

SmartPlant Instrumentation Technical User Forum P2C2 (Houston SPI TUF) Meeting	May 5, 2009 8:00 am The Shaw Group
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Attendees	35 Members in attendance 6 Online via Net Meetings	Copied To	LTUF Members
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Called By John Dressel	Prepared By Daniel Lopez
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Item	Topic	Notes	Action/Due
1	Call to Order	<ul style="list-style-type: none"> John Dressel called the meeting to order & welcomed user group to The Shaw Group Vicki Hutson, Welcome to The Shaw Group Inc. and gave a short safety orientation 	
2	Chairman's Notes	<p>Chairman's Notes and Upcoming Conferences John Dressel Currently being held:</p> <p>2009 Offshore Technology Conference May 4 - 7, 2009 Reliant Center Houston, TX</p> <p>Global LTUF to be held Sunday, prior to Convention. Intergraph 2009 June 15 - 18, 2009 Gaylord National Convention Center Washington, D.C.,</p> <p>Emerson has more dynamic interfaces than any other supplier, John Dressel will be making a presentation at this event regarding SPI and the interfaces. 2009 Emerson Exchange September 28 - October 2 Gaylord Palms Convention Center Orlando, Florida</p> <p>In the Fall meeting, ISA will embrace SPI much more than in the past. They have invited the Houston-LTUF to host our 3rd Quarter meeting at their forum. Also a Houston LTUF to establish a SPEC 200 Specification steering committee.</p> <p>ISA EXPO October 6 - 8, 2009 Reliant Center Houston, TX</p>	
3	Introductions	Introductions from all Attendees and those online attending the meeting with Webex were acknowledged, Dee Dee with Conoco in Borger Texas, Mich MacDonald, Michelle Syncrude Canada and Stephen Convens of Invensys.	
4	Minutes	Minutes of last meeting approved	
5	Shaw Group Presentations	Shaw Corporate Profile Shaw Energy & Chemicals Business Sectors & Technology E&C Scope of Services Shaw E&C Worldwide Locations E&C Workshares	

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		<ul style="list-style-type: none"> ● Business model since mid 90's <ul style="list-style-type: none"> • High Value Centers • Shared Resources ● Current E&C Workshares <ul style="list-style-type: none"> • Every major project • Many Proposals 3D Workshares <ul style="list-style-type: none"> • PDS & SP3D • Numerous Projects (EP, EPC, EPCM) • All E&C offices • Environment <ul style="list-style-type: none"> ○ Segregated ○ Hosted/Remote Connect (Citrix) ○ Replicated 2D Workshares <ul style="list-style-type: none"> • SPPID, SPI, SPEL • Numerous Projects (EP, EPC, EPCM) • Environment <ul style="list-style-type: none"> ○ Replicated Workshares ○ Hosted/Remote Connect (Citrix) Smart Plant Instrumentation <ul style="list-style-type: none"> • SPPID, SPI, SPEL • 9 yr history (starting with v4 INtools) • Use on all applicable projects • Use in all business Units <ul style="list-style-type: none"> ○ E&C ○ Fossil Power ○ Nuclear Current Utilization <ul style="list-style-type: none"> • 32 Current Projects <ul style="list-style-type: none"> ○ Full function ○ Wiring Only ○ Spec Sheets only ○ Process data only ○ 150+ users • Major office include Denver, Houston, Charlotte, Cambridge, Stoughton, Toronto, Mumbai Smart Plant Suite <ul style="list-style-type: none"> • Extensive testing of Smart Plant Foundation and interaction with the other Smart Plant programs • Out of the box testing of bi-directional data transfer between SPI, SPPID and SPEL through SPF • Starting to use all of the Smart Plant programs on various projects Future Plans <ul style="list-style-type: none"> • Centralizing all projects out of Houston with Citrix connections • Better work share • Easier support for limited staff • Utilizing on all projects where applicable regardless if deliverable • Further standardization of business unit work flows 	
6	SPI Enhanced	John Dressel delivered a presentation on SPI Enhanced Report Implementation –	

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	Report Implementation	<ul style="list-style-type: none"> • Deliverable Specification Definitions SMA's General Preference Setting Symbol / Title Block Citrix Sets one environment. • Location Map or Universal Locators Titleblock, Template layout & Symbol Gene Haney suggested arial Narrow font for Enhanced Smart Loops. • The Report Management Dialog overview he noted that Domain Admin Configurable you may shutdown or take access right away as needed say in the As Built level. • Wiring list or non-list, you may use filters. • Setting filters affect the way the any of these options are implemented. • Revision per document /per item JB or loop Top button for Title /Block Box. • Customize the Title Block Save document data and specify where you wish to save. • If you check Archive option it will increase the size of the saved DB. You may wish to save to an external zip file, etc... 	
7	SPI Enhanced Report Template Modifications	<p>SPI Enhanced Report Template Modifications also delivered by John Dressel</p> <ul style="list-style-type: none"> • Templates are your Dwg Background. You may create your own custom or manipulate and existing Normal SMA template. See presentation however basic procedure as follows: • Make a backup. • Do not copy between (Loop; Panel Strip, FieldBus; etc) folders, each has specific characteristics and functionality. • Test by creating a drawing with the modified SMA fill. Generate to see if modification shows up in Enhanced report. • Background Tabs not used should be removed. The tab at the far left will be the default. • Anchor your size i.e. Bwide, Atall, etc... • Set new background sheet name to be Background1. • Size Name is configured as Bwide this is case sensitive • Copy macros and graphics • Paste the frame in • Scale to proper paper size • Edit individual elements • Logo's should be 3x1 aspect ratio pixel resolution • Add macros or Revision columns • Copy and/or modify textbox properties • Default – Delete old macros • See list of applicable macros e.g. rev_chk_by use correct syntax • There is a new Smart Text button do not use ADD MACRO • Group vertical lines to frame border was added by Bechtel 	
8	SPI Enhanced Report Symbol Modifications	<p>SPI Enhanced Report Symbol Modifications John Dressel</p> <p>Customizing existing Symbols:</p> <ul style="list-style-type: none"> • Locate and open the file DcsDetail.sym. • NOTE: Sometimes locating the correct symbol file can be difficult. If you are unsure of the file you need, contact others that can assist you. You can NOT open the Symbol Editor if 	

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		<p>Enhanced Report Utility is open.</p> <ul style="list-style-type: none"> • Highlight the text that you wish to move. (Notice that there are other fields that highlighted also. These are the Macro's that SPI will propagate when ESR drawings are created. • Before starting, locate and make a backup copy of the .sym Symbol file that you are going to modify. They can be found in: <SPI root directory>/RAD/Symbols • Additional Symbol libraries can be found in: <SPI root directory>/RAD/Symbols/ "Custom" and "IT" folders • Locate and open the file DcsDetail.sym. • Highlight the text that you wish to move. (Notice that there are other fields that highlighted also. These are the Macro's that SPI will propagate when ESR drawings are created. • Once you have selected the items you wish to move, simply move them to their new location. • After they are moved, un-highlight the items by clicking an area outside of the object. • Now select save from the drop down menu at the top and close the Symbol Editor. • Check your work. Run the appropriate Enhanced Report to verify that you modified symbol is correct. <p>Creating new Symbols:</p> <ul style="list-style-type: none"> • In this example we are going to create a new Ground symbol to add to the last terminal in the below image. • All Symbols have an "anchor point". This is a point that determines where the symbol will be placed on the drawing. When creating new symbols, try to use existing symbols to help build the new symbol. This is because you can use the existing anchor point to help determine where the new symbol will be created. • In this example, we will use the existing symbol Term.sym as the go by. As always, create a copy of the file you are going to work with, by opening it and saving it as a new file. Lastly, close the Symbol Editor. • Creating New Symbols is NOT the same as modifying Symbols. To create new Symbols, you will need to have SPI and the Wiring module open. You then select Tools/Symbol Editor. • Once the Symbol Editor is open, you can then open the file you copied previously. Go to File/open, navigate to the correct folder and select the file you copied earlier. • Once the file is open, notice that there is a circle with a crosshair. This is the anchor point of the symbol. • Using the Draw functions from the Symbol Editor, start drawing the new ground symbol. • Assemble the new symbol and place it on the terminal. • Now Delete the terminal by selecting the lines and either hitting delete on your keyboard or right clicking and selecting delete. • Once the anchor point has been selected a Save As dialog box will appear. Select the file path and name that you wish to save your new Symbol. • After saving your new Symbol, you will need to Assign the Item Type. Select Actions/Assign Item Type. • Create a new Terminal type in order to use the new Symbol. 	

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		<p>From the Wiring module, select Table/Terminal/Types.</p> <ul style="list-style-type: none"> • Select New and type in the name of the new Symbol. This name must match the name of the symbol file EXACTLY. • Assign the new Terminal type by selecting the Terminal and right clicking fro properties. • Test the new Symbol by running the appropriate Enhanced Report. 	
9	SPI - Better looking Enhanced SmartLoops	<p>SPI - Better looking Enhanced SmartLoops Gene Haney, CB&I</p> <ul style="list-style-type: none"> • Legibility has been the number one complaint with Enhanced SmartLoops. • Difficult to read full-size. • Impossible to read if reduced. • Increasing font size provides only marginal benefit. • Construction complained that they could not read the loop drawings. • They were using 8-1/2 x 11 reductions of an 11 x 17 ESL drawing. • No matter, we'll find a way to take care of it! • Here's the remedy . . . • The method used was simple, certainly not original . . . • Scale the titleblock down. • he loop graphics remain the same. • When printed on an 11x17 in the "Print to Fit" mode, the loop is significantly more legible. • Select and launch the Enhanced Report Utility program. • From the "File" drop down menu, select "Open". • Drill down to the "RAD" directory and select the "Template" folder. • From the "Templates" folder, select "Types". • Under "Types", select the "loop" folder. • From the "loop" folder, select the "Normal.sma" file. • The "Normal.sma" file will open displaying the current "Working" sheet. • Select the "View" drop-down menu and change the setting to "Background Sheets". • For 11x17 loop drawings, select the "Bwide" sheet. • From the "File" drop-down menu, select "Sheet Setup". • In the "Sheet Setup" window, in the "Paper Units" section, the set the "Precision" pick list to "0.001". • In the "Sheet Size" section, select the "Custom" radio button. • Set the width to "11.166"and the height to "7.225". This represents approximately 2/3 of the full 11x17 landscape presentation. • Select "OK" to save these settings and close the "Sheet Setup" window. • The modifications made to the Background Sheet "Bwide" are now displayed. • From the "Actions" drop-down menu, choose "Scale". (If Scale does not exist - check presentation on how to create) • In the "Scale factor" window type "0.65". • The 'scaled down' titleblock entities will be displayed in a different color and can be moved as a whole to the desired location on the background. • From the "View" drop down menu, select "Working Sheets". 	

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		<ul style="list-style-type: none"> • From the "File" drop-down menu, select "Sheet Setup". • In the "Sheet Setup" window, select the "Background" tab. • In the "Background Sheet" pull-down menu, select "Bwide". • Click the "OK" button. • Save your modifications and close the Enhanced Report Utility program. • Launch the program SmartPlant Instrumentation. • From the "File" drop-down menu, select "Preferences". • Select "Enhanced Reports" • Under "Enhanced Reports" select "Enhanced SmartLoop". • Under "Enhanced SmartLoop" select "File Locations" • Populate the "Template for default layout" window with the path to the Normal.sma file just edited. 	
10	Status of SmartPlant Instrumentation	<p>Status of SmartPlant Instrumentation Alex Koifman, Intergraph</p> <ul style="list-style-type: none"> • Today's presentation <ul style="list-style-type: none"> ○ SmartPlant Instrumentation v.2007 (v.8) ○ 2007 SP6 ○ 2007 SP7 ○ SPI v.7 ○ SmartPlant Instrumentation v.2009 (v.9) ○ 2009 Sp1 and next major release ○ Intergraph 2009 conference • SmartPlant Instrumentation v.2007 <ul style="list-style-type: none"> ○ Current status - V.2007 SP6 ○ Released January 26, 2009 ○ Integration: (publish PDF files generation) ○ Integration & DDP: instrument dimensions published in mm or in ○ Integration: Retrieve and publish process data w/o process case defined ○ Specs & Browsers: Cross-form specification browsers ○ KKS: Component classification code is not mandatory ○ Calibration: 7 Fluke interface enhancements (single point instruments, create history archive during upload of the results, automatically create test equipment, support RTD types and more) ○ DCS interfaces: Default channel attribute (DeltaV) ○ CAD Loops: Support AutoCAD 2008 (also in v.7 and v.2009) ○ I18N/L10N: Updated French translation ○ Need to pay attention to the Open items in the README, especially for O/O domain type users ○ Latest Hot fix HF3 (to be released shortly) ○ v.2007SP7, v.7 SP10 and Hot Fixes ○ V.7 SP10 planned for Q1 2010 (tentatively) ○ Hot fixes roll-up ○ Last SP for v.7 ○ Will release HF's on as needed evaluation per specific project/client requests ○ V.2007 SP7 planned for early 2010 (tentatively) and will include only roll-up of hot fixes issued for 2007 SP6. 	

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		<ul style="list-style-type: none"> ○ Hot Fixes ○ Effective February 25, 2009 latest HF's for v.2007 SP3 and later will be immediately available for all customer ● Plans for 2009 <ul style="list-style-type: none"> ● Release target date – end of October 2009. ● Emphasis is on upgrade and enhancing user experience compared vs. 2007 ● Noticeable items: <ul style="list-style-type: none"> ● Allow adding to the line piping data ● Publish Fieldbus tags works correctly (also in 2007 SP6 HF2) ● Allow selecting flow conditions (@flow, @standard, @normal) for instrument and DCS ranges ● Plans for 2009 – continued ● Noticeable items (continued): <ul style="list-style-type: none"> ● Enable merging entities from the project to As Build in non-exclusive mode ● Improve database security and control including improved encryption ● User defined functions (substrings, left, right, etc) on ESL macros as exists in CAD ● Rule Manager: Validation of condition or populate data via call to external application ● Discontinue some obsolete functionality ● Noticeable items (continued): <ul style="list-style-type: none"> ● ICC Improvements supporting off-line engineering project execution when host is As Built domain (for initial customer reviews) ● Change the database type in Oracle to allow better Unicode management; will improve local language storage (Russian, Japanese, etc) and special characters use including UOM's and resolve internationalization issues ● Planned discontinued functionality ● Items planned to be discontinued in v.2009: <ul style="list-style-type: none"> ● Functional Requirements specifications ● Old DCS vendor catalogs delivered through IN_CTLOG and enabled in the Admin. ● Importing from XML files ● Unused and obsolete Telecom reports and supporting tables ● Support for MicroStation 95 and PowerDraft ● Prepare the source file in the Import module ● Spare parts table from supplied database (functionality discontinued in v.7) ● Remove DCS Card with plug in Reference Explorer ● v.2009 SP1 ● V.2009 SP1 is planned for end of Q1 2010 and will include both CR's and TR's: <ul style="list-style-type: none"> ● Reduce number of outstanding customer TR's ● Optional (instead of mandatory) obtain revision from SPF when operating in the integrated environment ● Retrieve PIDControlFunction from SPPID into SPI as Soft tags 	

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		<ul style="list-style-type: none"> • Retrieve upstream line association for relief valve from SPPID in integrated environment • Several ESL enhancements (assign layout to loop access rights, scale drawing, save block location in the Hook-up layout, custom loop generation improvements: Off-line Page connector reference to other loops, sequencing of terminals, interactive update of the custom symbols, split terminal strip) • Re-work of the NE-100 interface • Add Unit level folders for cables and panels • Next major release <ul style="list-style-type: none"> ○ Tentative planned release date – H2 2011 ○ Is in early planning stages to include: ○ Continued emphasis on reducing outstanding issues ○ Business (integration, new instrumentation technology) ○ SPI technology and infrastructure ○ Customer input (LTUF's) ○ Next major release considered features ○ Support wireless technology ○ Control and logic diagrams ○ Support ISO-5167-2003 for flow-meter sizing ○ Allow enabling and disabling user login into domain for maintenance ○ Integration with third-party (PAS, DCS vendors, Fluke, NE-100, etc) ○ Common navigation between schematic tools (SPPID, SPI and SPEL) ○ Improved support for SmartPlant Engineering Manager ○ ... and more items are being considered. • Intergraph 2009 conference <ul style="list-style-type: none"> ○ Join us at Intergraph 2009 ○ Intergraph's International Users' Conference ○ Washington, D.C., USA ○ June 15 - 18, 2009 ○ www.intergraph2009.com 	
11	CR Ranking	Change Request Ranking Website Survey by all Attendees	
12	Forum Topics	<ul style="list-style-type: none"> • ISA TR20 Forms for SPI Create workgroup • Houston LTUF Workshops Create workgroup 	
13	Close Meeting	<ul style="list-style-type: none"> • The next meeting will be in August at: Endress+Hauser In La Porte, TX just off Highway 225 • John Dressel closed meeting 	