

SmartPlant Instrumentation Technical User Forum P2C2 (Houston SPI TUF) Meeting	August 6, 2008 8:00 am ISA Expo – Reliant Center
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Attendees	42 Members in attendance 7 Online via Net Meetings	Copied To	LTUF Members
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Called By John Dressel	Prepared By John Dressel
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Item	Topic	Notes	Action/Due
1	Welcome	- Jim Federlein, ISA 20 Committee Chair Welcomed members of the Houston SmartPlant Instrumentation Local Technical Users Forum	
2	Chairman's Notes	<ul style="list-style-type: none"> - ISA Expo – I urge everyone to take advantage of exposition to look at the latest in instrument automation technology. Downstairs are displays from most vendors on process measurement and controls including the latest in wireless self configuring networks. - Electronic Marshalling – Emerson's DeltaV introduced a unique marshalling approach eliminates two-thirds of the wiring and connections needed by today's conventional marshalling cabinets. This new technology relays I/O information to any DeltaV controller via Ethernet backbone thus eliminating the need to wire to specific controller I/O cards. - SmartPlant Construction - Intergraph's New SmartPlant Construction meets the needs of construction companies, project management offices, fabricators, and owners in managing construction resources, materials, and schedules. - Business Automation – one of the keys to recovering from an economic downturn is to include more automation in your work processes. Utilizing the automation functions in SPI can and will improve accuracy and lower man-hours. - Interoperability – I recently asked LTUF members at one of our meetings "How many of you use the vendor interfaces with SPI?" The response was two audience members' hands out of forty. That is why I selected SPI Interfaces and Interoperability as our topic for today. 	
3	Minutes	- Minutes of last meeting approved	
4	Introductions	<ul style="list-style-type: none"> - Each member stood and introduced themselves and spoke of their utilization of SPI. - Welcomed several members who connected into meeting with NetMeeting. 	
5	Election Of Officers	<ul style="list-style-type: none"> - Election of Vice-Chair (nominees) <ul style="list-style-type: none"> o Betty Alexander, Shaw Group o Gene Haney, CB&I o Aarash Badiozzaman, Pasadena Refining - Election of Secretary (nominees) <ul style="list-style-type: none"> o Aarash Badiozzaman, Pasadena Refining o John Banda, Shaw Group o Daniel Siddiqui, Overload Services, Inc. 	

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		<p>Gene Haney was elected to position of Vice-Chair Daniel Siddiqui was elected to position of Secretary</p>	
6	Presentation	<p>SPI Interfaces and Interoperability - John Dressel, Fluor</p> <ul style="list-style-type: none"> • Introduction • SmartPlant Instrumentation (SPI) has more Vendor interfaces to than any other Process Controls Engineering Automation tool • • Topics • How interfaces work in a Perfect World SPI Spec Sheet Generation for Sizing and Selection Control Valves SPI Spec Sheet Generation for Sizing and Selection of instruments SPI Interfaces for Control System wiring I/O SPI Interfaces for DCS Configuration SPI Interfaces for Plant Maintenance and Operation • How interfaces work in the Real World Using SPI in As-Built, work-sharing, multi-contractor environment Issues with the SmartPlant Instrumentation Interfaces Problems with underutilization of SPI interfaces • What is the future of interfaces and integration How to manage integration, exchange, and hand-over of information between all parties involved in the process industries during the entire life cycle of a plant Standardize on minimum Specs and data sets for interoperability Utilization of NE 100 and ISO 15926 Standards for data interoperability • HOW SPI WORK PROCESSES SHOULD WORK FOR CONTROL VALVES Build Instrument Tags and input process sizing and selection data in SPI using automation functions Create Control Valve Datasheets in SPI Export to Vendor Sizing and Selection Software Use SPI or Vendor valve sizing calculations Use Vendor valve selection software Import Manufacturer and Model Numbers into SPI From Vendor Selection Software Export DDP data to SP3D for model Issue Purchase Orders and Construction Hookup documents from SPI • HOW SPI WORK PROCESSES SHOULD WORK FOR INSTRUMENTS Build Instrument Tags and input process sizing and selection data in SPI using automation functions Create Field Instrument Datasheets in SPI Export to Vendor Sizing and Selection Software Use Vendor sizing and selection of instruments 	

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		<p>Import Manufacturer and Model Numbers into SPI From Vendor Selection Software</p> <p>Issue Purchase Orders and Construction Hookup documents from SPI</p> <ul style="list-style-type: none"> • HOW SPI DCS INTERFACE WORK PROCESSES SHOULD WORK <p>Create Field Wiring Network with I/O Loading in SPI by EPC</p> <p>Import SPI I/O Card Library for DCS</p> <p>Connect devices and cables in SPI using the SPI Wiring Explorer and Modules</p> <p>Export SPI DCS I/O data to DCS Vendor Configuration Programs</p> <p>Operation and Maintenance Owner Operator Functions</p> <p>Use DCS Configuration software and SPI Wiring data to Configure and Maintain Process Control System</p> <ul style="list-style-type: none"> • SPI Interfaces in the Real World <p>Issues with the SmartPlant Instrumentation Interfaces</p> <p>Issues when using SPI in As-Built, work-sharing or multi-contractor environment</p> <p>The SPI Database is often remote with limited access via Terminal Services adding complexity to the use of interfaces – <i>(requires a neutral file for passing data)</i></p> <p>Some SPI Functions only work in the “Engineering Company” mode and not in the “Owner / Operator” As-Built Mode – <i>(Intergraph is working on a solution)</i></p> <p>Inconsistency of capabilities of different pillars on a work share project affects the quality of data passed through the Interfaces – <i>(requires project wide standards)</i></p> <p>Additional cost for Interface licensing results in limited usage of the interfaces</p> <p><i>User community is working with Intergraph and the vendors to include the interfaces in the standard licenses together with other add-on features</i></p> <p>SPI requires that the SmartPlant Foundation Integrator be loaded for the DCS Interface to work – even when only needing to download the I/O libraries</p> <p><i>User community has asked Intergraph separate the I/O libraries from the Interfaces</i></p> <p>Multiple Process Cases do not export properly from SPI to the sizing interfaces</p> <p><i>Intergraph is working on a solution to the export problem (May be a moot issue)</i></p> <p>Use of vendor specific SPI spec forms limits early engineering data development</p> <p><i>Utilization of standard SPI Spec Libraries based on ISA S20 Specifications</i></p>	

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		<ul style="list-style-type: none"> • SPI Interfaces in the Real World • Problems with underutilization of SPI interfaces Cost of license keys for interfaces limits availability <i>Reduce or remove the required special license key for all DCS interfaces and make the Interfaces part of the standard add-ons for all licenses</i> Different I/O Data requirements from different Vendors makes interface too complex <i>Develop a standard DCS data exchange library that will work across multiple DCS Vendors to import and export SPI data</i> The I/O Card Library used by EPC and DCS Configuration, Ranges and Set Points used by Owner Operators are part of the same interface <i>The I/O Card Library import needs to be separated from the DCS Interface</i> Lack of trained SPI and Vendor Users results in Manual or Paper transfer of data <i>Standardize the interfaces and data transfer so interfaces work the same from vendor to vendor makes user training simpler</i> The magnitude of data fields on Spec forms are confusing use more man hours to properly populate Specs. <i>Indicate Interface Required fields on the Standard SPI Spec forms</i> • Interfaces in the World of the Future The Vendor Interfaces are unique for each product line with separate user interfaces and integration mechanisms. As the interfaces mature they will assume a more standardized look and feel as well as a unified integration method The Intergraph SmartPlant Foundation integration component of SmartPlant Enterprise will allow supplier data to be integrated with any of the SmartPlant Suite of Software using adapters The Interfaces will be based on one or more international standards to facilitate Global Implementation across multiple business sectors • Standardized Instrument Specs • Future Interfaces and Integration The Process Engineering communities need to further coordinate efforts in areas critical to lifecycle information Interface and Integration Companies like Emerson, Fluor, Bechtel and Intergraph are working together to utilize international data interface standards for interoperability Data Interface and Integration 	

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		<ul style="list-style-type: none"> • STANDARDS WARS • NAMUR / Prolist NE-100 Interface Data Definition Interface Standard for engineering processes to build and maintain chemical plants • ISO 15926 is a Cross Product Data Mapping Integration Standard for data exchange developments in the oil and gas industries • Additional Standards that may apply • eCI@ss has established a Product, Services and Materials Naming Code Standard in many European market places and is integrating the German classifications (ETIM, Proficlass, ...) • PIDX is the eCommerce Standard for using XML Data Integration as a basis for procurement processes and data exchanges in oil and gas • ECCMA - developed a standard descriptive language for Data Exchange Compliance Requirements and cataloging individuals, organizations, locations, goods and services • LEADERS IN THE STANDARDS WARS • NAMUR / Prolist NE-100 Standard NE-100 for engineering processes to build and maintain chemical plants using Lists of Properties (LOP) for data exchange NE-100 currently contains 105 Instrument LOP for: Sensing instruments (51) Actuators (17) Interfaces (37) • ISO 15926 Integration Standard ISO 15926 is the basis for many developments in oil and gas data exchange Part 1 - Introduction, information concerning engineering, construction and operation of production facilities is created, used and modified by many different organizations throughout a facility's lifetime. The purpose of ISO 15926 is to facilitate integration of data to support the lifecycle activities and processes of production facilities. Part 2 - Data Model. a generic 4D model that can support all disciplines, supply chain company types and life cycle stages, regarding information about functional requirements, physical solutions, types of objects and individual objects as well as activities. Parts 4,5,6 - Reference Data, the terms used within facilities for the process industry. Part 7 - Implementation methods for the integration of distributed systems, defining an implementation architecture that is based on the W3C Recommendations for the Semantic Web. 	

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		<ul style="list-style-type: none"> • Future Interfaces and Integration While many of the Interface Standards work together and even complement each other, Others contradict or duplicate data transfer definitions Whatever standards the Intergraph SmartPlant Foundation integration component of SmartPlant Enterprise adopt – will probably become the de-facto standard for other interfaces The demand for Vendor Interfaces and Integration into Engineering Automation tools is growing and Intergraph is well positioned to take the lead in furnishing well designed and functional interfaces for some time to come The two standards that are the best fit for SPI are the NE 100 and ISO 15926. The remaining presentations at this meeting will focus on these two standards 	
7	Presentation	SmartPlant Instrumentation Interoperability – Ewan Botterill, Intergraph	
8	Presentation	<p>Introduction to the NE 100 interface – Dr. Peter Zgorzelski, Prolist Bayer Technology Services PROLIST INTERNATIONAL</p> <p>Welcome Dr. Peter Zgorzelski, works in the Process Management Technology staff unit at Bayer Technology Services GmbH and is Office Manager of PROLIST® INTERNATIONAL. He is active in NAMUR, eCI@ss, DKE and IEC working groups.</p> <p>Key benefits through use of the LOP technology: Contents Engineering workflow yesterday and today Engineering Workflow Question: Can we still afford the costs of this expenditure?</p> <p>The answer of PROLIST: No.</p> <p>We want to reduce engineering and transaction costs for procurement and sales in the area of process control technology.</p> <p>To achieve this objective we need international standards concerning LOP technology as well as processes with standardized workflows using XML.</p> <p>The most important precondition for achieving all of the benefits for process control equipment on the user side is to have a CAE system with an implemented NE 100 interface</p>	

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		<p>Note: Nobody who uses LOPs needs to know how the LOPs are structured. He/she merely requires an appropriate tool.</p> <p>NE 100 and its international standardization PROLIST INTERNATIONAL creates LOPs for process control equipment and publishes them in the NAMUR recommendation NE 100</p> <p>The contents of NE 100 have been channeled into an international standardization process.</p> <p>CAE relevant data for implementation of the NE 100 Automatic transfer of description and designation of the terminals from the LOP to the loop sheet</p> <p>Generation of the intrinsic safety confirmation document What does one need in a CAE system for implementing the NE 100 interface</p> <p>Review of Key Points We have shown how through the use of the LOP technology the engineering process can be simplified, the plant documentation quality can be raised and the costs in engineering and procurement can be reduced</p> <p>Major benefits: simple integration of process control equipment data in one's own CAE system avoidance of expensive, inflexible and error-prone manual data input</p> <p>The key benefits has been proven: Simplifying the engineering process Raising the plant documentation quality Reducing the costs in engineering and procurement</p> <p><i>One important condition is that all documents in the form of a transmission files, for example, should be capable of being exported from and imported to the system. It should also be possible to import CAE-relevant data such as terminal designations. The CAE systems should be capable of automatically accepting the master data of a new device type. Another important factor is the ability to compare the technical device data from several offers in the same CAE system.</i></p>	

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9	Presentation	<p>ISA Instrument Specification Forms Jim Federlein, P.E. Automation Consulting Engineer ISA Training Course Instructor Chair, ISA20 and ISA105 US Expert, IEC SC65E WG2</p> <p>Three Distinct Versions of ISA Specification Forms</p> <ul style="list-style-type: none"> • Original ISA-20 forms • An industry implementation of the ISA-20 forms • ISA TR-20 forms <p>Original ISA-20 Specification Forms</p> <ul style="list-style-type: none"> • First published in 1981 • Developed for manual data entry • Updated to Excel in 1998 • Still used in many applications, but limited by the number of forms – 26. • Contains “instructions” for data fields on forms <p>An Industry Implementation of the ISA-20 Forms</p> <ul style="list-style-type: none"> • 2007 package extends ISA-20 forms to 73 instrument types • Developed by users at a major pharmaceuticals company • Implemented in Excel, readily adaptable to many process industry operations <p>ISA TR-20 Forms</p> <ul style="list-style-type: none"> • Series of forms developed by the ISA20 committee. • First set of TR-20 forms published in 2001 • Available from ISA in Word format • Currently 76 forms available - includes operating parameter forms and device specification forms • Uses “pick lists” of data rather than instructions • Current ISA TR-20 Operating Parameter Forms include: <ul style="list-style-type: none"> ○ Analysis Device ○ Analysis Device Composition or Property ○ Valve or Regulator Device ○ Flow Device ○ Level Device ○ Pressure or Differential Pressure Device ○ Pressure Safety Device ○ Temperature Device ○ Weight or Force Device <p>Future ISA TR-20 Development</p> <ul style="list-style-type: none"> • ISA20 Committee to meet Wednesday, 2:00 – 3:00p at Reliant Center • Issues to be discussed include: 	

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		<ul style="list-style-type: none"> ○ Develop new forms? ○ Revise existing forms? ○ Other... ● IEC SC65E WG2 and ISA TR-20 ● IEC SC65E: Devices and integration in enterprise systems ● Working Group 2: Product properties & classification. Convenor: Dr. Peter Zgorzelski, Bayer Technology Services GmbH ● Electronic product data exchange based on previous Prolist/NAMUR work ● Draws heavily on ISA TR-20 forms in development of List of Properties <p>ISA-20 and ISA-TR20 Information</p> <ul style="list-style-type: none"> ● ISA-20 and ISA-TR20 forms are featured in database software packages available from software partner Megaflex: www.megaflex.com. ● For information about the ISA20 committee or about the ISA-20 and TR-20 forms, contact: Charley Robinson ISA Standards crobinson@isa.org 1.919.990.9213 	
10	Presentation	<p>ISO 15926 & Vendor Interfaces – Duane Toavs, Director, Human Centered Design Institute</p> <p>Existing Tools</p> <ul style="list-style-type: none"> ● Intergraph's SmartPlant Instrumentation –Control Systems Engineering Automation System for Instrument engineering, procurement, construction and maintenance ● Fisher®Specification Manager & FIRSTVUE–Control valve sizing and specification program with Import/Export capabilities to SPI and DDP ● Rosemount Instrument Toolkit–Software for sizing and selecting instrumentation for flow, level, pressure, and temperature applications ● DeltaV®SPI Integration–Allows for the exchange of DCS I/O and instrument data between the SPI and the DeltaV Configuration Tools <p>History of Enter It Once Project</p> <ul style="list-style-type: none"> ● Nov 09 <ul style="list-style-type: none"> ○ Enter It Once Sold Internally ○ Workshop with Intergraph ○ Joined FIATECH ○ Fluor Interoperability Workshop ○ Complete Camelot Project ○ Workshop Dow, Bechtel, Fluor, Emerson 	

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		<ul style="list-style-type: none"> ○ Complete Avalon Project ○ Test Prototype • Jan 08 <p>Contractor Workflow –Enter It Once Program</p> <ul style="list-style-type: none"> • End User Project Deliverables - P&IDs, Loop Sheets, Cabinet Drawings, Instrument Index, Data Sheets, Etc. • EPC Main Contractor - Data Centric Model Uses SmartPlant Instrumentation From Intergraph • EPC Sub Contractor - TEF –“The Engineering Framework” Intergraph Terminology • Emerson Fisher RMT PSS Device manager - Enables electronic data exchange between Emerson divisions for configuring Plant Web features <p>Information Ambiguity & Compliance</p> <ul style="list-style-type: none"> • Ambiguity = Cost • Knowledge - Ambiguity between exchanging partners can require significant effort (labor) to remove • Information - The higher the ambiguity, the higher the cost to implement effective and efficient data exchanges <ul style="list-style-type: none"> • Ambiguity Greatest <ul style="list-style-type: none"> ○ Comma Delimited File ○ XMpLant Schema Implementation ○ iRING1.0 Implementation • Least Ambiguity <p>Improve Your Interoperability</p> <ul style="list-style-type: none"> • Start with ISO 15926! - ISO 15926 is a standard for interoperability and the integration of lifecycle information • The iRING in your Company - Information infrastructure for both internal and external interoperability <p>ISO 15926 “Parts” Analogy</p> <ul style="list-style-type: none"> • iRING <ul style="list-style-type: none"> ○ Part 2 - Data Model - Natural Language Grammar ○ Part 4 - Reference Data - Dictionary &Thesaurus ○ Part 7 - Templates - Phrase, Sentence, Paragraph, Verse, Rhyme, Lyric ○ Part 8 - RDF/OWL - Paper, Book, Website ○ Part 9 - Façades - “Reading” 	
11	Presentation	SmartPlant Instrumentation Roadmap Alex Koifman, Intergraph	

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		<p>SmartPlant Instrumentation Product Roadmap Agenda</p> <ul style="list-style-type: none"> • Industry and product challenges • v.2007 -Meeting project execution and plant challenges • v.2009 -Quality and integration • V.2012 -Taking on engineering and integration • Major initiatives under consideration • External validation and calculation mechanism <p>Industry and product challenges</p> <ul style="list-style-type: none"> • Prior to summer 2008 –unprecedented industry boom followed by the energy business contraction • SmartPlant Enterprise uptake is shifting customer and Intergraph focus from individual design tool functionality to integrated workflows • Cost structure and savings drive project and operating facilities IT strategies in opposite directions affecting upgrades; operating facilities cycle is extending to 3 to 5 years per version, encouraging companies to leap-frog versions. • SPI product strategy is to find the balance between short term business objectives and long term initiatives <p>2007 – Where are we</p> <p>Major release</p> <ul style="list-style-type: none"> • Broadly used by the new customers and for many new projects • Most deployments in Europe, Asia and South America <p>Service packs</p> <p>SP7 is planned for H1 2010 as a combination of Hot fixes from SP6</p> <p>Hot fixes</p> <ul style="list-style-type: none"> • Released on scheduled as needed basis every few weeks • Latest Hot fixes available on eCustomer Web page <p>Pre v.2007</p> <ul style="list-style-type: none"> • Last v.7 service pack in H1 2010 –a round up of the hot fixes. <p>2007 –Productivity enhancements in progress</p> <ul style="list-style-type: none"> • Few of the functional enhancements in v.2007 SP's include: <ul style="list-style-type: none"> ○ Bi-directional Emerson Delta V interface, change tag classes between Fieldbus and conventional, Support Office 2007, support AutoCAD 2007 and 2008, Fieldbus data on Profibus PA, replace third-party PDF generation tools with internal library, support Vista OS, many enhancements to Calibration module and Fluke calibration interface, default browser view persistence, typical tags 	

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		<p>support Fieldbus and soft tags, reduce calls to .INI file, updated documentation delivered in each SP, Panel-Strip as multi-strip reports, cross-form browsers and so on.</p> <ul style="list-style-type: none"> • Integration enhancements in v.2007 SP's include: <ul style="list-style-type: none"> ○ View file format selection; DDP for SP3D: units of measure for dimensions, status and library extension, improved To Do List, etc. <p>2009 –Reliability, integration, operations</p> <ul style="list-style-type: none"> • Reliability: Focus on improving initial release quality, upgrade, comparative performance testing • Integration: Working on Inter-Company Collaboration (ICC), extending ability to publish SPI data to SPF and on to other tools • Operations: Streamlining and complementing As Build (O/O) domain operations • Content: New instrument specification library with 90+ forms • Continued process: Expect continued enhancements also within 2009 release • Planned release date: End of October 2009 <p>2009 –Release quality effort</p> <ul style="list-style-type: none"> • Quality focus <ul style="list-style-type: none"> ○ None or minimal regression vs. previous version ○ New functionality working correctly ○ Release postponed to maintain quality • Upgrade <ul style="list-style-type: none"> ○ Intergraph's commitment to support direct upgrade from late v.7 SP's to v.2009 bypassing v.2007 ○ Testing upgrade process on multiple customer databases ○ Testing post-upgrade operations <p>2009 –Release quality effort</p> <ul style="list-style-type: none"> • Performance testing • Retesting all macros post drawing generation transition to the Data Dictionary • Beta testing: Intergraph offices and few select customers (will start soon) <p>2009 –Integration and collaboration</p> <ul style="list-style-type: none"> • Continued work on Inter-Company Collaboration (ICC) extending engineering project execution from connected (Citrix) to disconnected work-share – brownfield projects, sub-contractors to main EPC's, converting from EPC to engineering project, etc.; Certain workflows will be supported in v.2009 and 2009 SP's 	

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		<ul style="list-style-type: none"> • Extending SPI data available for publish from Browsers <ul style="list-style-type: none"> –OOTB and custom browsers data will be available for publish, will require proper mapping on both sides. • Filtering of the scope of published data will allow better control of what data gets published <p>2009 –New Features</p> <ul style="list-style-type: none"> • As Built <ul style="list-style-type: none"> ○ Allow merge from projects into the As Built without requirement for exclusive database access ○ As Built certification additional priority focus ○ Roll-up of the v.7 and v.2007 changes into v.2009 • Adding content <ul style="list-style-type: none"> ○ New complimentary specification library in addition to existing specifications ○ Will also be available in v.2007 • External validation and calculations and more • Important: SPI v.2009 will use SPLM v2010 <p>2009 –Continuous enhancements</p> <ul style="list-style-type: none"> • Integration <ul style="list-style-type: none"> ○ Extend SPI electrical equipment model for improved workflows ○ Enhance adapter to handle relief valve line association logic ○ Make obtaining revision from SPF optional ○ Enable publish/retrieve of SPPID Control System Function to soft tag • Reporting <ul style="list-style-type: none"> ○ ESL Custom mode: updating symbols, improve default arrangement, split strip, alternative terminal sequencing, automated off-page connector reference to other loops ○ Scaling ESL generated drawings for output ○ (in v.2009) Add CAD macro functions and extend them to ESL generation • Composite specifications <ul style="list-style-type: none"> ○ Allow creating multiple specifications for a single tag -both single specifications and composite specifications –and possibly different spec forms for different P.D. cases ○ API to support composite specifications for access by SPEX and external applications • Vendor integration and extending content <ul style="list-style-type: none"> ○ Re-work NE100 interface (NE-100 will not be available in v.2009 initial release) ○ Extend DDP content –groups with the maintenance aspect • Domain Explorer <ul style="list-style-type: none"> ○ Add unit level cable and panel folders (also in 	

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		<p>v.2007)</p> <ul style="list-style-type: none"> • Additional enhancements • Improve loop layout assignment access rights management • Replace old symbol browser with the new to resolve symbol drag-and-drop save problems • Support cross-plant wiring • Each Hot Fix will be a full Setup directly applicable on the RTM • Provide command for disabling and enabling user login to domains • Additional UOM's including specific for nuclear industry • ..and there will be more including continuous quality improvement effort. <p>2012 –Infrastructure, engineering and collaboration</p> <ul style="list-style-type: none"> • Infrastructure <ul style="list-style-type: none"> ○ New platforms support (MSS2008, Oracle 11) ○ Complete transition to the Data Dictionary ○ Access rights management overhaul • Engineering functionality <ul style="list-style-type: none"> ○ Calculations (ISO 5167-2003), make process datasheets customizable • Integration • Project execution and collaboration through ICC enhancements • Attending the needs of pharmaceuticals, power (especially nuclear), mining and metals industries <p>SPI Major initiatives under consideration</p> <ul style="list-style-type: none"> • Addressing common I&E tasks • Supporting wireless technology • Using SmartPlant Engineering Manager (SPEM) • Extending KKS support –update shipped codes and make them editable • Navigation between schematic applications • Further enhancing DCS integration • Integration: Smarter and more flexible integration of SP PID data without additionally burdening P&ID design group, macro expansion and aligning instrument types across schematic applications. • Improve tag class change management • Browser Wizard • Develop Safety Instrument System (SIS) support • Continued Fluke automated calibrators enhancements • Integration with the SP Construction <p>Supporting wireless technology</p> <ul style="list-style-type: none"> • The technology is here: <ul style="list-style-type: none"> ○ WirelessHART approved September 2007 as extension of HART 	

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		<ul style="list-style-type: none"> ○ ISA100.11a approved on April 29,2009 ● Projects are coming and interest is shown by EPC's and owners ● SPI need to support design tools ● Phased approach likely <ul style="list-style-type: none"> ○ Identification of wireless capability (Instrument Index) ○ Specifying wireless device for procurement (Specifications) ○ Providing construction documents (Hook-ups, wiring and loops (?)) ○ Managing wireless configuration documentation –run time systems or plant design systems? <p>External functions –what is it</p> <ul style="list-style-type: none"> ● We want to open the application to allow SPI customers to add additional validation and functionality on top of what SPI provide OOTB, similar to the validation in SPPID. ● Use Rule Engine mechanism where rules are used to define what type of functionality is required and on what item type and properly to trigger it ● Customer will write code to implement this external function 	
12	Forum Topics	<p>SPI Import Module Workshop - discussion on getting a training session started on the SPI Import Module. Alex Koifman offered the SPI Import Module Workshop material from the Intergraph 2009 convention. OSI offered to provide an instructor. The task of finding a venue and scheduling the training remains</p> <p>CR Ranking using the Ranking Website - Members were reminded to enter their Change Requests (CR) on the TECHNICAL USER FORUM Change Request Ranking Website http://www.sptuf.com/</p> <p>Documenting wireless Instrument systems forum asked members to evaluate their methods of documenting wireless technology and pass them on to Intergraph for inclusion in SPI.</p> <p>SPI Owner Operator Workgroup - A meeting was held after the LTUF Meeting. Following are the minutes of that meeting:</p>	
13	Owner Operator Committee Meeting Minutes	<p>Houston LTUF Owner/Operator Committee 10/6/09 at ISA Expo</p> <p>Attendees: Aarash Badozzaman Pasadena Refining Rick Graham Exxon Mobil Bernadette Thornton Chevron</p>	

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		<p>Vic Lovuola Bayer Technology Services Greg Brueckner Bayer Technology Services Jim Federlein Bayer Technology Services</p> <p>Meeting Minutes</p> <p>The Owner/Operator committee was announced at the 10/6/09 Houston LTUF meeting at ISA Expo in Houston. Those at the LTUF meeting and interested in the committee were invited to remain after the LTUF meeting.</p> <p>Six people remained after the LTUF meeting to discuss owner/operator issues.</p> <p>The committee discussed issues related to Intergraph SPI that are of particular interest to owner/operators.. For this first meeting, it was decided to simply list the issues of concern to the owner/operators represented at the meeting. These issues included:</p> <ul style="list-style-type: none"> • Managing multiple as-built databases. • Use (and acceptance) of SPI by Maintenance and Operations. • Getting data from package vendors incorporated into As-built. • How is SPI being incorporated into owner/operator work flow? (One example is using SPI for mechanical equipment information and then sending that information to SAP). • Should SPI be able to handle heavy text-based specifications? • Migration of legacy information into SPI. • Management support of SPI. • Where does owner/operator find administrators who have sufficient time and training? <p>It was agreed that this was only a brief start for this committee. These minutes are to be distributed to all Houston LTUF members to determine the level of interest in an owner/operator committee to address issues such as those noted above.</p> <p>-</p>	
14	Close	<p>- Next meeting will be held on:</p> <p>- <u>February 11, 2010</u> <u>8:00 A.M. to 12:00 P.M.</u> <u>ConocoPhillips HQ</u> <u>600 N. Dairy Ashford</u> <u>Houston, TX</u></p> <p>- John Dressel closed meeting</p>	