# Methods for Deploying eSignatures in Trip Reporting and Clinical Supply Management for CTMS

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# **Acknowledgements**

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# **Business Case for E-Signatures**

- CTMS is first and foremost a management and tracking tool
- Identify data and processes with regulatory impact
- □ Is CTMS the "System of Record" ?



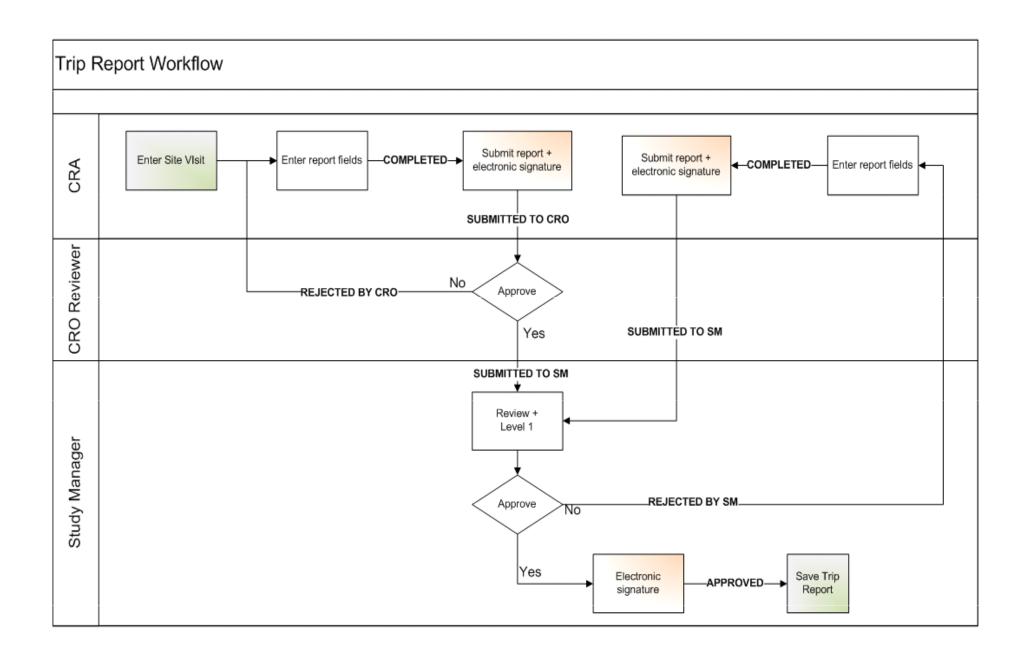
#### **The Moment of Truth**

- □ Select business process
  - Trip Reports
  - Decision Points (e.g. Remove Subject)
  - □ Site Communication Package
- □ Select an approach
  - ☐ Typewriter Rule vs.
    - Electronic Record / Electronic Signature



# **Scenario for E-Signatures**

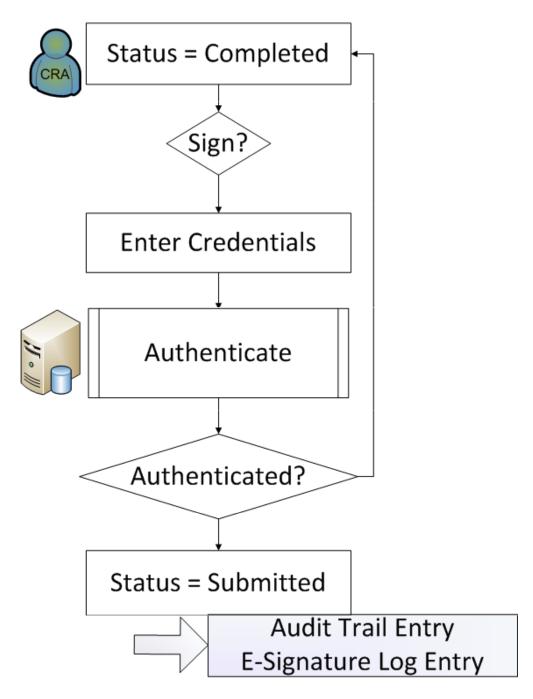
- Trip Report Approval Workflow:
  - CRA to sign on submitting
  - Study Manager to sign on approval

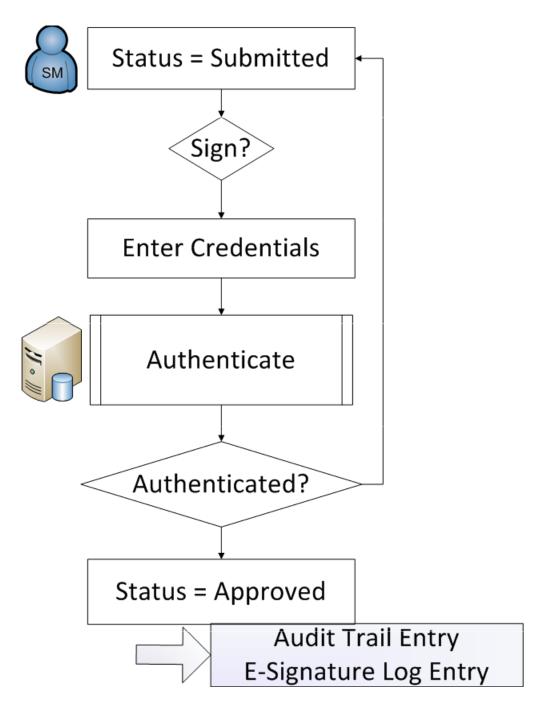


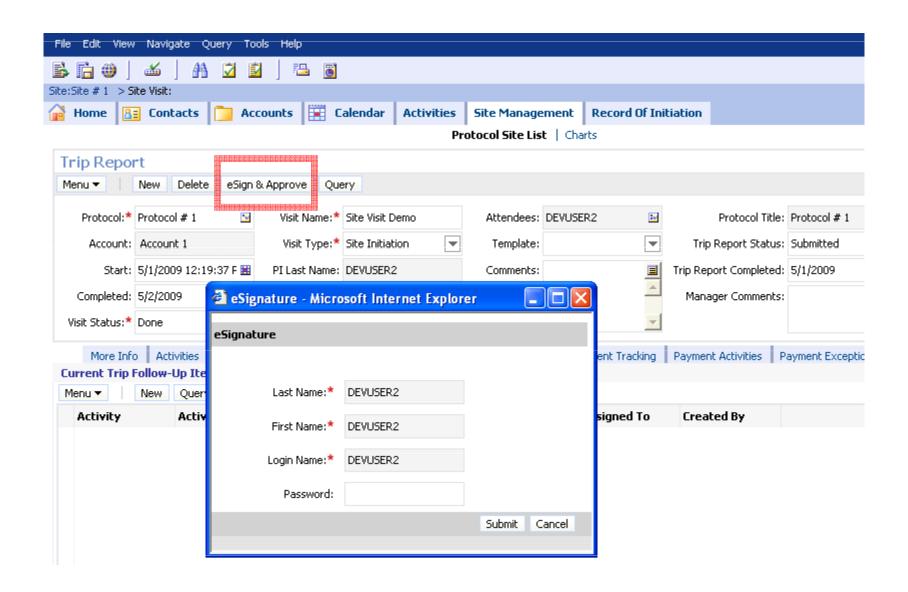


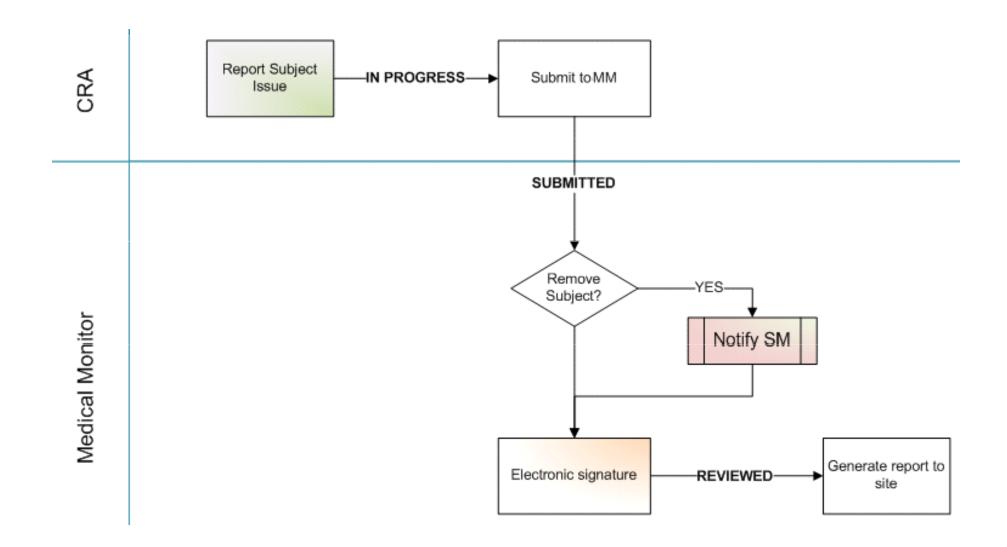
# **Authentication**

- Components of e-signature per 21 CFR Part 11
- □ Authenticate user
- Siebel authentication context



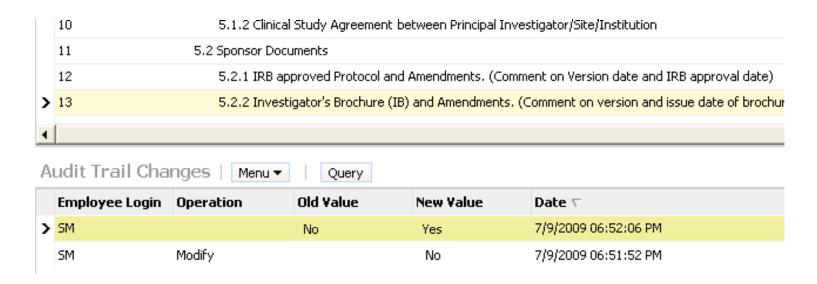








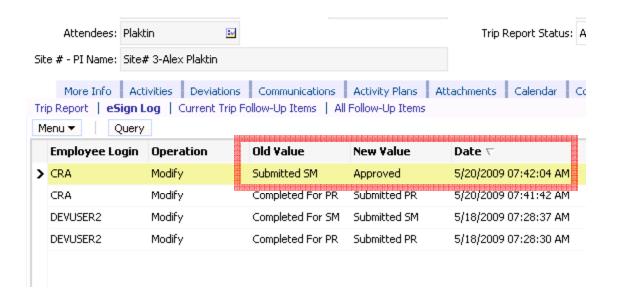
- What data is audit trailed
- □ Components of audit trail per 21 CFR Part 11





# **Signature Log**

- ☐ Record all signature events, name, date, values
- Audit Trail for signature data (metadata)





# **Part II: Supply Management**



# **Supply Management Scenarios**

- Business processes incorporated into CTMS
- IP distribution and tracking
- Managing product availability (warehouse inventory)
- Managing site inventory
- □ IVRS/IWRS interface



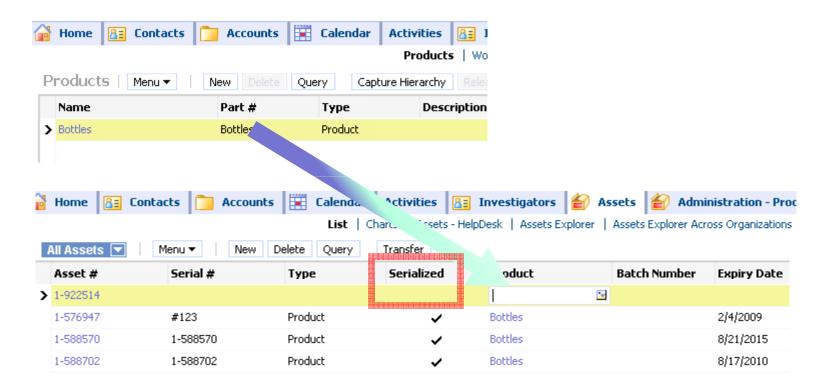
#### **Serialized Asset Model**

- Use Product—Asset hierarchy already in Siebel
- Kit-level control at depot and site
- Evaluate ROI (Return on Investment)
- Next steps (progress towards tracking solution?)

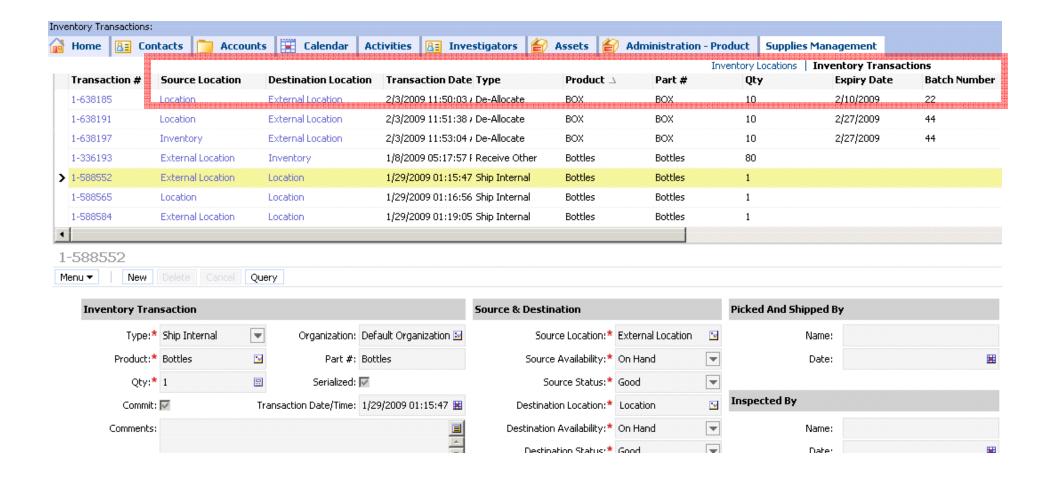


#### **Serialized Asset Model**

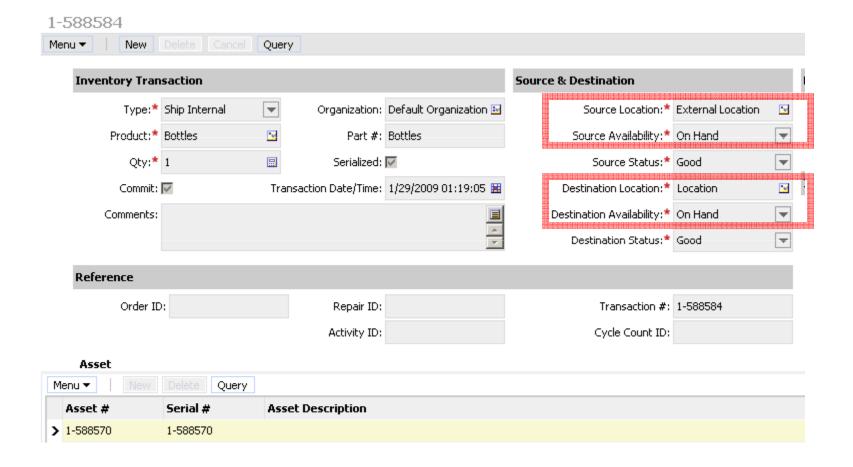
□ Leverage Product>Asset Hierarchy



# **Transaction Records**



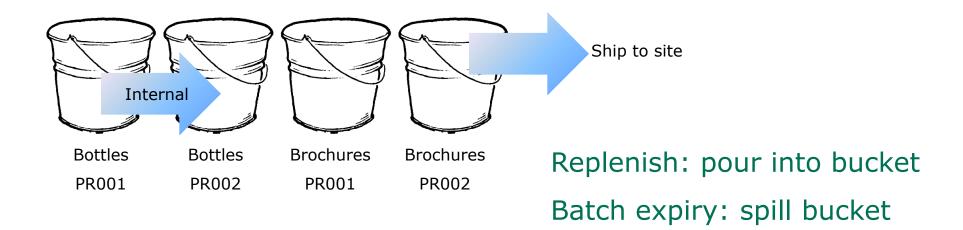






### **Batch Accounting**

- No serializing: keep track of batch -> product
- Manage available inventory for each protocol
- Replenish, ship, and re-allocate transactions





# **Managing Inventory at Site**

- Example: When to deliver CRFs to sites, and how much
- Objective: send small amount each time, in keeping with newly enrolled subjects



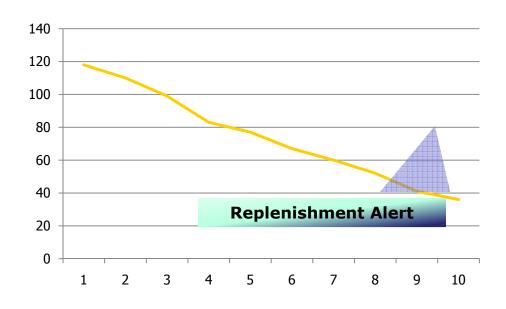
# **Depletion and Replenishment**

Also: model ancillary products consumption

#### Formula:

Inventory (N+1) =
Inventory(N) +
Supply(N) SubjectsActive(N) x PerSubjectRate

Replenish at pre-defined amount





# **Case Study**

- Batch Accounting Scenario
- Shipment Authorization to trigger shipment by third party
- Shipment Authorization to trigger update of inventory per protocol
- E-Signature for the Shipment Authorization



## **Shipment Authorization Record**



- □ System record to issue report (authorization)
- Note the "Approved" status
- Subtract shipped amount from relevant Protocol-Product-Batch combo bucket



### **Shipment Authorization Record**

To: Associated Shippers of Mississauga

Attn: KEMAL ILGAZ

Ship the below products to: Contact:

Maria de Fatima Hospital Joaquim Furtado 22225 Dundas St. West (416) 555 0977

Toronto, M3M3M5 ON, Canada jfurtado@mdfh.on.ca

Product	Batch	Quantity	Unit	Kit #	Rcp Ack
Cotton Balls	MCB01	2	Kit	1801, 1802	
Momyx Moisturizer	MCMM33	6	Вох		
Momyx Formula Box	MMFB21	4	Kit	2104, 2105,	
				2106, 2107	
Cat-AADD Brochure	AADD1	24	Brochure		

#### **ELECTRONICALLY SIGNED BY:**

Beatrix Knopf, Director of Clinical Supplies, 15/SEP/2008 15:08:23 EDT

UserID: ROP RowID: F-4476229 Timestamp: 15/SEP/2008 19:08:23 GMT



# **Question and Answers**

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# Biography

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