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8.0 Electronic Business Transactions

Implementing electric choice requires Detroit Edison and suppliers to transfer large volumes of data on an on-going basis. A key to seamless data transfer is following consistent communication standards. This chapter provides the required information associated with establishing electronic business transactions (EBT).

As of February 3, 2003, all data transfer can be accomplished using extensible markup language (XML). During a transition period, suppliers who are EDI qualified can use either EDI or XML as a transaction medium. Suppliers entering the Detroit Edison Electric Choice program after February 3, 2003 will use only XML and will be tested for their capability to transfer data in XML. Suppliers who are currently qualified as having EDI data transfer capability will be retested for XML data transfer capability. [See Section 8.4.](#)

This chapter includes information on electronic business transactions with Detroit Edison through:

- The Detroit Edison web site
- Extensible Markup Language (XML)
- Electronic Funds Transfer (EFT)
- Information on testing electronic business transactions

8.1 Detroit Edison Web Site Communications

The energy suppliers web site has been added to the Detroit Edison web site specifically for suppliers who want to participate in the Electric Choice Program. This site can be found at <http://www.suppliers.detroitedison.com>. The content of this web site is updated regularly.

8.1.1 Web Site Content

The contents of the energy suppliers section of the Detroit Edison web site are divided into two subject areas: non-secure and secure. The non-secure area contains information directed to alternative electric suppliers and marketers regarding Electric Choice Program participation. Any individual who visits the Detroit Edison web site can access this site. The secure area contains information that is accessible only by suppliers once they have completed the registration process with Detroit Edison.

The contents of the non-secure area include information on participation qualifications, supplier support components, a glossary of program terms, available downloads and links, and a list of electric choice frequently asked questions.

The secure area of the Detroit Edison web site contains confidential information and applications that allow participating suppliers to easily conduct business with Detroit Edison.

- To access this secure area, suppliers must register through the online registration page located on the non-secure portion of the web site in the How to Qualify section. Once the registration is received, a login user name and password are assigned to the supplier, enabling access to its qualification status. Once qualified, suppliers are able to access additional individual account information, change their passwords, enroll customers, update customer information, view billing information, etc.

8.2 EBT Communications

Detroit Edison intends to conduct the majority of communications and data exchanges to and from suppliers using standard transaction formats within an XML environment.

8.2.1 Transitioning from EDI to XML

For the duration of the transition period suppliers may continue to use standard EDI transactions. Detroit Edison will provide suppliers with electronic notification at least 90 days prior to the termination of the transition period. At such time all suppliers will interact with Detroit Edison using XML.

8.2.2 Establishing XML with Detroit Edison

Suppliers who wish to establish XML capability with Detroit Edison should begin by contacting the Detroit Edison Electric Choice Supplier Support Center. Support center personnel function as the liaison between suppliers and the Detroit Edison XML Group. The XML Group will assist suppliers in understanding the requirements for establishing XML communications with Detroit Edison, identifying the responsibilities of both parties, and compiling the necessary electronic transmission control information for XML communications. The Electric Choice Supplier Support Center can be reached at 313.235.3796 or 888.830.2170. Suppliers who are not XML capable should contact the Electric Choice Supplier Support Center. Support center personnel will work with suppliers to help them implement the required XML communication standards.

To communicate using XML, suppliers will need to obtain software capable of generating DSA 1024 or RSA 1024 encryption and decryption. Detroit Edison will provide File Transfer Protocol (FTP) accounts for them to download and upload files. This information can be communicated through the Electronic Business Transactions Profile, which can be found on the Detroit Edison web site in the Downloads & Links section.

8.2.3 XML Transactions

Detroit Edison uses McAfee Pretty Good Privacy (PGP) version 6.5.2 or any version compatible with 6.5.2. Detroit Edison requires using PGP or PGP compatible DSA 1024 or RSA 1024 to encrypt or decrypt transactions.

Detroit Edison XML schemas are available on the Detroit Edison web site in the Downloads & Links section.

Standard transaction sets include:

- 810 – Invoice Transaction Set. All invoicing between Detroit Edison and suppliers is done with the 810 transaction set. Detroit Edison uses this transaction set to notify alternative electric suppliers of customer monthly billing and usage charges as well as any direct charges to suppliers.
- 814 – General Request, Response, or Confirmation Transaction Set. Suppliers should submit all enrollment information using transaction set 814. Detroit Edison uses this transaction set to send enrollment confirmation or rejection notices to suppliers. This transaction set is also used for customer information changes as well as to communicate Detroit Edison service termination/disconnection information to suppliers, when available.
- 820 – Payment Order Transaction Set. Detroit Edison and suppliers use this transaction set to communicate remittance data for posting to accounts. Detroit Edison will send the 820 transaction set directly to the supplier. The supplier must send the 820 transaction set directly to their “Inbound Directory” on the Detroit Edison FTP server.
- 867 – Product Transfer and Resale Report Transaction Set. Detroit Edison uses this transaction set to send customer load data and billing determinants.
- 997 – Functional Acknowledgment. A functional acknowledgement is sent by the receiving party to the sending party in response to the receipt of an XML transaction. The 997 transaction set confirms that a transaction has been received.

8.2.4 Receiving XML Transactions

To receive XML transactions from Detroit Edison, the supplier will:

- Login to the Supplier File
- Choose Supplier Account link
- Choose Update Outbound Preferences page link
- Select XML option for all the transaction types and then Submit

8.2.5 Connecting to Detroit Edison via FTP

Suppliers are expected to transfer XML transaction sets with Detroit Edison via FTP. Detroit Edison FTP server uniform resource locator (URL) is : <ftp.detroitedison.com>. Detroit Edison will provide a unique userid and password for each supplier to assure secure communications and data confidentiality. Each FTP login account will have two subdirectories from their home directory: Inbound and Outbound. Inbound transaction sets to Detroit Edison from supplier should be written to the Inbound directory. Suppliers will have 'write' access to the Inbound directory and are expected to write transaction sets to this directory that Detroit Edison will read and process. Suppliers will have 'read' access to the Outbound directory under their home directory. Suppliers can download outbound Detroit Edison transaction sets from the outbound directory.

8.2.6 XML File Naming Conventions

The naming convention for all inbound and outbound XML transaction sets is:

- Supplierid_transactionset_datetime.xml.pgp
 - Supplierid is the ftp login id
 - Transactionset is the XML transactions sets, i.e. IN814Enrollment, OUT814, OUT810CustomerInvoice
 - Datetime is in yyyyymmddHHMMSS format

An example would be: supp1234_IN814Enrollment_200301071217.xml.pgp. In this example, the above transaction set is from a supplier with FTP login id of supp1234, for an inbound 814 enrollment created on January 07, 2003 and is PGP encrypted.

NOTE: All inbound and outbound transaction sets must be encrypted using the software specified in [Section 8.3.1](#). This will ensure the identity and security of the contents. Detroit Edison recommends that all transaction sets be compressed to reduce the size for faster exchange.

8.3 Electronic Funds Transfer (EFT)

Establishing EFT with Detroit Edison

Electronic Funds Transfer (EFT) is the electronic processing of financial transactions. Detroit Edison will use ACH (Automated Clearing House) transactions for payment. For the EFT testing process, see [Section 8.6](#).

8.4 Testing Electronic Communications

Detroit Edison will test all applicable XML transactions with each supplier. The test will be performed using the Detroit Edison FTP account (<ftp.detroitdison.com>). For all applicable transaction sets, suppliers should specify the transaction type as “certification”. The testing will confirm that transactions can be successfully transmitted and that valid data is received and conforms to the schema.

8.5 Supplier XML Testing Procedure

The XML transaction sets to be tested depend upon whether a supplier is an alternative electric supplier or a marketer. Inbound is from Detroit Edison to the supplier. Outbound is from the supplier to Detroit Edison. [Table 8-1](#) identifies transaction sets each alternative electric supplier and marketer must test.

Table 8-1

Transaction Sets

Transaction Set	AES	Marketer
810 Invoice – Inbound	✓	✓
814 Enrollment – Inbound	✓	✓
814 Enrollment – Outbound	✓	
820 Remittance Advice – Inbound	✓	✓
820 Remittance Advice – Outbound	✓	✓
867 Product Transfer and Resale Report – Inbound	✓	✓
997 Functional Acknowledgment - Inbound/Outbound	✓	✓

Testing procedure steps to be followed by suppliers are:

- Step 1 Fill out the EBT Profile form on the Detroit Edison Web site (see [Appendix T](#)). This form will automatically be sent to the Detroit Edison XML coordinator.
- Step 2 Send the supplier’s public key as an email attachment to xmladm@dteenergy.com
- Step 3 The Detroit Edison XML coordinator contacts the supplier’s XML contact named on the EBT Profile to determine a testing schedule and initiate testing.
- Step 4 The Detroit Edison XML coordinator confirms the communications information on the EBT Profile.
- Step 5 The Detroit Edison XML coordinator requests the supplier’s XML contact to send an 814 enrollment transaction set.
- Step 6 Upon electronic receipt of the 814 transaction set, Detroit Edison checks for XML and content acceptability. In the event of a problem with the transaction, Detroit Edison will contact the supplier’s XML contact by telephone or e-mail.

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- Step 7 Upon receipt of the 814 transaction set, the Detroit Edison translator automatically sends a 997 functional acknowledgment. However, this acknowledgment does not guarantee the content of the transaction is acceptable.
- Step 8 Repeat steps 4 through 6 until the test is successfully completed.
- Step 9 The test is considered successful when Detroit Edison receives a test with no XML or content errors and the supplier receives the 997 functional acknowledgment from Detroit Edison.
- Step 10 Upon confirmation by the Detroit Edison XML Coordinator of an acceptable 814 transaction set, Detroit Edison sends the supplier an enrollment confirmation, as shown in the 814 Implementation Guide, Detroit Edison to Suppliers.
- Step 11 The supplier sends a 997 functional acknowledgment upon receipt of the 814 transaction set.
- Step 12 The alternative electric supplier verifies the data with their translator and application system according to its test procedures. The Detroit Edison XML Coordinator is contacted upon verification of the data to confirm acceptance or discuss issues.
- Step 13 Repeat steps 9 through 11 until the tests are successfully completed.
- Step 14 The test is considered successful when the supplier receives a test with no XML or content errors and Detroit Edison has received the 997 functional acknowledgment from the supplier.
- Step 15 Repeat steps 4 through 7 for the balance of the 814 transaction set from Detroit Edison to the supplier.
- Step 16 The tests are considered successful when Detroit Edison receives all tests with no XML or content errors and the supplier receives all 997 functional acknowledgments from Detroit Edison.
- Step 17 Repeat steps 9 through 12 for the balance of the 814 transaction set examples from the supplier to Detroit Edison.
- Step 18 The tests are considered successful when the supplier receives all tests with no XML or content errors and Detroit Edison receives all 997 functional acknowledgments from the supplier.
- Step 19 Repeat steps 9 through 12 for the 810 and 867 transaction sets until they are successfully completed. These tests are from Detroit Edison to the supplier.
- Step 20 The tests are considered successful when the supplier receives all tests with no XML or content errors and Detroit Edison receives all 997 functional acknowledgments from the supplier.
- Step 21 Repeat steps 4 through 7 for the 820 transaction set the supplier sends to Detroit Edison.
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- Step 22 The test is considered successful when Detroit Edison receives a test with no XML or content errors and the supplier receives the 997 functional acknowledgment from Detroit Edison.
- Step 23 Upon successful completion of all of the above tests and the EFT testing (see [Section 8.6](#)), the Detroit Edison XML Coordinator notifies the Electric Choice Supplier Support Center of completion of the XML testing phase.

8.6 Supplier Electronic Funds Transfer (EFT) Testing Procedure (Supplier to Detroit Edison)

An EFT test from the supplier to the supplier's bank to Detroit Edison's concentration bank to Detroit Edison is required. EFT testing procedures to be followed by suppliers are:

1. The Detroit Edison cash management XML Coordinator sends a form to the supplier contact detailing Detroit Edison banking information and authorizing the supplier to deposit funds in the Detroit Edison bank account. The form includes space for supplier banking information. Upon completion, the supplier returns the form to Detroit Edison.
2. Detroit Edison requires an XML 820 remittance advice transaction for the payment information directly to Detroit Edison. The supplier must use a 9-digit account number on their remittance advice.
3. Detroit Edison will confirm receipt of the test into their bank with an e-mail to the supplier.
4. Supplier will receive an 997 functional acknowledgment as confirmation.
5. If the test is not successful, the two parties involved at the breakdown point resolve the issues. The test will resume from the breakdown point. If necessary, the test can be restarted from step 2.
6. The EFT test is considered a success when:
 - The \$0.01 is transferred from the supplier's bank to the Detroit Edison bank.
 - The \$0.01 is deposited in the proper Detroit Edison bank account.
 - The \$0.01 is forwarded by the Detroit Edison bank to the Detroit Edison cash management system.
 - The \$0.01 is credited to the Detroit Edison billing system account number specified in the invoice referenced in step 2.

8.7 Supplier Electronic Funds Transfer (EFT) Testing Procedure (Detroit Edison to Supplier)

A full loop test from Detroit Edison's bank to the supplier's bank is required for suppliers using consolidated billing. EFT testing procedures to be followed are below:

1. The Detroit Edison payment management coordinator obtains information from the supplier detailing information about the supplier's bank. This bank information authorizes Detroit Edison to deposit funds into the supplier's bank.
2. The Detroit Edison payment management coordinator creates a \$0.01 test to be paid to the supplier. The DTE XML staff will notify the supplier when the test has been sent.
3. The supplier will confirm receipt of the test into their bank with e-mail to DTE XML staff at xmladm@dteenergy.com.
4. The Detroit Edison EDI coordinator will send the supplier an 820 transaction set for the \$0.01.
5. The supplier will confirm receipt of the test into their system by sending back a 997 functional acknowledgement to Detroit Edison.
6. If the test is not successful, the two parties will work to identify and resolve the issues involved at the point of breakdown. If needed, the test may be restarted from step 2 above.
7. The EFT test is considered successful when:
 - The \$0.01 is transferred from Detroit Edison's bank to the supplier's bank
 - The \$0.01 is deposited in the proper supplier's bank account.
 - Confirmation is made that supplier's account has been credited appropriately.
 - Detroit Edison receives the 997 functional acknowledgment.