Technical Information Bulletin

Thermo Scientific Clinical LIMS: Delivering Lab-Centric Solutions for Patient-Centric Results

"One of the major goals of the translational research movement has been to bridge the gap from bench to bedside and any initiative to blend the LIS with the LIMS can be understood as an extension of this quest. The lesson from all of this is obvious. We now need to make an effort to understand the relative strengths of LIS and LIMS and proceed to develop new systems that capture the best features of each of them."

Bruce A. Friedman, M.D., Active Emeritus Professor of Pathology; Department of Pathology; University of Michigan Medical School

The Challenges

ized medicine.

• Clinical diagnostics labs require

to meet the technical, integration

and business needs of the emerging

fields of translational and personal-

lab processes that are responsive to

physician and patient needs, while

meeting the technical complexities

• Clinical labs need informatics solu-

tions that can easily integrate with

internal applications and laboratory

instrumentation, as well as external

faster turnaround of results to phy-

sicians to enable more informed and

while maintaining compliance with

personalized patient health care,

CLIA and HIPAA regulations.

• Researchers and clinicians need

of a medical research lab.

partners and collaborators.

• Diagnostics labs need to deliver

- distinct Laboratory Information System (LIS) and Laboratory Information Management System (LIMS) functionality in one cohesive system
- Physicians' Interface
- Patient Management
- Billing & CRM

Key Words

• LIMS

• I IS

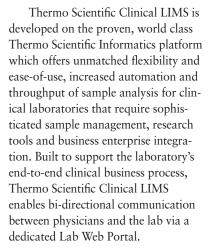
- Clinical Vocabularies
 & HL7 Messaging
- Data Security & Compliance
- Configurable Hierarchy
- Workflow
 Management
- Biospecimen &
 Plate Management
- Instrument Integration & Automation
- Enterprise Business Integration
- CLIA & HIPAA Compliance
- Electronic TRF
- PHI

Advancing Medicine Requires Next Generation Informatics Solutions

The improvements related to understanding the unique genetic makeup of both patients and disease have allowed physicians to utilize specialized diagnostic tests to diagnose and treat their patients. Due to the patient specific nature of the testing, labs must have in place all of the tools and compliant methodologies that are required to support CLIA and HIPAA regulations. Furthermore, labs also need to manage complex sample oriented workflows (including sophisticated instruments and automation) and support business processes. The new challenge for clinical testing labs responding to the increase in genetics testing is converging the functionality of informatics systems that manage patient information and those that manage lab and sample data.

The Solution

To meet these challenges Thermo Scientific Clinical LIMS delivers comprehensive laboratory and patient management functionality needed by researchers and technicians involved in clinical testing and molecular diagnostics. The first comprehensive solution to combine the sample-centric functionality of a LIMS with the patient-centric functionality inherent in a traditional LIS, Thermo Scientific Clinical LIMS bridges the gap between the two and delivers a complete and streamlined solution.



The Clinical LIMS also enables customer service follow-up and CRM interface, patient management, final report generation and automated delivery, benefits investigation, interface with a billing provider, and the ability to interface with multiple clinical vocabularies. The Clinical LIMS is designed to be fully compliant with key industry regulations; those related to protecting patient privacy (HIPAA) and those related to clinical testing (CLIA). Our solution also supports the most widely used ANSI-accredited standard for interoperability of health information technology (HL7) and enables laboratories to operate in compliance with GLP and 21 CFR Part 11.

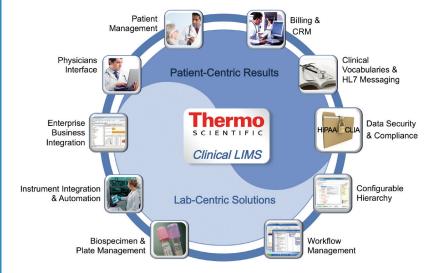


Figure 1. Thermo Scientific Clinical LIMS delivers lab-centric solutions for patient-centric results.

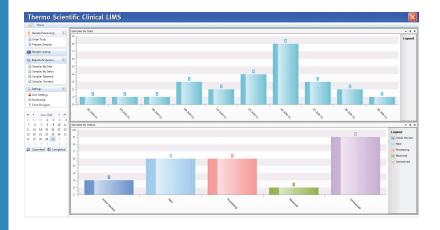


Figure 2. The Lab Web Portal cuts overall turnaround time (TAT) by employing electronic TRF submission and patient reporting, automated shipment tracking, and regular notifications to sender and receiver.

le Precessing Available Samples	Associated TRF					
Terts Date Submitted	Test Regulation Form					
D D <thd< th=""> <thd< th=""> <thd< th=""> <thd< th=""></thd<></thd<></thd<></thd<>	Street Address City: Primary Phane: MRN: Fathology Information Path Medical Pacificy: Submitting Pathologiat:	[15:C-barry Str [Mit] Control Far [16:C-barry Str [Mit] Control Far [16:C-barry Str @econdary Home(145:357-2553) [17:A] Birth Detex: [Mit]2313 [17:A] Birth Detex: [Mit]2313 [17:A] Birth Detex: [Mit]2313		Model Facility Mill Clinic from the stand function stands "Physical Intel States ANC Address Address Clinic from the stands Chr. Factor States ANC Model Intel States ANC Address Chr. Factor States ANC Address Extern Microsoft States ANC Chr. Factor States ANC Address of Hospital Transmittion Extern Microsoft States ANC Coold Models Clinic Microsoft Ancel Coold Models Clinic Microsoft Ancel		
	100-9 Code(s) (Please p 1224-5 Patient Status: Primary Insurance: Subscriber 101	d02c2645-0301-4766-0640-1002021004 Secondary Insurances 11111 Group IDI 22222 Subsoriber IDI Bred Pitt	try heaptal Elick here to solice from a lating Group IDr	Discharge Date: Patient Self-Pays Rome On Oredit Cards Credit Card Number: Bill Pathology Account	Click here is select from a listing	

Figure 3. The electronic Test Request Form (TRF) mimics the paper form and offers built-in features like patient search, insurance lookup/update, consent management and 'hard stops' flagging logic.

Dationt Car	nparison Algorithr						
Patient Com	nparison Algorithr	n					
t will filter ex	xisting patients b	m is used when adding r ase on the criteria listed tient more then once in	I below, to check if				
New Gr	ouping 🔯 R	emove Grouping					
1	Field Nam	ie			Comparison Type	# of Char	
2 3	*		Click here	to Add N	Vew		_
Ŭ	First Name	e			Begins With	3	
	Birth Date				=		0
	Last Name	•			Begins With	3	
		-				-	1.
New Pati	ient Information		×	1			
		u are adding the system th	en fill in the needed				
informatio		a are adding the system t					
0.0	1 10 1						
	andard Entry						
		ent requires the patient to here and a date of birth	have a first name,				
last	t name, MRN numbe	nt requires the patient to h r and a date of birth.	have a first name,		ОК	Cancel	Apply
last O Blin	t name, MRN numbe nd Entry	r and a date of birth.			ОК	Cancel	Apply
last O Blin A B	t name, MRN numbe nd Entry Blind Entry Patient is	r and a date of birth. a patient that is only refer			ОК	Cancel	Apply
last O Blin A B	t name, MRN numbe nd Entry	r and a date of birth. a patient that is only refer		Eigu			
Blin A B ext	t name, MRN numbe nd Entry Blind Entry Patient is	r and a date of birth. a patient that is only refer t the system.		· ·	ure 4. Patient Der	nographics f	
Blin A B ext	t name, MRN numbe n d Entry Slind Entry Patient is ernal ID throughout	r and a date of birth. a patient that is only refer t the system.		sup	ure 4. Patient Der	nographics f s of patient	orms
Blin A B ext Patien	t name, MRN numbe nd Entry Nind Entry Patient is zernal ID throughout nt Demographic	r and a date of birth. a patient that is only refer t the system.	renced by an	sup	ure 4. Patient Der	nographics f s of patient	orms
Blin A B ext Patien	t name, MRN numbe nd Entry Mind Entry Patient is ternal ID throughout nt Demographic tient Name	r and a date of birth. a patient that is only refer t the system. S	renced by an	sup sea	ure 4. Patient Der port various type irches (Exact, Like	nographics f s of patient e, Soundex, F	orms Revers
Blin A B ext Patier	t name, MRN numbe nd Entry Slind Entry Patient is ternal ID throughout nt Demographic tient Name *First Name*	r and a date of birth. a patient that is only refer t the system. S	renced by an	sup sea as v	ure 4. Patient Der port various type ırches (Exact, Like well as blind patie	nographics f s of patient e, Soundex, F ent entry for	orms Revers STD
Patier	t name, MRN numbe nd Entry Nind Entry Patient is izernal ID throughout nt Demographic tient Name *First Name* Middle Name	r and a date of birth. a patient that is only refer the system. s Mickey	renced by an	sup sea as v	ure 4. Patient Der port various type irches (Exact, Like	nographics f s of patient e, Soundex, F ent entry for	orms Revers STD
Patien Patien ***	t name, MRN numbe nd Entry Nind Entry Patient is ternal ID throughout nt Demographic tient Name *First Name* Middle Name *Last Name*	r and a date of birth. a patient that is only refer the system. s Mickey	renced by an	sup sea as v sam	ure 4. Patient Der port various type Irches (Exact, Like well as blind pation nples and flexible	nographics f s of patient e, Soundex, F ent entry for logic to con	orms Revers STD
Patien	t name, MRN numbe nd Entry Nind Entry Patient is ternal ID throughout nt Demographic tient Name *First Name* *Last Name* *Last Name*	r and a date of birth. a patient that is only refer the system. s Mickey	renced by an	sup sea as v sam	ure 4. Patient Der port various type ırches (Exact, Like well as blind patie	nographics f s of patient e, Soundex, F ent entry for logic to con	orms Revers STD
Patier Patier Patier Patier Me	t name, MRN numbe nd Entry Mind Entry Patient is ternal ID throughout nt Demographic tient Name *First Name* Middle Name *Last Name* *Last Name* External ID	r and a date of birth. a patient that is only refer the system. s Mickey Mouse	renced by an	sup sea as v sam	ure 4. Patient Der port various type Irches (Exact, Like well as blind pation nples and flexible	nographics f s of patient e, Soundex, F ent entry for logic to con	orms Revers STD
last O Blin A B ext Patier Patier Me	t name, MRN numbe nd Entry Mind Entry Patient is ternal ID throughoul t Demographic tient Name "First Name" "Last Name" :ta Data :ta Sternal ID *SSN #*	r and a date of birth. a patient that is only refer the system. s Mickey Mouse	renced by an	sup sea as v sam	ure 4. Patient Der port various type Irches (Exact, Like well as blind pation nples and flexible	nographics f s of patient e, Soundex, F ent entry for logic to con	orms Revers STD
Patier Patier Me	t name, MRN numbe d Entry lind Entry Patient is ternal ID throughould nt Demographic tient Name* "firist Name* Middle Name* ta Data External ID "\$SN #* MRN	a patient that is only refer the system. S Mickey Mouse 1234	renced by an	sup sea as v sam	ure 4. Patient Der port various type Irches (Exact, Like well as blind pation nples and flexible	nographics f s of patient e, Soundex, F ent entry for logic to con	orms Revers STD
Patier Patier Patier Patier Patier Patier Patier	t name, MRN numbe d Entry lind Entry Patient is rernal ID throughout t Demographic tient Name "First Name" "Last Name" tab Data External ID 5'SN #* MRN Gender	r and a date of birth. a patient that is only refer the system. S Mickey Mouse 1234 01/21/2001	renced by an	sup sea as v sam	ure 4. Patient Der port various type Irches (Exact, Like well as blind pation nples and flexible	nographics f s of patient e, Soundex, F ent entry for logic to con	orms Revers STD
Patier Patier Patier Patier Contemport	t name, MRN numbe d Entry lind Entry Patient is ternal ID throughoul t Demographic tient Name "First Name" "tast Na	r and a date of birth. a patient that is only refer the system. S Mickey Mouse 1234 01/21/2001	enced by an	sup sea as v sam	ure 4. Patient Der port various type Irches (Exact, Like well as blind pation nples and flexible	nographics f s of patient e, Soundex, F ent entry for logic to con	orms Revers STD
Patier Patier Patier Patier Patier Co	t name, MRN numbe d Entry lind Entry Patient is remail ID throughout nt Demographic tient Name* "First Name* "Last Name* "Last Name* ta Data External ID "SSN #* MRN Gender *Date of Birth* ntact Informatio Address Line I	r and a date of birth. a patient that is only refer the system. S Mickey Mouse 1234 01/21/2001	enced by an	sup sea as v sam	ure 4. Patient Der port various type Irches (Exact, Like well as blind pation nples and flexible	nographics f s of patient e, Soundex, F ent entry for logic to con	orms Revers STD
Patier Pa	t name, MRN numbe d Entry lind Entry Patient is ternal ID throughoul t Demographic tient Name "Frist Name" "Middle Name" "Last Name" "Last Name" "Last Name" ta Data ta Data ta Data Sender "Date of Birth" ntact Informatio Address Line1 Address Line2	r and a date of birth. a patient that is only refer the system. S Mickey Mouse 1234 01/21/2001	enced by an	sup sea as v sam	ure 4. Patient Der port various type Irches (Exact, Like well as blind pation nples and flexible	nographics f s of patient e, Soundex, F ent entry for logic to con	orms Revers STD
Patier Pa	t name, MRN numbe d Entry lind Entry Patient is ternal ID throughou th Demographic tient Name* "First Name* "Last Name* ta Data External ID "SSN #* MRN Gender "Date of Birth" ntact Informatio Address Line1 Address Line2 City	r and a date of birth. a patient that is only refer the system. S Mickey Mouse 1234 01/21/2001	enced by an	sup sea as v sam	ure 4. Patient Der port various type Irches (Exact, Like well as blind pation nples and flexible	nographics f s of patient e, Soundex, F ent entry for logic to con	orms Revers STD
Patier Pa	t name, MRN numbe d Entry lind Entry Patient is terrnal ID throughout t Demographic tient Name* Middle Name* "task Name* tas Data External ID "SSN #* MRN Gender "Date of Birth" ntact Informatio Address Line1 Address Line1 City Stole	r and a date of birth. a patient that is only refer the system. S Mickey Mouse 1234 01/21/2001	enced by an	sup sea as v sam	ure 4. Patient Der port various type Irches (Exact, Like well as blind pation nples and flexible	nographics f s of patient e, Soundex, F ent entry for logic to con	orms Revers STD
Patier Pa	t name, MRN numbe d Entry lind Entry Patient is ternal ID throughoul t Demographic tient Name "First Name" "tast Name" Address Line1 Address Line2 City State Dp Code	r and a date of birth. a patient that is only refer the system. S Mickey Mouse 1234 01/21/2001	enced by an	sup sea as v sam	ure 4. Patient Der port various type Irches (Exact, Like well as blind pation nples and flexible	nographics f s of patient e, Soundex, F ent entry for logic to con	orms Revers STD
Patier Patier Patier Patier Patier Patier Patier Patier Patier Patier Patier Con Con Con Con Con Con Con Con Con Con	t name, MRN numbe d Entry lind Entry Patient is ternal ID throughoud ht Demographic tient Name* "First Name* "Last Name* ta Data External ID "SSN #* MRN Gender "Date of Birth" ntact Informatio Address Line1 Address Line2 City State City State Country	r and a date of birth. a patient that is only refer the system. S Mickey Mouse 1234 01/21/2001	enced by an	sup sea as v sam	ure 4. Patient Der port various type Irches (Exact, Like well as blind pation nples and flexible	nographics f s of patient e, Soundex, F ent entry for logic to con	orms Revers STD
Patier Pa	t name, MRN numbe d Entry lind Entry Patient is ternal ID throughoul t Demographic tient Name "First Name" "tast Name" Address Line1 Address Line2 City State Dp Code	r and a date of birth. a patient that is only refer the system. S Mickey Mouse 1234 01/21/2001	enced by an	sup sea as v sam	ure 4. Patient Der port various type Irches (Exact, Like well as blind pation nples and flexible	nographics f s of patient e, Soundex, F ent entry for logic to con	orms Revers STD

Key Features and Benefits

- The Physicians' Interface provides a secure web-based interface for submission of test requests to the lab, tracking sample progress, and access to published patient reports. The Lab Web Portal features an integrated dashboard with tailored KPI alerts, on-demand querying, and pre-pack-aged reports. The Lab Web Portal employs automated shipment track-ing with regular updates to sender and receiver, allowing for improved capacity planning at the lab.
- Patient Management Functionality facilitates comprehensive patient clinical record tracking including insurance information, consent information, family and medical history, clinical notes and testing results history. All Protected Health Information (PHI) is stored and managed in compliance with the privacy and security rules of the Health Insurance Portability and Accountability Act (HIPAA).
- Billing & CRM is enabled via integration with existing business systems that manage accounting and customer information. Customer service can set up rules to automatically flag samples with known discrepancies or make manual observations. Sample follow-up is facilitated internally and/or via CRM interface. An integrated dashboard is used to organize the workload and send alerts. Automated clinical data delivery through HL7 communication provides accurate information to the billing partner to allow increased reimbursement in a timely fashion.
- Clinical Vocabularies and Health Level 7 (HL7) Messaging supports CLIA mandated exchange of laboratory information between clinical laboratories and external partners. This interface facilitates sample accessioning, patient results reporting and secure patient billing. Thermo Scientific Clinical LIMS supports usage of standard clinical terminologies and interfaces with clinical vocabularies (ICD, CPT, LOINC, SNOMED, etc.).
- Complete Data Security and Audit Trail capabilities address the needs of both the laboratory data and PHI. All patient information is stored in compliance with HIPAA privacy regula-

tions including software accessibility, PHI separation and data integrity, personnel HIPAA training, and the storage, retrieval and secure electronic transmission of lab test results. The auditing capabilities monitor all views and changes to any record in the system. The Clinical LIMS supports compliance with CLIA and 21 CFR Part 11. All patient reports are stored in a read-only format (PDF) and corrections or amendments to reports are handled in accordance with CLIA sec. 493.1291. All data is stored in a database and access is managed through privileges based on role, operator and group, ensuring data security and traceability.

- The Configurable Hierarchy manages data collected during the sample testing process and accommodates varying laboratory needs. Configurable hierarchy is integrated with chain-of-custody, location management, aliquot/derivative and pooled sample tracking. The disposition of a sample or aliquot is documented, ensuring that the Clinical LIMS stores its workflow history throughout the testing process.
- Workflow Management is designed to emulate laboratory processes via an intuitive graphical interface. The patented Workflow Manager expedites the mapping of static and dynamic processes without the need for custom programming, allowing users to organize data and manage tasks effectively.
- Biospecimen and Plate Management includes graphical workflows and plate editors, as well as built-in integration functionality that facilitates increased throughput and automation. The plate editor allows manual editing with user friendly functionality such as drag-and-drop. High throughput processes and plate based assays can be emulated using graphical workflows which include features such as replication, compositing, pooling, and cherry-picking.
- Instrument Integration & Automation includes robotics, next-generation sequencing, analyzers, etc., and facilitates standardization of processes and simplifies operations across the clinical network. This results in fewer transcription errors, improved data quality and cost savings.

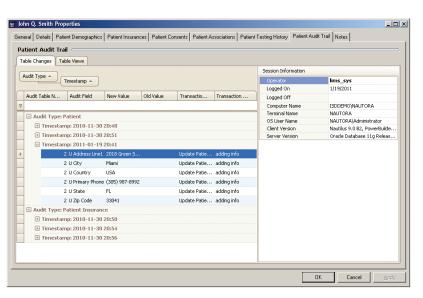


Figure 5. Patient Management includes Demographics, Insurance, Consent, Family, Medical and Testing Results History information per patient. Full PHI audit trail, clinical notes and attachments are recorded and stored.

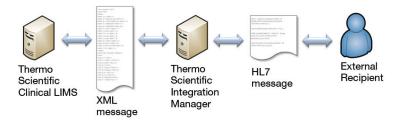


Figure 6. HL7 communication between the Clinical LIMS and external collaborators is facilitated by Thermo Scientific Integration Manager.

6	mponent 🛧 🗋									
		-		-						
	Name	Component +	Property	Time	Sample Type	Scale	Method	Short Name	Version	Version Status
-	Component:	INFLUENZA VIRUS A .AB								
	22365-1	INFLUENZA VIRUS A .AB	TITR	PT	SER	QN		FLUA. Ab Titr Ser	1	Authorised
	3 17012-6	INFLUENZA VIRUS A .AB	ACNC	PT	CSF	QN		FLUA Ab CSF-aCnc	1	Authorised
	39536-8	INFLUENZA VIRUS A .AB	ACNC	PT	SER	QN	CF	FLUA Ab Ser CF-aCnc	1	Authorised
	34153-7	INFLUENZA VIRUS A .AB	ACNC	PT	2000	QN		FLUA Ab XXXI-aCnc	1	Authorised
	3 5229-0	INFLUENZA VIRUS A .AB	TITR	PT	SER	QN	CF	FLUA Ab Titr Ser CF	1	Authorised
-	c	JC VIRUS DNA								
	3 33295-7	JC VIRUS DNA	ACNC	PT	CSF	ORD	PROBE .AMP.T.AR	JCPW DNA CSF QI PCR	1	Authorised
	32363-4	JE VIRUS DNA	ACNC	PT	SEB	ORD	PROBE AMP T AB	JCPVV DNA SerPI QI PCR	4	Authorised
	34586-8	JC VIRUS DNA	ACINC	PT	TISS	ORD	PROBE AMP.T.AR	JCPV/ DNA SkiPI QI PCR	1	Authorised
	345661-8	JE VIBUS DNA	ACNC	PT	UB	ORD	PROBE AMP T AR	JCPV/ DNA TISS QLPCH	1	Authorised
	42921-7	JC VIRUS DNA	ACINC	PT	XXX	ORD	PROBE AMP.T.AR	JCPW DNA W DI QI PCR	1	Authorised
	42321-7	JU VINUS DNA	ALINC	P1	~~~~	UND	PHUBE AMP. LAN	JUPYV DNA XXX QI PUN		Authorised
	Component: I	MICROORGANIZM IDENTI	FIED							
	3 604-9	MICROORGANIZM IDENTIF.	. PRID	PT	BRO	NOM	AEROBIC CULTURE	Bro Aerobe Cult	1	Authorised
	3 605-6	MICROORGANIZM IDENTIF.	. PRID	PT	CNL	NOM	AEROBIC CULTURE	Cnl Aerobe Cult	1	Authorised
	3 606-4	MICROORGANIZM IDENTIF.	. PRID	PT	CSF	NOM	STERILE BODY FLUID CULTURE	CSF BFld Cult	1	Authorised
	3 607-2	MICROORGANIZM IDENTIF.	. PRID	PT	DBN	NOM	AEROBIC CULTURE	Dm Aerobe Cult	1	Authorised
	3 608-0	MICROORGANIZM IDENTIF.	. PRID	PT	EAR	NOM	AEROBIC CULTURE	Ear Aerobe Cult	1	Authorised
	3 609-8	MICROORGANIZM IDENTIF.	. PRID	PT	EYE	NOM	AEROBIC CULTURE	Eye Aerobe Cult	1	Authorised
	3 610-6	MICROORGANIZM IDENTIF.	. PRID	PT	FLU	NOM	AEROBIC CULTURE	Fid Aerobe Cult	1	Authorised

Figure 7. Support for clinical vocabularies - universal LOINC identifiers are used for HL7 messaging.

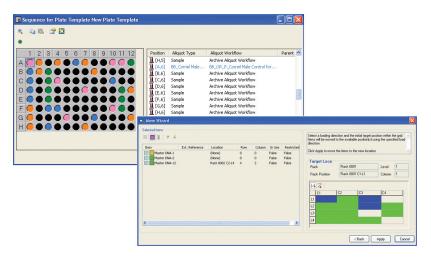


Figure 8. Biospecimen and Plate Management includes graphical workflows and plate editors.

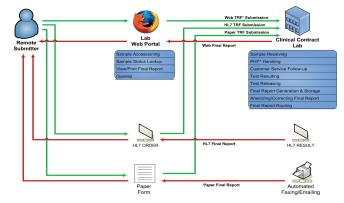
• Enterprise Business Integration facilitates enterprise level information exchange by integrating the Clinical LIMS with other systems like EMR, CRM, ERP, billing via HL7 messaging, web services and application interfaces. Process metrics such as turnaround time, failure rates and statistical quality control enable efficient, streamlined operations by uncovering bottlenecks and improving processes. The integration of these systems allows for optimized data correlation and collaboration, end-to-end data tracking, secure data exchange, and maximizes the organization's investment in its information technology.

🐻 Cell Bank Sample Workflow Properties				
General Tree Details Items Notes → ↓ Als × ← Cell Bank Sample ↓ Sample - Cell Bank Sample ↓ Aliquot - Cell Culture ↓ Matter Details ↓ Tenperature ↓ Temperature ↓ Temperature ↓ Temperature ↓ Temperature ↓ Temperature ↓ Temperature ↓ Temperature ↓ Matter Cell Bank ↓ Matter Cell Bank	Aliquot Aliquot List Assign Date Assign Operator Assign Role Georacast Ochoice // Comment Sobusg	Extension Choice	Selection The SubTree Trigger Validation Pass Validation Fall	
⊡ m Alquot Split —	Event Extension Template Cell Bank Sample	Schedule		~
		0	K Cancel	Apply

Figure 9. Patented Workflow Management is designed to emulate laboratory processes via an intuitive graphical interface.

	Loed Levout			Seve Le	tut		Custo	rrize l	Levout		
flow: TRF										Oustomization Op	tions
t Regulation Form										Control Type:	
ect Pields From: *Sample	Fields* •									LookUpSelector	
en kens:				Client Information					•	LookUpSelect	
New Group Box	Click here to select from First Name:		ML:	Nedical Facility Id:	Click here to select from a listing			1		Lookupselect	or
New Tabbed Group			Act. #:	*Physician Id:	John House - NXCI	_				Customiz	e Lookup Grid
valable norm:	State: Zipi Countryi				8227 Johnson St.	_				Label Position:	
Collection Method	Secondary Phone:			City:	Tolison State: Nov 3		Zip: 11024 Country: LEA			Required Entry	V
Copy Of Insurance Card?	Birth Date: G	ender:		Phone:	Pax: 111.333.2333					Fore Color:	Red
Created On				Additional Physicians to be	Control			- L		Back Colori	White
External Reference											
	Click here to select from a listing				Click here to select from a listing						
Is Validated	Click here to select from a listing			Copied Physician:	Click here to select from a lating				11.		
Lab Status	Fax			Phone:		R	00				
Name On Hold Prey Template											
	ovide as many "symptomatic diagnosis" codes as applica	ible)									
Study ID											
Comparison Mathemat		Hospital Name:			Discharge Date:						
TR# Status			Click here to sel		Patient Self-Pay:		Click here to select from a listing				
Name Of Insured:		Subscriber ID:		Group ID:	Name On Credit C						
Relationship To Patient:		Name Of Insured: Relationship To Patient:			Credit Card Numb		Credit Card Expiry:				
Paraset and To Patient:		Nameournamy TO Patient:			- Bill Petrology Acc	and h I					
Specimen Retrieval											
DO NOT contact patholog	y regarding this case. I will arrange for the specimen to	be shipped to Foundation	n Medicine								

Figure 10. Lab users can design their own electronic forms without any programming experience by using built-in Form Designer.



*TRF – Test Requisition Form **PHI – Patient Health Informatio

Figure 11. Patient reports can be transmitted through secure electronic fax, email, and HL7 transmission.

© 2011 Thermo Fisher Scientific Inc. All rights reserved. All other trademarks and copyrights are the property of their respective owners.

©2010 iConnect Consulting

Delivering Lab-Centric Solutions for Patient-Centric Results

The emerging fields of translational and personalized medicine have been the catalyst for a more symbiotic relationship between patient-centric processes and the sample-centric lab environment. The ultimate goal of this new symbiosis is a streamlined end-to-end information flow following the patient from the point of care, to molecular testing and results analysis, to diagnosis and treatment.

Thermo Scientific Clinical LIMS satisfies this critical need by delivering a comprehensive sample and patient management solution which enables physicians and healthcare staff to have pertinent data readily available to optimize patient care. This unique solution standardizes ordering and reporting practices and improves patient laboratory and healthcare documentation, allowing laboratories to manage healthcare information more efficiently and improve compliance with laws governing medical records management.

By unifying the distinct laboratory and patient management functionality needed by researchers and technicians involved in clinical testing and molecular diagnostics, Thermo Scientific Clinical LIMS delivers what no other stand-alone LIMS or LIS can: lab-centric solutions for patient-centric results.

For More Information

about Thermo Scientific solutions for clinical diagnostics, visit **www.thermoscientific.com/clinicallims** Or you can email us at marketing.informatics@thermofisher.com In addition to these offices, Thermo Fisher Scientific maintains a network of representative organizations throughout the world.

Australia/Asia Pacific

+61 8 8208 8200

China +86 800 810 5118

France +33 160924800

Germany/Eastern Europe +49 6103 408 1110

India +91 22 6742 94 94

Latin America and the Caribbean +1 781 933 4689

Netherlands/Benelux +31 76 579 5555

Spain/Portugal +34 914 845 965

United Kingdom +44 1619423000

USA/North America +1 800 395 5467



CLINICAL LIMS TIB 0811