The perpetual cycle of integration

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Titian Software

- Founded in 1999
- Titian HQ in London, UK, with further offices in Westborough, MA, US and Wroclaw, Poland. Staff of 95+..
- Specialising in software for sample management
- Mosaic is our product suite for sample management
- Global helpdesk for support means high up-time for customer systems with support teams in Europe, USA and China
Mosaic

• Mosaic is our product suite for sample management
  • The first version of Mosaic went live in 2002
  • Current release is Mosaic 7.0

• Traditionally Mosaic has been configured to each customer’s needs
  • Pre-configured packages now available for simple self-service freezer management and for centralised sample bank operational models

• Many new features added to Mosaic 7.0 – please talk to our representatives for more details – not enough time today!!
Mosaic – Customers

- Allergan
- Amgen
- AstraZeneca
- Bayer Schering
- BioAscent
- BMS
- Boehringer Ingelheim
- Charles River Laboratories
- Chempartner
- Esteve
- Evotec
- Forum
- Galapagos
- Genentech
- Gruenenthal
- GSK
- Janssen
- Inventiva
- Lilly
- Merck
- Merck Serono
- Pfizer
- Pharmaron
- Roche
- Sanofi Aventis
- Servier
- University of Liverpool
- University of Norwich
- Vernalis
- Wuxi

13 out of the Top 20 Biopharma Contract Research Organizations

Research Hospitals

60+ major site implementations
The perpetual cycle of integration
Labcyte Echo Platform

- Mosaic already integrates with Labcyte Access, POD and standalone instruments for plates
- Improved Echo Dose Response Integration
  - Mosaic records all transfers
  - Intermediate plates registered and available
  - Control plate transfers are also recorded
- Planned development of support for acoustically dispensable tubes
  - In conjunction with Labcyte and AstraZeneca
  - Tube racks used as source
  - Survey information will be used to update source volumes
  - Committed; available in Q1 2018 when hardware will also be available
Online Mosaic - Labcyte Tempo Fulfilment Module

- New Mosaic desktop application to initiate Tempo runs based on Mosaic orders
- Dynamic creation of Tempo run definition files based on Mosaic workflow
  - Automatic selection of Echo protocol
- Fewer Echo protocols to maintain, reduce chance of operator errors
- Fewer clicks to start run
  - In Mosaic, no need to go through workflow and offline run initiation pages
  - In Tempo, no need to select protocol, Mosaic pick list, or enter the Mosaic RunId
- Support for Labcyte Acoustic Tube
- Available Q4 2017
TTP Mosquito: New Translator

- Offline Processing “Translator” is available to:
  - Generate Mosquito specific run definition file
  - Process log files (using file sweeper)
- Improves on current mechanism:
  - Reduced operator interaction (fewer clicks)
  - Likelihood of errors reduced
  - Fewer protocols required
  - Real liquid handling feedback from instrument
- Workflow operations:
  - Serialise – start from top concentration wells and populate lower doses in plate
  - Replicate – stamp out
  - Only one operation per offline run
Tecan Fluent

- Fluent is the latest evolution of liquid handlers from Tecan
- New software, FluentControl, needs Titian development to integrate
- Same functionality as EVOware integration, e.g.
  - Fixed and disposable tips
  - Varispans and block head
  - Liquid level detection
  - Etc.
- VSLH driver available Q2 2017
Hamilton Verso

• Verso is a new medium- to large-capacity automated store
• Existing Hamilton ASM (previously “TekCel”) store integration is different
  • ASM used for smaller capacities
• Available for Mosaic 6.0
• Final testing stages
Hamilton SAM / BiOS

- Hamilton intends the Instinct S API to support BiOS and SAM stores, as well as Verso
- Therefore, Verso driver should automatically be a BiOS and SAM driver
  - Hamilton have some changes to make
  - Changes would need to be rolled out to existing stores to support integration
TTP Arktic

- Existing TTP comPOUND Mosaic integration has been extended to support the Arktic
- Available now in Mosaic 6.0
Automated Stores

- Brooks SampleStore II
- Hamilton ASM (previously TekCel)
- Hamilton BiOS
- Hamilton SAM
- Hamilton Verso
- Matrical MiniStore
- Modula Store
- Nexus Universal Store
- Remp LSS/MSS
- Remp SSS
- RTS Automated Store
- TAP Haystack
- TTP Labtech comPOUND
- TTP Labtech arktic
The complete list !....

Manual Stores
• Kardex Shuttle

Software Integrations
• Accelrys Biological Registration
• Accelrys Isentris
• Accelrys ISIS
• ChemAxon Chemical Registration Toolkit
• Genedata Screener
• IDBS ActivityBase
• IDBS ChemReg
• Internally developed chemical registration and screening data analysis systems
• Symyx ELN
• Watson LIMS
The complete list !....

Dry Powder Handling

- Almost any label printer (via BarTender)
- Any “keyboard wedge” barcode reader
- Mettler balances
- Mettler-Toledo FlexiWeigh
- Sartorius balances

2D Tube Sorting

- BioMicroLab XL9
- BioMicroLab XL20
- BioMicroLab XL100
The complete list !....

Liquid Handling
- Agilent BioCel
- Agilent BenchCel
- Agilent Bravo
- Beckman FX
- Beckman Multimek
- Beckman NX
- CyBio CyBi-Well
- Hamilton STAR
- Hamilton STARlet
- Hamilton STARplus
- HighRes Biosolutions Cellario
- HighRes Biosolutions MicroStar
- Labcyte Echo
- Labcyte POD
- Labcyte Access
- Matrical AutoMap
- Perkin Elmer MultiPROBE II

- REMP APR
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- Labcyte Access
- Matrical AutoMap
- Perkin Elmer MultiPROBE II
- REMP APR
- REMP APR
- TAP BasePlate
- Tecan Genesis
- Tecan EVO
- Tecan Fluent
- Thermo Scientific Matrix PlateMate/PlateMate+
- TTP Labtech mosquito
- Zinsser Lissy
The complete list !....

2D Tube Scanning

- Any “keyboard wedge” 2D barcode reader
- BioMicroLab SampleScan Mini 2D Barcode Reader
- BioMicroLab SampleScan Mini Automated 2D Barcode Reader
- BioMicroLab SampleScan 96 Barcode Reader
- BioMicroLab SampleScan 96 Automated Barcode Reader
- BioMicroLab SampleScan HS Barcode Reader
- BioMicroLab SampleScan E-Series Barcode Reader
- BioMicroLab SampleScan E-Series Automated Barcode Reader
- FluidX Impression Rapid Rack Scanner
- FluidX Perception Rack Reader
- FluidX Xtr-96 2D Barcode Reader
- Micronic RackScanner 2D Barcode Reader
- RVSI/Siemens Vial Reader (Microscan MS-96 Vial Reader) 2D Barcode Reader
- RVSI/Siemens Vial Reader (also Microscan MS-96 Vial Reader)
The complete list !....

2D Tube Scanning…continued…

- Thermo Scientific Matrix VisionMate 96 2D Barcode Reader
- Thermo Scientific Matrix VisionMate HS 2D Barcode Reader
- Thermo Scientific Matrix VisionMate SR 2D Barcode Reader
- Ziath DataPaq Cube Scanner
- Ziath DataPaq Deep Focus Scanner
- Ziath DataPaq Express Scanner
- Ziath DataPaq High Speed Scanner
- Ziath DataPaq Multirack Scanner
- Ziath DataPaq Single Tube Scanner
The complete list !....

2D Tube Sorting
- BioMicroLab XL9
- BioMicroLab XL20
- BioMicroLab XL100

Other
- Agilent V Code labeller
- Agilent BenchCel labeller
- Brooks Tube Auditor
- BarTender labelling
- CyBio CyBi-Print labeller
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From everyone at Titian,

Enjoy the evening!