Systrends

Standardizing B2B Technologies

eTariff Management System

April 2009
Agenda

- Introductions
  - B. Richmond
  - D. Darnell
- Company Background
- Products & Services
  - Transaction Transporter ($T^2$™)
  - Hosted Services
  - eTariff Management System
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www.systrends.com
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Company Background

- Founded in 1986
- Specialization: B2B eCommerce (EC) Technologies
- Software Products
- Hosting Services
  - Toronto, Ontario, Canada
  - Hamilton, Ontario, Canada
  - Phoenix, Arizona, USA
  - Tempe, Arizona, USA
- Professional Services
Systrends Company Structure

Systrends USA
- USA Customers
- Project Management
- Consulting
- USA Software Development
- Service Bureau - Arizona

Systrends International
- International Customers
- Project Management
- Consulting
- India Software Development / Outsourcing

Systrends Canada
- Canadian Customers
- Project Management
- Consulting
- EBT/XML Hub – Canada

Note: Systrends USA, Systrends International, Systrends Europe, Systrends India, Systrends Canada are registered tradenames
Competitive Advantage - Standards Development and Leadership

We are actively involved in many of the leading standards organizations, task forces, and working groups.

- Board of Directors – North American Energy Standards Board (NAESB)
- Chair
  - GISB / NAESB XML Work Group
  - The Utility Industry Group (UIG) XML Work Group
  - The UIG Technology & New Ventures Committee
  - The Ohio Data Exchange Work Group
  - NAESB REQ Technical Electronic Implementation Subcommittee
  - EDIINT Work Group in ANSI ASC X12C
- Active member of the ANSI X12, NAESB, OASIS, TDTWG, GS1, OEB EBT WG organizations
- ANSI X12 Rep to Healthcare Information Technology Standards Panel (HITSP)

- Co-Chair
  - NAESB EDM (GISB EDM)
  - The Pennsylvania Electronic Data Exchange Working Group (EDEWG)
  - Transaction Set Owner of the District of Columbia EDI Committee
  - IEC TC57/WG16 (Framework for Energy Market Communications)

- Founding Chair / Group Leader
  - The Texas Data Transport Working Group
  - Ontario Energy Board’s (OEB) EBT/XML Standards Development Task Group
  - The Arizona EC / EDI Roundtable

- Co-Chair
  - GS1 – eTG (eCom Technology Group)

- Work Group Leader
Competitive Advantage - Energy Industry Expertise

- **EDI & XML Experience**: Spoke & Hub Solutions, Services, Consultation, Documentation and Training

- **Standards**: ANSI ASC X12, UN / EDIFACT, ebXML, IETF EDI-INT, UIG, GISP/NAESB EDM, WEDI, OEB EBT


- **Energy Deregulation Market Leadership**: International experience in many Markets, Industry Standards Committees & Working Groups

- **Integrated Solutions Development**: XMLbridge™ & Transaction Bridge™ & Transaction Transporter (T2)™ & eTariff
**US Energy**
- Allegheny Energy Services
- APS Energy Services
- Bangor Hydro Electric
- Boston Gas (N-Star)
- Brazos Electric Cooperative
- Central Hudson Gas and Electric
- Central Maine Power
- Cinergy/Duke
- Commonwealth Energy Corporation
- Dynegy Inc
- Electric America
- Exelon
- ISO-NE
- New West Energy
- Occidental Power Marketing
- PECO Energy
- Pedernales Electric Cooperative
- Potomac Electric Power Company
- Rayburn Country Electric Cooperative
- Salt River Project
- Sharyland Utilities (Hunt Power)
- Texas Commercial Energy
- Texas New Mexico Power/PNM
- TXU

**Electronics/ Semiconductor**
- Honeywell,
- Insight
- Motorola
- TRW
- Western Design Center
- InfoEnergy

**Government/Associations**
- Data Interchange Standards Assoc.
- Department of Defense (DOD)
- ERCOT
- NASA
- NY PUC
- Ohio PUCO
- Ontario Energy Board (OEB) on behalf of Hydro One
- TRW/BDM/United States Air Force

**Technology/Software**
- Excelergy
- IPNet
- Logica
- SCT Utility Systems
- Viasoft
- Daffron
- Harris

**Retail**
- Arrow Products Inc
- Café Valley Inc
- Competition Friction
- Dashmat Saddleman Inc
- Demos LTD
- Paradiso, LTD
- SONY Pictures
- Unelko Corp
- Warner/Elektra/Atlantic
- Chic Scents Inc

**Canadian Energy**
- Brant County Power
- Burlington Hydro
- Chatham Kent Hydro
- City of Brantford
- Clinton Power Corp
- Dutton Hydro Limited
- EnWin Utilities
- Essex Power
- Festival Hydro
- Gravenhurst Hydro
- Hamilton Hydro
- Hydro One
- Innisfil Hydro
- Lakeland Power
- Lakefront Utilities
- Middlesex Power
- Newbury Power, Inc
- Oshawa Hydro
- Richmond Hill Hydro
- Planet Energy
- St. Catharines Hydro
- Union Gas
- Vaughan Hydro
- Veridian Corporation
- Waterloo North Hydro
- West Perth Power, Inc
- Whitby Hydro

**Europe Energy**
- Electricity Supply Board of Ireland
**Transaction Transporter T2™: The Multi-Market Solution**

**Client CIS & Back End Systems**

T2 Interface Controller Benefit:

- Allows CIS to remain “insulated” from significant B2B EC Standards changes as well as provides a storage facility for all native data.

**Systems Interface**

**T2 INTERFACE CONTROLLER**

- Electronic Business Processes
  - Translation
  - Schema Validation
  - Tracking date/time stamping
  - Archiving
  - Error Detection & Notification
  - Encryption/Decryption using
  - Universal Communications Capability: HTTP, FTP, GISP, etc.
  - Native data storage and retrieval
  - Data warehousing
  - Web presentment

**Market A’ Standards – Hub Environment**

- XML using PGP/HTTPS

**‘Market B’ Standards – Pt-to-Pt Environment**

- EDI via NAESB EDM

**Market C’ Standards – Hybrid Environment**

- OEB EBT/HTTPS
- AS2/HTTPS
- NAESB EDM
- AS1/SMTP
- AS4/HTTPS

**T2 INTERFACE CONTROLLER**

- EBT “Hub”
ECtrends™ Managed Services Overview

- EDI, XML, and eTariff transaction processing
- Affordable alternative to in-house solution investment
  ✓ Scalable to fit any budget
  ✓ Reduces need for in-house resources
  ✓ Allows clients to focus on core business
- ANSI EDI/XML & NAESB compliant Transaction Processing and Transport
- Provides Client remote access to real-time Activity Monitor
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eTariff Management System
eTariff Goals

✓ Create FERC Order 714 compliant XML.
✓ Import Tariffs directly from Microsoft Word.
✓ Provide an easy to use tool that will administer Tariffs and
  process FERC transactions.
✓ Facilitate workflow improvements to increase productivity.
✓ Customized user created reports and predefined reports.
✓ Track pending Tariff changes and accept approved changes
  back into Master Tariff documents.
✓ Maintain a comprehensive archive of Master Tariff changes and
  Tariff filings.
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<thead>
<tr>
<th>Feature Summary</th>
<th>Transporter</th>
<th>Enterprise</th>
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<tbody>
<tr>
<td>Generate FERC Order #714 Compliant XML</td>
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<td>Filing Tariff</td>
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<td>Record Locking</td>
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Infrastructure Required

- **Client**
  - Internet Explorer 6+
  - Firefox 2+

- **Web Server**
  - Internet Information Server 6+
  - Microsoft .Net Framework 3.5

- **Database**
  - SQL Server 2005+
  - Oracle 9+

- **File storage**
  - NAS / SAN / Windows File Share
Demo
Go to www.etariff.info to sign up for demo