML, JSON, CSV, TXT
- PDF, Excel, Word by SSRS Report Server post-processing

Data File Size

Frequency

Transaction-based / Live Data Feed	Periodic Electronic Reports	Annual / Large Audit files
Bank Payment Integrations	Filing Tax Returns	Financial Statements in electronic format
Electronic Invoices	Monthly VAT Reports	SAF-T XML files
Electronic Documents (orders, deliveries, receipts) / EDI	Invoices issued / received reports	Specific accounting balances
Electronic Ledgers (GL journal entries)	Inventory movement reports	

Electronic Data Files Consumed By:

Trading partners	Strategic partners	Advisory firms
Digital signature processors	U.S. Securities and Exchange Commission (SEC)	Financial audits
Banks	Analysts / Accountants	Investors
Local authorities	Local authorities	Local authorities

Electronic Reporting Solution Creators
- Epicor ERP users
- IT staff
- Epicor Professional Services (PS) consultants
- Epicor Custom Solutions Group (CSG)
- Epicor authorized consulting partners
- Epicor development team

Main Components
- Business Activity Query (BAQ)
- Report Data Definition (RDD)
- Report Style
- Electronic Interface (EI)
- Printing User Interface
- User definable parameter entry screens
- Business Process Management (BPM)
- Solution Workbench

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Epicor Electronic Reports – Examples – CSFs

Portugal

Poland

India

Country Specific Features (CSF)

Country Specific Functionality (CSF)

▶ Standalone packages available for download from EPICWeb

▶ CSFs updated regularly for each new Epicor ERP version

▶ User Guides

▶ The Epicor Electronic Reports is often used by dev teams to deliver CSF functionality
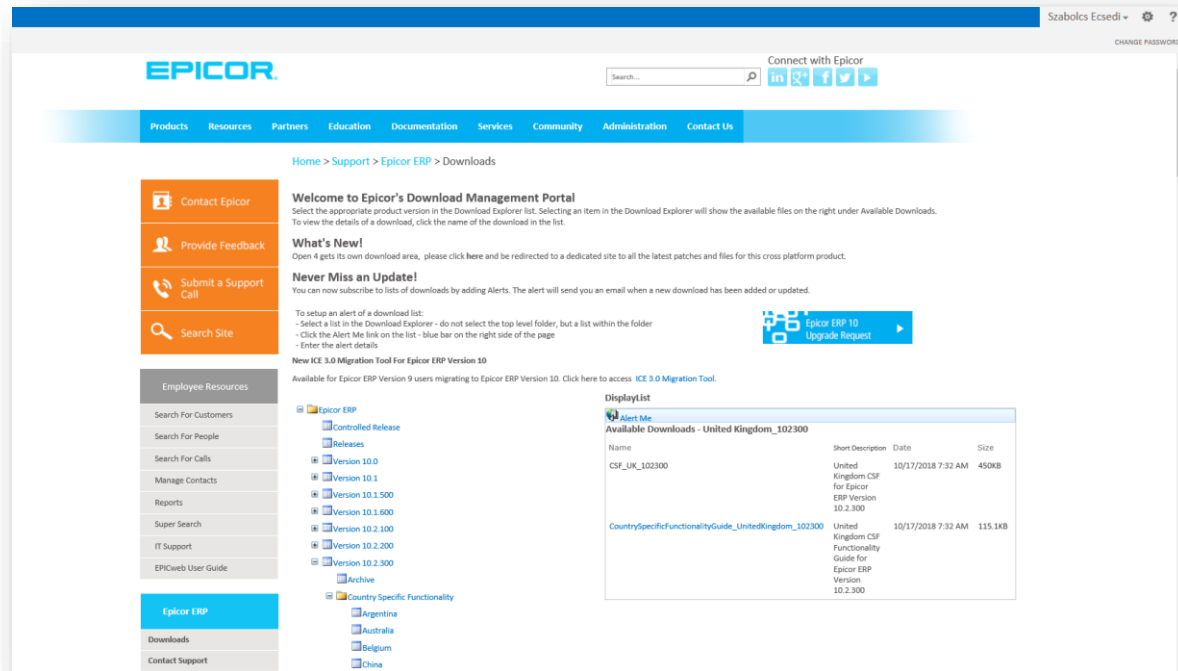
New Fact Sheet available!

Coming in 10.2.600

Country Specific Feature Updates

- ► **UK** MTD enhancements
- ► **Germany/France**: Electronic Invoices in PDF/A3 format
- ► **Portugal**: QR Code on AR invoices
- ► **EU**: EORI (Economic Operators Registration and Identification) Number, used for export to / import from the EU
- ► Updates for **Netherlands, Sweden, Norway, India, UAE, Mexico, Colombia, China, Malaysia, Taiwan**

- ► Saving cost for customers on becoming / remaining legally compliant in countries
- ► Add-on local capabilities built on top of standard Epicor ERP functionality in any application program where required
- ► Consistent local language, look and feel throughout the application
- ► Reduced end-user training and total cost of ownership
- ► Launch of CSF Partner Development Program leveraging extensibility – **Poland, Indonesia, Thailand**

Report Creation Overview

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Epicor Electronic Reports – Design Flow

Analyse and define report data requirements

Create/Modify data sources
BAQs, Tables, EIs

Create Report Data Definition, define relationships between data sources, define prompts for criteria

Construct electronic report by mapping report fields to the data source columns

Define report style and select electronic report

Define a menu item for reports and select the report style as program to run

Start the report using the menu item, fill in the criteria and execute the report

Plan | Design | Map | Execute

Design | Plan | Map | Execute | Design | Plan | Map

Epicor Electronic Reports
Report Creation Process Overview

Inputs	Processes	Outputs	Post-Process
▪ **Business Activity Queries (BAQ)** ▪ **Tables** ▪ **Electronic Interface Programs (EI)** ▪ **External BAQs**	▪ **Dynamic Reports** ▪ **Report Styles in Applications**	▪ **XML** ▪ **JSON** ▪ **Delimited** ▪ **Text**	▪ **Electronic Interface (EI) Programs**
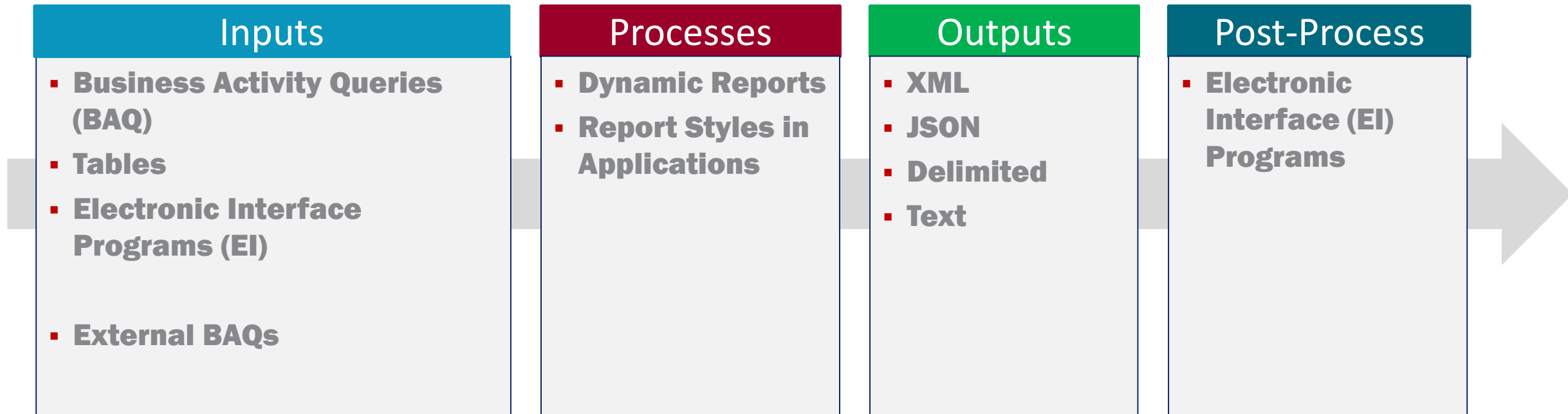
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Data Sources / Inputs

► Business Activity Queries (BAQs)

- User-friendly, easy-to-create, customized queries retrieve data from the Epicor ERP tables—these can be used in searches, reports and dashboards

► MS SQL Database

- The tables where the ERP master, transactional, and look-up data are stored
  - I.e. Company, InvcHead, InvcDtl, Customer, GLJrnDtl, GLAccount, TaxType etc.

► Electronic Interface (EI) Programs

- Standalone programs (C#) run by ERP
- Input: process an arbitrary incoming data file to generate input for ERP
- Output: retrieve and process ERP data to generate an output file
- Post-processing: transform an already generated output file

► External BAQs

- Customized queries to retrieve the data from tables in other databases

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Processes

▶ Dynamic Reports

- The run-time User Interface (UI) for running the reports is generated dynamically using the report options defined in Report Data Definition (RDD) entries

▶ Report Styles

- The Electronic Report definition is associated with a Report Style

- Select the Report Style in the ERP application (i.e. AR Invoice)

- The Electronic Report output linked to the Report Style is generated

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Dynamic Reports

▶ The report application program is linked to a menu item in ERP

▶ Report options are defined in the Report Data Definition

▶ Values entered are mapped to the parameters

Output Formats

► XML

► JSON

► Delimited files

► Text

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Post-Processes

Process the output file content using an Electronic Interface (EI) program just before it is written to the file or after the file is generated

- ► Create a digital signature or checksums
- ► Add a style-sheet to the header
- ► Rename, copy or move the output file
- ► Encrypt the output file
- ► Convert the output file another format
- ► Or any other process needed to modify the file after the file is generated

Post-Process
Adding a style sheet

► XML document can be viewed as HTML.

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Post-Process
Adding a style sheet

▶ E-invoice XML as HTML

```xml
<?xml version="1.0" encoding="UTF-8"?>
<Invoice xmlns="urn:oasis:names:specification:ubl:schema:xsd:Invoice-2" xmlns:xsd="http:/
xmlns:ext="urn:oasis:names:specification:ubl:schema:xsd:CommonExtensionComponents-2"
xmlns:cbc="urn:oasis:names:specification:ubl:schema:xsd:CommonBasicComponents-2" xml
    <cbc:UBLVersionID>2.0</cbc:UBLVersionID>
    <cbc:CustomizationID>urn:www.cenbii.eu:transaction:biicoretrdm010:ver1.0</cbc:Custom
    <cbc:ProfileID>urn:www.cenbii.eu:profile:bii05:ver1.0</cbc:ProfileID>
    <cbc:ID>30069</cbc:ID>
    <cbc:IssueDate>2013-07-18</cbc:IssueDate>
    <cbc:InvoiceTypeCode>380</cbc:InvoiceTypeCode>
    <cbc:TaxPointDate>2013-07-18</cbc:TaxPointDate>
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    - <cac:Party>
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        </cac:PartyIdentification>
      - <cac:PartyName>
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            <cbc:CityName>Chicago</cbc:CityName>
            <cbc:PostalZone>60633</cbc:PostalZone>
            <cbc:CountrySubentityCode>IL</cbc:CountrySubentityCode>
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                <cbc:IdentificationCode listAgencyID="6" listID="ISO3166-1">NO</cbc:Identifi
            </cac:Country>
        </cac:PostalAddress>
      - <cac:PartyTaxScheme>
            <cbc:CompanyID schemeID="NO:VAT">6691968</cbc:CompanyID>
          - <cac:TaxScheme>
                <cbc:ID>VAT</cbc:ID>
            </cac:TaxScheme>
```

Company CSFNO copied from
Education10Golden.EPIC06
Penny Lane
12600 S Torrence Ave..
60633 / Chicago
VAT Num.: 6691968

e-INVOICE

Electronic invoice customer
James Baker
Bill Street Name

25465 Oslo

E-Mail: jbaker@duranadam.com
Tel: 18001234567 Fax: 1800 4561231
VAT Num. : 789

Extension Num	urn:www.cenbii.eu:transaction:biicoretrdm010:ver1.0
Scenario:	urn:www.cenbii.eu:profile:bii05:ver1.0
Invoice Type:	380
Invoice No:	30069
Invoice Date:	18-07-2013
Order No:	49999

UUID:

Line	Item	Quantity	Unit Price	Discount %	Discount	VAT Rate	VAT	Other Taxes	Amt for Goods/Services
1	Component C1	1	325 USD			4,00 %	13,00		325,00 USD

Total Amount of Goods/Services	325,00 USD
Total Discount	
VAT (%)	13,00 USD
Total Amount Including Tax	338,00 USD
Amount to Pay	338,00 USD
Total Amount for Goods/Services	601,25 EUR
Total Amount Including VAT	625,30 EUR

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Epicor Electronic Reports - Examples

▶ E-Invoices *(UBL 2.1/BIS 3.0, UN/CEFACT CII, ZUGFeRD/factur-x)*

▶ GL Audit Files *(e.g. SAF-T)*

▶ Financial statements *(Balance sheet, Income statement)*

▶ E-Ledgers

▶ E-Delivery notes

▶ EDI files

▶ VAT declarations *(MTD UK, GSTR1 IN)*

▶ Bank payment files *(e.g. SEPA/ISO20022)*

▶ Data feeds from ERP to another system

What is Coming in Epicor ERP 10.2.600?

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Embed your XML file into a PDF/A-3 file

► Electronic Report outputs can be attached to the PDF/A-3 documents

► Define electronic report entry and check the flag **Attach to PDF/A-3**
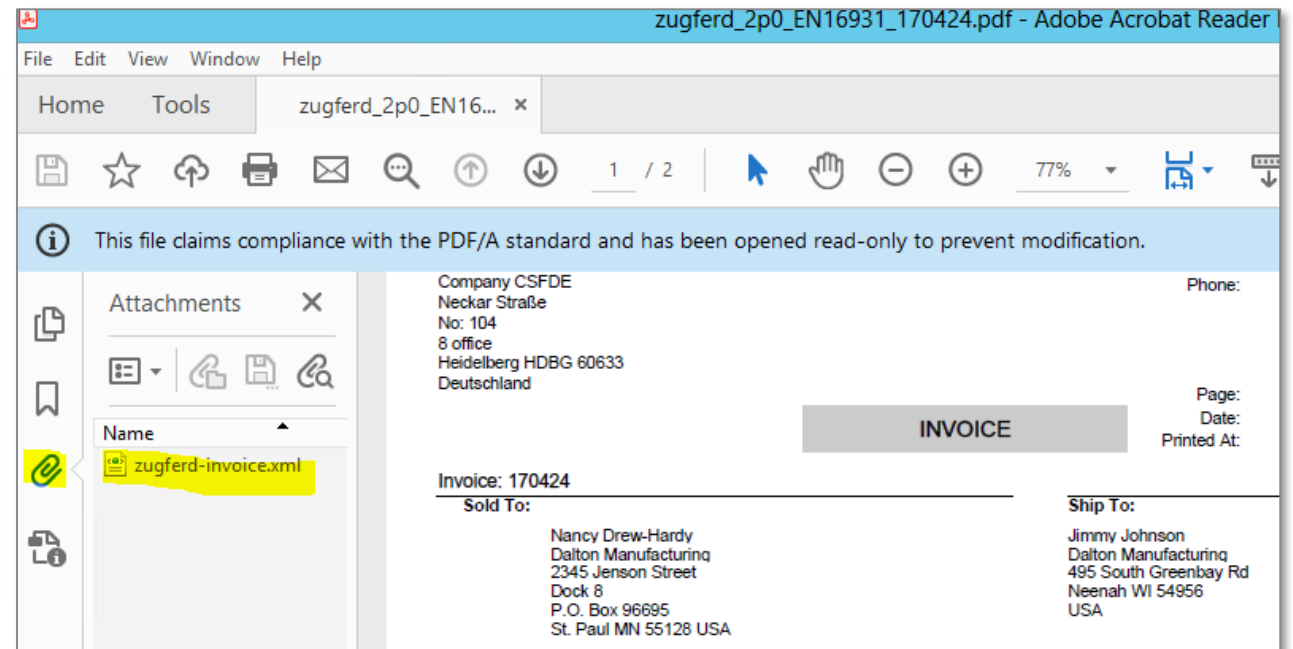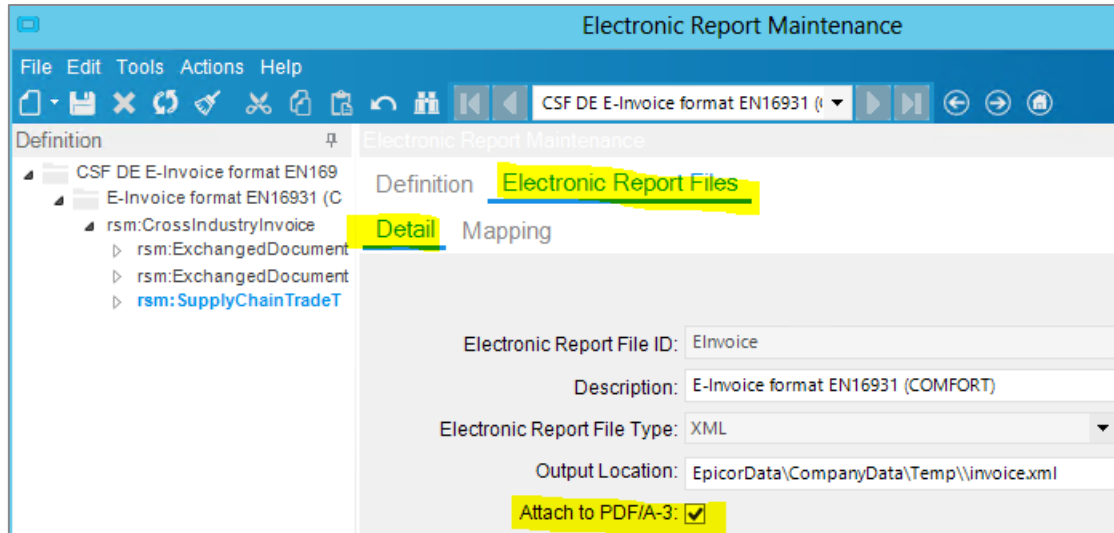
Digital Signature in PDF and PDF/A-3 Documents

► Select the digital certificate to sign the PDFs in corresponding Report Style for E-invoice

Options to Create E-Invoicing Solutions

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Options to Create E-Invoicing Solutions

▶ Epicor ERP 10.2.500 standard capability

- Create XML, attach PDF to sales invoices and outgoing e-mails

▶ Epicor Electronic Reports

- PDF/A-3, digital signature and token support

▶ Electronic Interface (EI)

- Programs coded in C#

▶ Epicor Service Connect

- Most sophisticated integration framework

Live Demo

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Live Demo

▶ Analyzing Output File

▶ Create BAQs

▶ Create Report Data Definition

▶ Create Electronic Report

▶ Define Report Style / Link Electronic Report

▶ Create Menu for Report or Use Report Style
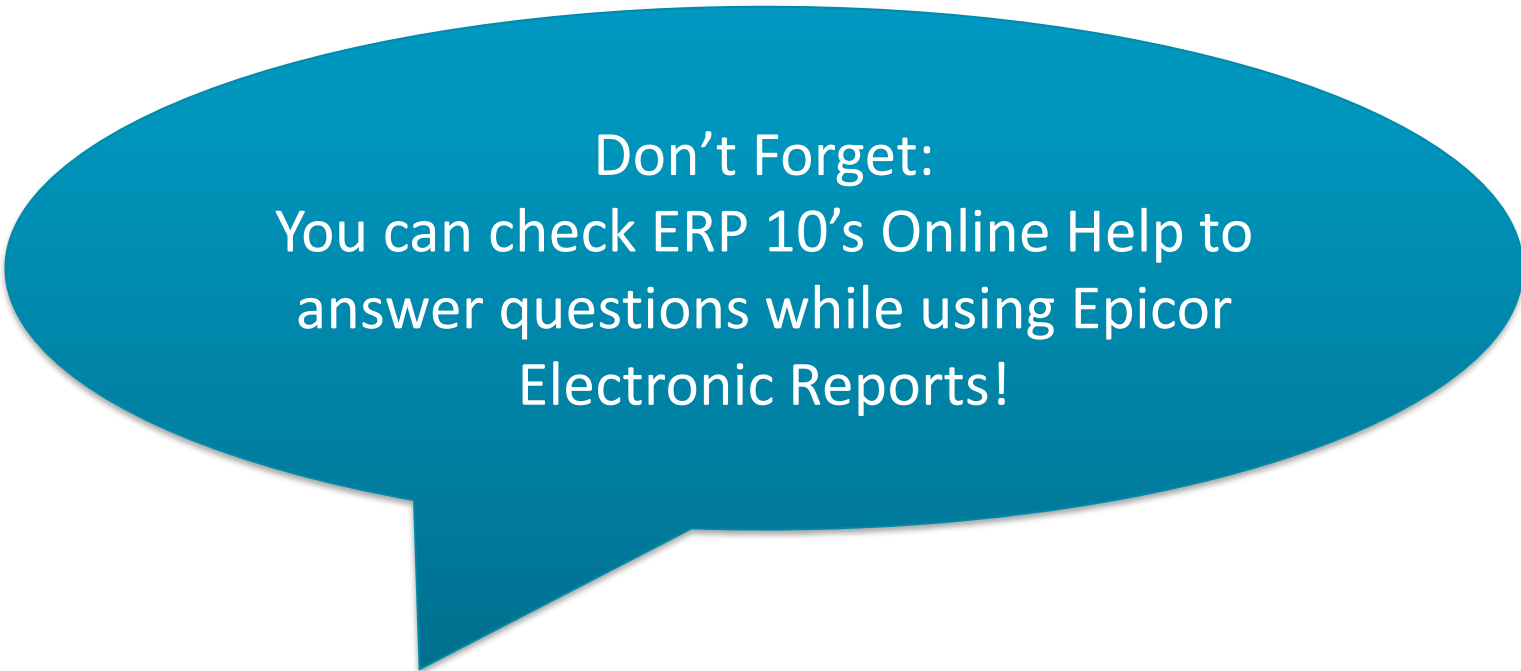
▶ Other Solutions

Epicor Service Connect

Aspect	Epicor Electronic Reports	Epicor Service Connect
Architecture	Organic part of Epicor ERP (module)	Separate product integrating to Epicor ERP Business Objects for each transaction type
Solution creation interface	User-friendly, built-in application screens in Epicor ERP, Solution Workbench (save, share, load easily)	Standalone application, more complex implementation
Run-time parameters	Flexible application screens with parameters (select i.e. period start/end dates, transaction types, output formats)	Programmable fixed or dynamic parameters
Messaging direction	One-way (output only)	Bi-directional communication via input and output channels
Data source	BAQ, EI, SQL tables in Epicor ERP	Input: incoming XML files Output: business events in Epicor ERP
Solution starts when	A report is run manually in the Epicor ERP application BPM triggers report execution	An event happens: 24/7 interception of business events, incoming files, server folders, FTP / behind the scenes
Fits best for	Generating electronic reports (list of transactions in a period)	Business transaction-based communication Integration to 3rd party systems
Examples	SAF-T reports, VAT reports, electronic financial statements, invoices received/issued in a period, inventory balances, legally required e-reports	24/7 integration to third party systems Receive and send purchase/sales orders, deliveries/receipts, invoices/payments
Most used formats	Structured format (top nodes and sublevels) XML, JSON, CSV, TXT, Excel	Structured format (top nodes and sublevels) XML, JSON, CSV, TXT

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Resources

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Resources

▶ [Epicor Electronic Reports Fact Sheet](NEW)

▶ [Epicor ERP Country Specific Functionality (CSF) Fact Sheet](NEW)

▶ Key Contacts:

- Kayhan Karayel, Product Manager
- Patrick Ferrington, Software Development Manager
- Szabolcs (Sabi) Ecsedi, Product Marketing Manager for Finance

▶ Contact your Epicor Sales Account Manager for more information!

Don't Forget:
You can check ERP 10's Online Help to answer questions while using Epicor Electronic Reports!

Questions and Answers

Please enter your questions in the Q&A window

Thank You!

Contact your Epicor Sales Account Manager for more details!

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