

SmartPlant Instrumentation Technical User Forum P2C2 (Houston SPI TUF) Meeting	February 10, 2009 8:00 am Jacobs Engineering
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Attendees	45 Members in attendance 4 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	Call to Order	<ul style="list-style-type: none"> - John Dressel called the meeting to order & welcomed user group to Jacobs - John Bolmanski welcomed everyone to Jacobs and gave a short safety orientation 	
2	Chairman's Notes	<ul style="list-style-type: none"> - Thanks to members and guests for attending this meeting of the Houston SPI LTUF - Theme SPI Spec Sheets - Upcoming Conferences were noted where SPI would have some interface or involvement in Technical Content. <ul style="list-style-type: none"> Daratechplant February 11 - 12, 2009 Hilton Americas-Houston 1600 Lamar, Houston, TX 2009 Offshore Technology Conference May 4 - 7, 2009 Reliant Center Houston, TX Intergraph 2009 June 15 - 18, 2009 Gaylord National Convention Center Washington, D.C., 2009 Emerson Exchange September 28 - October 2 Gaylord Palms Convention Center Orlando, Florida ISA EXPO October 6 - 8, 2009 Reliant Center Houston, TX 	
3	Introductions	<ul style="list-style-type: none"> - Introductions by all in attendance .Each member stood and introduced themselves and spoke of their utilization of SPI. - Welcomed several members who connected into meeting with Webex NetMeeting. 	
4	Minutes	<ul style="list-style-type: none"> - Minutes of last meeting approved 	
5	Elections	<ul style="list-style-type: none"> - Election of Officers for the Houston SPI LTUF – the following officers were nominated and elected: - Chairman: John Dressel, Fluor - Vice Chair: Vicki Hutson, The Shaw Group - Secretary: Daniel Lopez, Foster Wheeler 	

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6	Status of SmartPlant Instrumentation	<p>Alex Koifman, Intergraph</p> <p>SmartPlant Instrumentation Vision Improve and enhance support for integrated engineering work processes Provide advanced and reliable engineering and operations data management solutions for operating plants Respond to discipline specific business driven needs of the engineering community Extend SPI reach from traditional petrochemical industry to power, including nuclear, pharmaceuticals and mining Continue to improve reliability and usability of the application</p> <p>V2007.5 Planned release date June 5/12, 2008 Support PDF generation without Adobe or Ghostscript using internal library Create specification browsers with instruments across multiple forms Domain Explorer issues related to moving or replicating large data sets resolved Typical Loop handles Foundation Fieldbus and Soft Tag classes in addition to conventional tags Allow changing tag class from Foundation Fieldbus to conventional Significant changes to the Calibration module</p> <p>V2007.4 Released January 20, 2008 Integration ToDoList enhancements Support for Vista Business client, Office 2007 and Microsoft IE 7 Additional multi-strip wiring ESL report for complete wiring from selected panel Extension to the DDP library with new groups supported by SP3D Multiple additional fields in the specification module -480 numeric and 100 long (255 characters) fields</p> <p>Several additional features were added in 2007 in v.2007 SP1, SP2 and SP3</p> <p>V2008 (Version 9) –Scheduled release: Q2, 2009 Support publishing all SPI engineering documents to integrated engineering environment Provide ability to filter the content of the Instrument Index and Electrical Index (for SPEL interface) Browsers Support volumetric flow condition selection in the Instrument, Calibrated and DCS ranges across the application Provide complete Oracle Unicode database support New specifications library Improved database security and control capabilities Enable merging project entities into As Build without the need for exclusive use of the domain Support Citrix Presentation Server 4.5</p>	

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7	How to Use a User-Defined View for a Spec Form:	<p>Gene Haney, CB&I</p> <p>User-Defined Views can be created for the following database entities:</p> <ul style="list-style-type: none"> • Instruments • Cables • Panels • Loops • Wiring Equipment • Hook-Up Items <p>Requirements for Creating User-Defined Views</p> <ul style="list-style-type: none"> • The respective ID column must be included in the view. <ul style="list-style-type: none"> • Example: If a view is to be used for instrument specifications it must contain the CMPNT_ID column. • The view must include matching rows of the table in which the ID is the primary key. <ul style="list-style-type: none"> • Example: If a view is to be used for instrument specifications it must contain matching rows of the COMPONENT table. <p>How to Create a User-Defined View</p> <ul style="list-style-type: none"> • The view must be created external to SPI. (Infomaker, Internal Setup, SQL Plus, SQL Worksheet, etc.) • Grants should be given to the admin schema and the domain schema view users. <p>Sample SQL Script to Create User-Defined View</p> <pre> DROP VIEW test.view_pid_number; CREATE VIEW test.view_pid_number AS SELECT a.cmpnt_id, b.dwg_name "PID_DWG_NUMBER" FROM test.component a, test.drawing b WHERE a.dwg_id = b.dwg_id; GRANT SELECT on test.view_pid_number to test_view; GRANT SELECT on test.view_pid_number to in_dbamn; </pre> <p>Executing the Script Using Internal Setup Utility</p> <ol style="list-style-type: none"> 1. Log in as the domain schema user. 2. Run the script. 3. Test the view. Execute a SQL select "count (*)" to confirm that the view is working properly. Make sure that the number of rows in the view equal the number of rows in the respective ID table. <p>Adding the User-Defined View to the SPI Domain</p> <ol style="list-style-type: none"> 1. Log in as Domain Administrator. 2. Select the "DBA" drop-down menu. 3. Chose the "User-Defined Database Views" option. 4. The "Add Database View" window opens, listing all qualified views that have been added to the database. 5. Select the View and press "Apply". 6. Log in to a SPI session and open the Spec Module. 7. Under "Actions" select "Specification Views". 8. Select "New" and add your database view to the list. <p>Your User-Defined View is now available for use in instrument specification forms</p>	

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8	Instrumentation Forms: An ISA20 Implementation	<p>Bret Fisk, Lilly</p> <ol style="list-style-type: none"> 1. History of Spec Form Development <ul style="list-style-type: none"> 80's <ul style="list-style-type: none"> • Manually filling out ISA20 Spec forms • Covered general categories (Flow, Temp, Valves, Trans....) • Labor intensive • Excessive data fields on forms • Many applications without forms Mid 80's – 1990's <ul style="list-style-type: none"> • "Free-form" specs using remark fields in a database (VAX) • "Multi-Item Specificatons" (one spec for a list of instruments) Late 90's -- Present <ul style="list-style-type: none"> • EPC ACCESS Implementation of "ISA20 like" specifications • "Multi-Item Specificatons" (one spec for a list of instruments) • Field pick-lists for data integrity <ol style="list-style-type: none"> 2. How Publication was Developed <ul style="list-style-type: none"> • Several Months of Weekly Webex working sessions with: <ul style="list-style-type: none"> • Eli Lilly & Company <ul style="list-style-type: none"> – Bret A. Fisk, P.E. – Vince P. Salupo, P.E. – Wm. Glenn Blackwelder, P.E. • Intergraph Corporation <ul style="list-style-type: none"> – Alex Koifman – Ron Williams • Jacobs Engineering <ul style="list-style-type: none"> – Brett Boyd – Michael A. Gordon, P.E. – Craig Linhardt, P.E. • Process Automation Sourcing Solutions, Indianapolis, IN • Fluor Corporation, SC, Control Systems Department 3. Features <ul style="list-style-type: none"> • Implementation of ISA20 tailored for the pharma industry (& useful for other industries) • Single or "Multi-Item Specificatons" (1 spec for a list of instruments) • Additional pick-lists for efficient data entry & data integrity • 73 Forms in Excel, but could be implemented in other databases (eg. ACCESS or SmartPlant® Instrumentation) • Blank fields in each section for the flexibility • Footer for revision & project management data 4. Advantages <p>As with ISA-20, use of these forms by users and manufacturers offers the following advantages:</p> <ul style="list-style-type: none"> – Assists in preparation of complete specifications by listing and providing space for all principal descriptive options – Promotes uniform terminology across the pharmaceutical industry and similar applications, streamlining: <ul style="list-style-type: none"> ▪ interdepartmental and cross-functional communications ▪ communications between companies – Promotes uniform application development of instrument 	

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		<p>design tools.</p> <ul style="list-style-type: none"> - Facilitates quoting, purchasing, receiving, accounting and ordering procedures by uniform display of information - Provides a useful permanent record and means for checking the installation - Improves efficiency from the initial concept to the final installation 	
9	SPI External and Unique Spec Sheets	<p>John Dressel, Fluor</p> <p>Many SPI users need specs that can be maintained outside of SPI or have special specs that need referenced inside SPI</p> <ul style="list-style-type: none"> ◆ Formats that can be used to maintain Specs Outside if SPI: <ul style="list-style-type: none"> - Excel XLS format - Adobe Editable PDF files - CAD DXF Drawing Files - IEE ISF External Editor files - OCR scanned documents in Word format ◆ Unique specs that can be produced or referenced in SPI: <ul style="list-style-type: none"> - Narrative Specifications with SPI cover sheets - Non-Tagged item SPI Specs - Functional Requirement Specification - Special System Specs developed in SPI - Foreign Language SPI Spec Libraries ◆ Issues with External Excel Spec Sheets <ul style="list-style-type: none"> - Spec sheets can be copied, renamed and new specs can be created. - Tags in a combined Excel file cannot be removed. - Drop down data windows must be modified with Visual Basic or Cut to convert to cell. - Data strings are always justified to the left most column and alignment can be a problem. - Data cannot be imported back into SPI. - Saving a spec a second time sheet will create a file with a different filename. - Notes sheets and Multi-Item sheets have no title box. - Large file sizes (on the order of .7 to 1 meg each) - The Notes Field on an Excel Instrument Specification has a maximum of 255 Characters. - Text fields sharing the same graphic cell with a Variable will not export correctly to Excel. - Misaligned graphics on the SmartPlant Form results in poorly defined rows and columns in the Save as Excel File <p>SPI Page Editor Vs InfoMaker</p> <ul style="list-style-type: none"> ◆ SPI Page Editor for aligning Export to Excel Specs <ul style="list-style-type: none"> - - Elements have to be edited one at a time - + Comes with SPI and can do most of the alignment required - + Column list shows only Fields on query that are not already used on the spec. 	

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		<ul style="list-style-type: none"> ◆ Using InfoMaker for aligning Export to Excel Specs <ul style="list-style-type: none"> - - Requires separate software and skilled user. - + You can select multiple elements and change their properties in mass. - + The properties dialog box allows drop down lists and radio buttons to be edited. <p>Instrument Spec to PDF</p> <ul style="list-style-type: none"> ◆ Standard Instrument Spec Sheet deliverables are Adobe Acrobat PDF files <ul style="list-style-type: none"> - Deliverables are electronic file format - The content of the PDF spec cannot be modified - Compatible with Projects Online and other Document Management systems - File can be emailed and viewed by most web browsers and Adobe Reader - Multiple methods of generation: <ul style="list-style-type: none"> • Adobe Acrobat Writer • Adobe Acrobat Distiller • Print to PDF (< 2007) • SmartPlant PDF Converter <p>Creation of Editable OCR files</p> <ul style="list-style-type: none"> ◆ To convert a PDF file to editable text, you can use Adobe Paper Capture or OmniPage, Optical Character Recognition (OCR) or other programs that convert scanned pages into text and graphics files in Editable PDF or DOC formats. ◆ Problems with Editable OCR files: <ul style="list-style-type: none"> - Must be a scanned image. Files created with "Print to PDF" will not convert. - A single "Suspect Character" on a line will leave the entire line as graphics. Process UOM's do not convert well. - Low resolution scans or copier copied graphic files contain more "Suspect Characters" with less editable data. - Blank data fields leave space only on finished document and adding new text in form is difficult. - To check the quality of the finished document you must attempt to edit every data field on every line of every spec. <p>Creation of Editable DXF files</p> <ul style="list-style-type: none"> ◆ Save as DXF will create an editable external CAD file that can be opened and edited with AutoCAD, Microstation or SmartSketch. ◆ Problems with Save as DXF files: <ul style="list-style-type: none"> - DXF files must be imported into CAD as DWG, DGN or IGR. - CAD programs will have to be configured for small font size. - All data fields are saved as "Left Justified" - CAD Files are single layer with all text and graphics on the same layer. - Each page of a multi-page spec must be saved separately. 	

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		<ul style="list-style-type: none"> - Multi-item specs must be converted to single page specs to be saved as DXF files. - End users must use CAD programs to edit and maintain the files. <p>Using INtools External Editor</p> <ul style="list-style-type: none"> ◆ The INtools External Editor is a freeware program that allows the user to edit information on INtools Spec Sheets and print or import the changes back into INtools. ◆ INtools External Editor issues: <ul style="list-style-type: none"> - Uses ISF proprietary formatted files that must originate in SPI or INtools. - Revision and Tag Number fields cannot be changed - Each data field must be edited individually (No Copy & Paste from form to form) - No title box on second sheet of multi-item spec sheet. - New Manufactures and Models may be added to the form. <p>Unique SmartPlant Instrumentation Specs</p> <ul style="list-style-type: none"> ◆ External Narrative Specs with SPI cover sheets <ul style="list-style-type: none"> - External Specification can be PIP, ISA, Word or other narrative Spec - Create SPI Spec Form with Basic Loop and Tag Data - Use SPI Spec as Cover Sheet to the External Specification - Control page numbering so SPI Spec is page 1 and the Base Spec begins on Page 2 - The Combined Specs may be issued as one PFD file ◆ Non-Tagged item SmartPlant Instrumentation Specs <ul style="list-style-type: none"> - General Prerequisites <ul style="list-style-type: none"> ◆ In Form Editor, you must restore a form for the item type you want to assign with the specification. - Cable Spec Generation Prerequisite <ul style="list-style-type: none"> ◆ In Reference Explorer, create a reference cable. - Panel Spec Generation Prerequisite <ul style="list-style-type: none"> ◆ In Reference Explorer, create a reference panel. - Wiring Equipment Generation Prerequisite <ul style="list-style-type: none"> ◆ In Reference Explorer, create an I/O card, I/O termination, fieldbus brick, or any other user-defined wiring equipment. - Hook-Up Item Spec Generation Prerequisite <ul style="list-style-type: none"> ◆ In Reference Explorer, create a hook-up item and assign it to an item library. ◆ Functional Requirement Specification <ul style="list-style-type: none"> - A functional requirement specification is a specification that consists of the main page with the loop number data, individual pages associated with the loop tags, and the note page, which is created automatically and refers to the 	

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		<p>loop number only.</p> <ul style="list-style-type: none"> ◆ SPI Specification forms be created for Special Instrument Systems <ul style="list-style-type: none"> - Fire and Gas Systems - Machinery Monitoring - Asset Monitoring Systems - Wireless Instrument Networks - Video Surveillance Systems - Tank Gauging Systems - Energy Monitoring Systems • You may use Non Tagged and Functional Specs for Systems • Special Instruments may look like an Analyzer but use General • Multiple Tag specs can be used with most Special System items 															
10	New Industrial Practice Spec Sheet Library	<p>Gerald Barta, Foster Wheeler Datasheet Development Experience First Generation Forms</p> <ul style="list-style-type: none"> • 1984-1985, 25 forms based upon Lotus123 • 1989-2008, 70+ forms for ISA SP20, plus database schema • 1994-1996, 90+ forms for Bechtel application based on ISA schema <p>Second Generation Forms</p> <ul style="list-style-type: none"> • 2002-2004, 70 + forms for Bechtel (INtools 6.0) • 2006-2007, 70 forms for ExxonMobil SEED (INtools 7.0) • 2006, 4 Complex analyzer forms for Chevron SEED (INtools 7.75) <p>Third Generation Industrial Practice SPI2007+ forms</p> <ul style="list-style-type: none"> • 2007-2008, 94 forms for Intergraph SPI2007+ <p>Data Column Usage Differences Between Original INtools forms and pending new Integrated Industrial Practice forms</p> <table border="1" data-bbox="594 1318 1235 1604"> <thead> <tr> <th>Usage Description</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>Number Instrument Forms</td> <td>+ 21</td> </tr> <tr> <td>Unique pd columns</td> <td>+ 90</td> </tr> <tr> <td>Unique spec_udf_c* (text data type)</td> <td>+ 520</td> </tr> <tr> <td>Unique spec_udf_n* (numeric data type SPI2007)</td> <td>+ 248</td> </tr> <tr> <td>Total unique columns</td> <td>+ 852</td> </tr> <tr> <td>Unique Dropdown List</td> <td>+ 3,260</td> </tr> </tbody> </table>	Usage Description	Difference	Number Instrument Forms	+ 21	Unique pd columns	+ 90	Unique spec_udf_c* (text data type)	+ 520	Unique spec_udf_n* (numeric data type SPI2007)	+ 248	Total unique columns	+ 852	Unique Dropdown List	+ 3,260	
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11	SPI Forum Topics	<p>SPI Forum Topic - LTUF Spec sheet Committee Recommendations Instrumentation and Electrical Technical User Forum of Houston February 11, 2004</p> <table border="0" data-bbox="592 268 1166 422"> <tr> <td>ABB Lummus Global</td> <td>Betty Alexander</td> </tr> <tr> <td>ABB Lummus Global</td> <td>Arturo Duenas</td> </tr> <tr> <td>Bayer Corporation</td> <td>Jamie Gramz</td> </tr> <tr> <td>Jacobs</td> <td>John Bolmanski</td> </tr> <tr> <td>Mustang Engineering Inc.</td> <td>Dan Williams</td> </tr> </table> <p>LTUF Spec sheet Committee Recommendations</p> <ul style="list-style-type: none"> ▪ The Intergraph INtools software package has been adopted by many E&C (Engineering and Construction) and Operating Companies worldwide. There has been a need for a software package that standardizes specification sheets used to acquire instrumentation at a plant site, and then tracking changes for the life of the instrument. INtools provides this functionality. This write up is a review of the default Spec Sheets available from the Specification Sheet Module, and recommendations on how these default forms can be improved. ▪ Committee General Recommendations <ul style="list-style-type: none"> ▪ Item 1 – Ensure that the “P&ID No.” field is on every Specification Form ▪ Item 2 – Ensure that Range Fields exist for Flow, Level and Pressure devices ▪ Item 3 – Ensure that all Title Blocks have By / Checked / Approved Signatures ▪ Item 4 – Ensure that “AIR_FAILURE_POSITION” is added to forms. <ul style="list-style-type: none"> ▪ Supplement the existing field called “PD_FAILURE_ACTION” – or – ▪ Renaming the current field to “PD_EL_FAILURE_ACTION ▪ Item 5 – Ensure that all Switch devices have Set Point field with Engineering units ▪ Item 6 – Ensure that the following are included in the Specification Sheet Header: <ul style="list-style-type: none"> ▪ Project Name Field ▪ Client Project Number Field ▪ Engineering Project Number Field ▪ Item 7 – Ensure that the Area Classification Field is on each Specification Sheet ▪ Item 8 – Ensure that Design Pressure and Temperature is on each Spec Sheet ▪ Item 9 – Ensure that UDF Fields are standardized across all Specification Forms ▪ Item 10 – Process Data Remarks are incorporated into the Spec Sheet Notes ▪ Item 11 – Ensure that all Transmitter Specification Sheets have an Output Signal Type Field consistently. ▪ Item 12 – Instruments that always require ‘Power’ should have it included on the Specification Sheet. This may need to be added to the Component Table with choices like “Loop Powered – 24VDC”, “120VAC – External”, “24VDC – External” etc. This field would be a good candidate to be an independent “Table” 	ABB Lummus Global	Betty Alexander	ABB Lummus Global	Arturo Duenas	Bayer Corporation	Jamie Gramz	Jacobs	John Bolmanski	Mustang Engineering Inc.	Dan Williams	
ABB Lummus Global	Betty Alexander												
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		<p>with USER defined lists as seen in the Index Module.</p> <ul style="list-style-type: none"> ▪ Item 13 – Use of two (2) Specific Gravity (PD_General. PD_SPEC_GRAV_NOR and PD_General. PD_GAS_SG_AS_MM) fields makes creation and maintenance of the Spec Forms difficult. Even if it is kept, many ‘out-of-the-box’ Spec forms that should have it referenced even though the Process Engr Module uses it while the Spec doesn’t use it. Use of only PD_General. PD_SPEC_GRAV_NOR / Max / Min is preferred. ▪ Committee Specific Recommendations <ul style="list-style-type: none"> ▪ Item 1 – Ensure that Engineering Units for Flow are changed to reflect industry standards to minimize confusion. The following are specific examples: <ul style="list-style-type: none"> ▪ USGPM@FLOW not the current AUSGPM ▪ USGPM@STANDARD not the current SUSGPM ▪ USGPM@BASE not the current BUSGPM ▪ Item 2 – Control Valves Spec 1 does not have a Body Type of KNIFE GATE ▪ Item 3 – Relief Valve Spec 7 does not allow the Process Data Field “Lever” (YES / NO) to transfer to the datasheet Line 46. It would be best if line 46 could be modified to 2 fields. The ‘left’ field would be “Lever Required” and linked to the Process Data Field for a YES / NO answer. The ‘right’ field would be a Spec UDF and a pull down of “Plain” or “Packed” ▪ Item 4 - Spec Sheet 7 (Relief Valve) does not allow the Fire and Non-fire Sizing Data Basis to transfer properly. It only specifies what kind of Fire calculation was used (Gas Expansion or Blocked Flow). ▪ Item 5 – Spec Sheets (in general - on the Notes page) are severely restricted as to how many characters may be placed on the page. Increasing the limits in Infomaker seems to have no effect. Effectively the page can only be filled about 40 to 50 % when using complete sentences and paragraphs in the Notes page. ▪ Item 1 – Every Specification Sheet must have an option to produce an electronic file of that Spec Sheet. <ul style="list-style-type: none"> ▪ <u>Mandatory</u> – Print to an EXCEL Spreadsheet <ul style="list-style-type: none"> ▪ <u>Note:</u> This has been a part of current releases, but does not truly work. Clients that do not use INtools need an editable document for all of their equipment. EXCEL is an acceptable ‘lowest common denominator’, generic format. ▪ <u>Optional</u> – A separate method to print to an Acrobat *.PDF File <ul style="list-style-type: none"> ▪ <u>Note</u> – This should be available 	

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		<p style="text-align: center;">without any 3rd party software.</p> <ul style="list-style-type: none"> ▪ Item 2 – There should be an option to Batch Print all Specification Sheets as one document when printing, instead of one sheet at a time, when printing to an external PDF writer ▪ Item 3 – All delivered Specification Sheets should already have a predefined browse in the Instrument Specification Browser ▪ Item 4 – All Specification Sheets (capable of applying to DDP) should share the same data fields. ▪ Other General Recommendations <ul style="list-style-type: none"> ▪ Item 1 - Turn on selection (check box) in InfoMaker for every data field under 'Edit' tab titled "Empty String is NULL" ▪ Item 2 - Data Dictionary needs to be completely set up on 'out-of-the-box Specs' ▪ Item 3 - Utilize the DDP module fields for the Instrument Inlet and Outlet Connections size, Class and End Prep on each Spec form. ▪ Item 4 - Utilize all of the Process Data fields available in the Spec forms ▪ Item 5 - Selection of a '2 Phase' condition is available in the Process Data module but does <u>not</u> appear on the Spec forms in general. ▪ Item 6 - Add the appropriate flow and density Process Data fields to any instrument having a Thermowell <p>Response from Intergraph dated February 13, 2004</p> <p>From: Ambrose, Scott A [mailto:saambros@ingr.com] Sent: Friday, February 13, 2004 4:49 PM To: Bolmanski, John V Cc: Newton, Ohad; Alexander Koifman Subject: INtools SR: 1-26917101 (JACOBS EN/HOUST) - Specification Sheet</p> <p>Summary Mr. Bolmanski, Mr. Newton and I were just reviewing the list you provided from the LTUF committee. We decided that these issues would be best served by having our Product Management group (i.e. Ohad) spearhead the consideration of these proposed changes. As a result, I will be closing this service request. You can use Mr. Newton as a contact point, or if needed, you can always call Mr. Koifman or myself and we can attempt to obtain a status in his absence. Thank you and the committee for you efforts. A number of these items seem like they would be good additions to the product.</p> <p>Regards, Scott Ambrose INtools Support Services Huntsville, AL USA (256) 730-3308</p>	

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12	Forum Topics	<p>Forum Topic - Change Request Ranking Website</p> <ul style="list-style-type: none"> ◆ Connection to the new CR Ranking website http://www.sptuf.com/ or http://www.spi-ltuf.org/ ◆ This site is designed to enable the Intergraph® User Community to put forward Change Requests (CR's). Once a CR has been submitted, it undergoes peer review by the entire user community. Intergraph® will provide responses to all highly Ranked CR's. ◆ The website also hosts Meeting Minutes, if your LTUF does not have a website and would like to publish the Meeting Minutes via the Web contact: Dennis Cooley CooleyCore Associates Inc. Cell: (403) 975-9797 Dennis.Cooley@CooleyCore.com ◆ Houston LTUF Workshops A suggestion by Andrew Kunev, Honeywell was made to have breakout workshops for members of the LTUF to do self training among themselves. The suggestion was well received and John Dressel took it as an action item to investigate further. 	
13	Close Meeting	<ul style="list-style-type: none"> - The next meeting will be on May 5, 2009 at: The Shaw Group Inc.® 1430 Enclave Parkway Houston, TX 77077 - John Dressel closed meeting 	