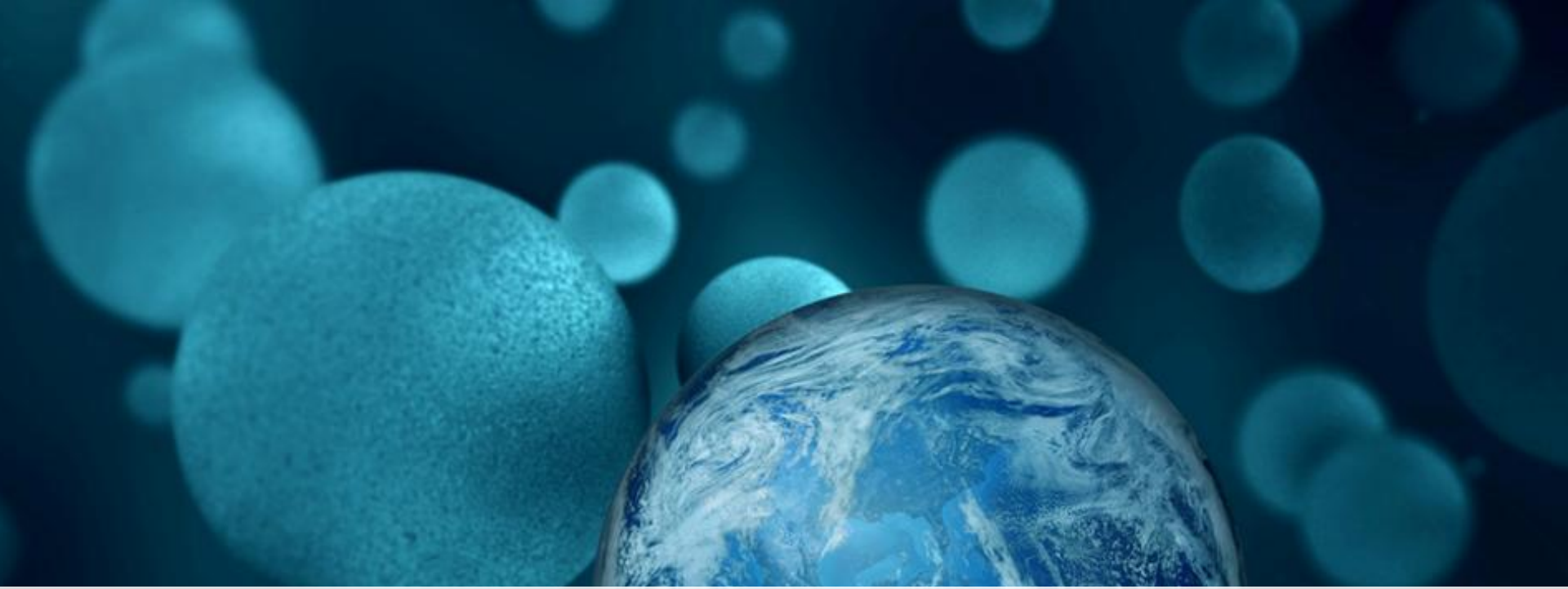


ThermoFisher SCIENTIFIC

Mobile LIMS - Laboratory management and process execution on the move

Bob Poole
Director of Sales, EMEA

Thermo Scientific™ SampleManager LIMS™ Mobile

- SampleManager Mobile
- Modules and Features
- Look and Feel
- Hardware
- Architecture
- What‘s next?

ThermoFisher SCIENTIFIC

Thermo Scientific™ SampleManager LIMS™ Mobile

- What is SampleManager Mobile?
- Modules and Features
- Look and Feel
- Hardware
- Architecture
- What‘s next?

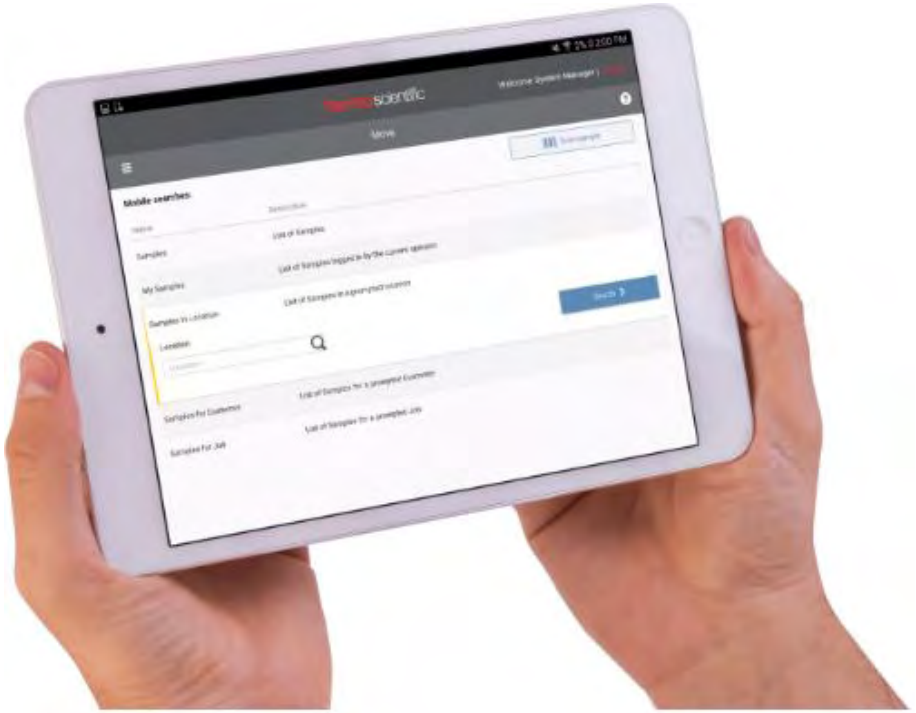
ThermoFisher SCIENTIFIC

What is SampleManager Mobile?

A Native Mobile App for use on tablets

Delivered via the app stores - for iOS, Android and Windows OS

Configured using the SampleManager client



ThermoFisher SCIENTIFIC

Versions



Mobile technology to give you more control over your LIMS

- Version 1:
  - Login using SampleManager credentials
  - Logging of user actions
  - Server setup
  - Change Field Values (Explorer Aux)
  - Result Entry by Test/Sample
- Version 2 includes:
  - Lab Execution
  - Mobile App Themes
  - Mobile Branding

ThermoFisher SCIENTIFIC

What is SampleManager Mobile?

Modules and Features

Look and Feel

Hardware

Architecture

What‘s next?

ThermoFisher SCIENTIFIC

Modules

Modules are the functional capabilities available in the app

- "Explorer Aux" Capability
  - **Module** to allow 1 or more fields to be updated on 1 or more records.
- Result Entry
  - **Module** to be able to do Result Entry on 1 or multiple existing Samples or Tests within the SampleManager database.
- Lab Execution
  - **Module** to be able to execute Lab Methods or resume existing Lab Executions



ThermoFisher SCIENTIFIC

The available Modules can be configured using the SampleManager client to deliver App Features

- Available examples:
  - Move Location (Explorer Aux module)
    - Change existing location on 1 or multiple samples
  - Receive Samples (Explorer Aux module)
    - Business logic applied to only show Unavailable samples
  - Result Entry (Result Entry module)
    - By Sample or Test
  - Create Execution (Lab Execution)
    - Start a new Execution from an existing Method
  - Continue Execution (Lab Execution)
    - Find running executions and resume



ThermoFisher SCIENTIFIC

Ensure consistent way of working throughout the app

- **Searches** are configured folders connected to a feature within the SampleManager Client
  - A Search will only return the records that the selected featured can be executed upon
  - Searches are the equivalent of Folders in the client application and are configured in the same way
- In addition to browsing for records, the camera of the tablet can be used to scan 1 or multiple barcodes to select records



ThermoFisher SCIENTIFIC

- What is SampleManager Mobile?
- Modules and Features
- **Look and Feel**
- Hardware
- Architecture
- What‘s next?

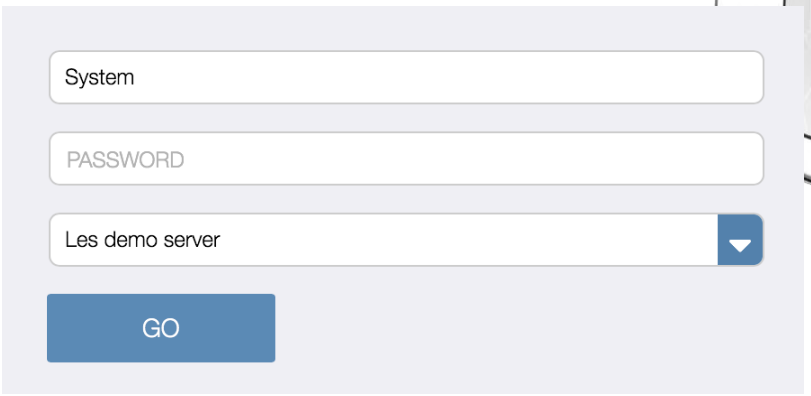
ThermoFisher SCIENTIFIC

Login

Login using SampleManager credentials

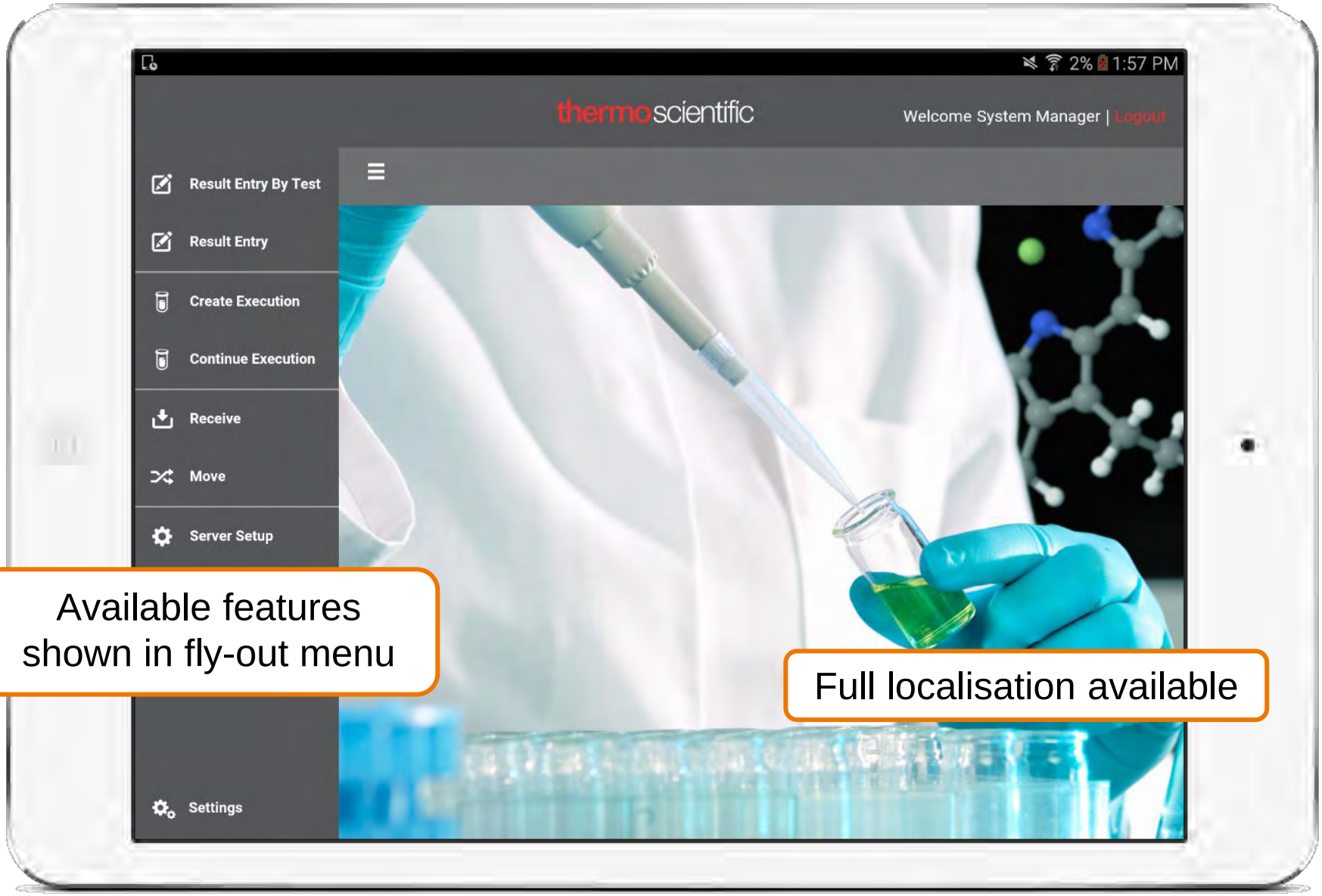
Add multiple servers, such as Development, Test or Production





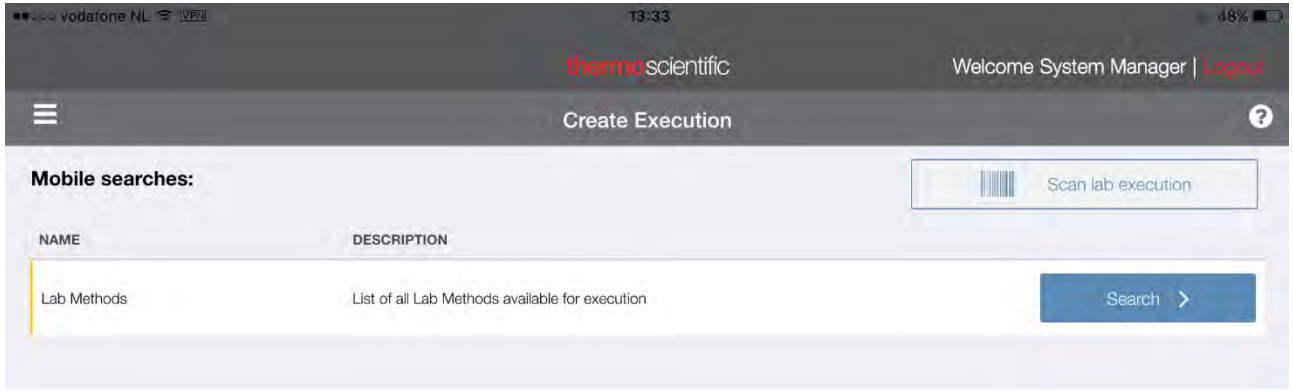
ThermoFisher SCIENTIFIC

Features

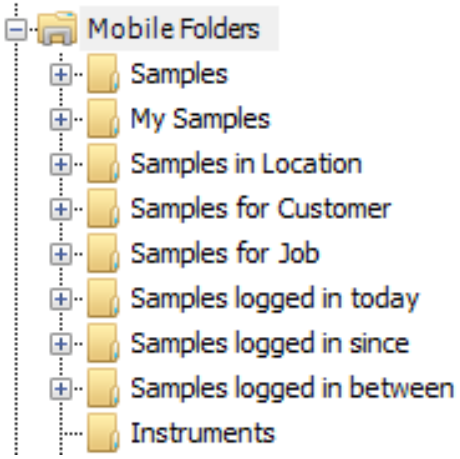


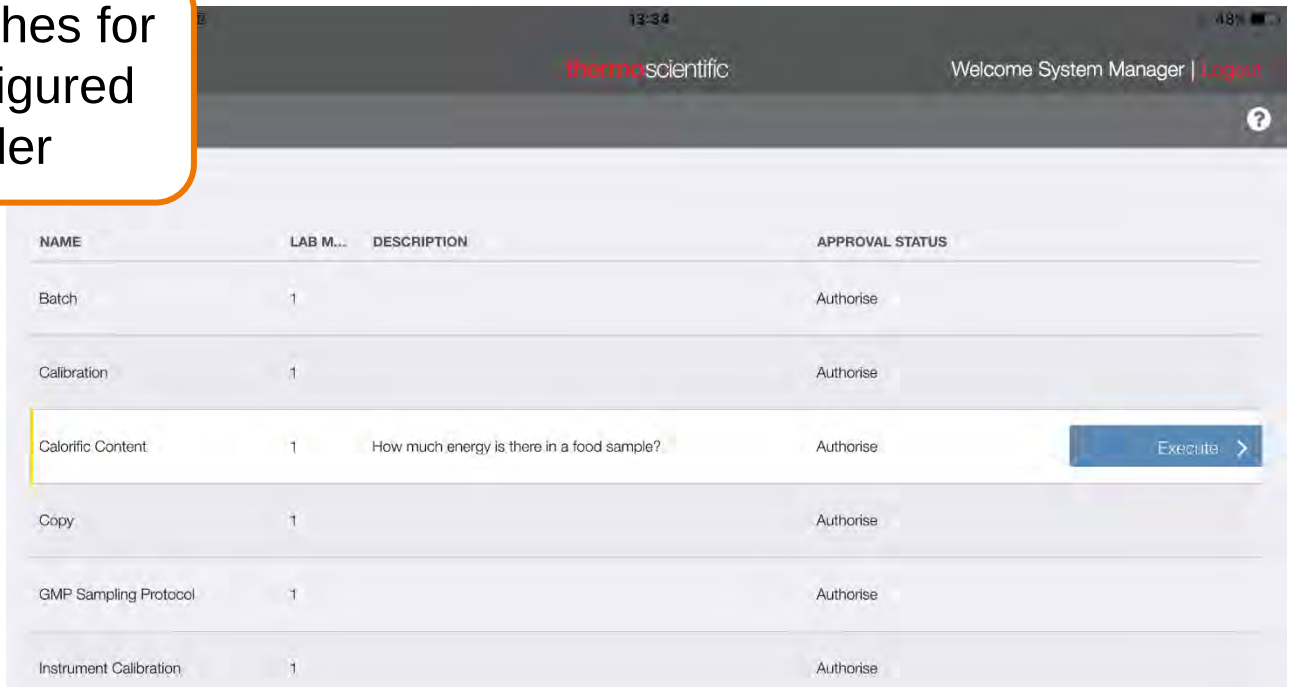
ThermoFisher SCIENTIFIC

Search execution



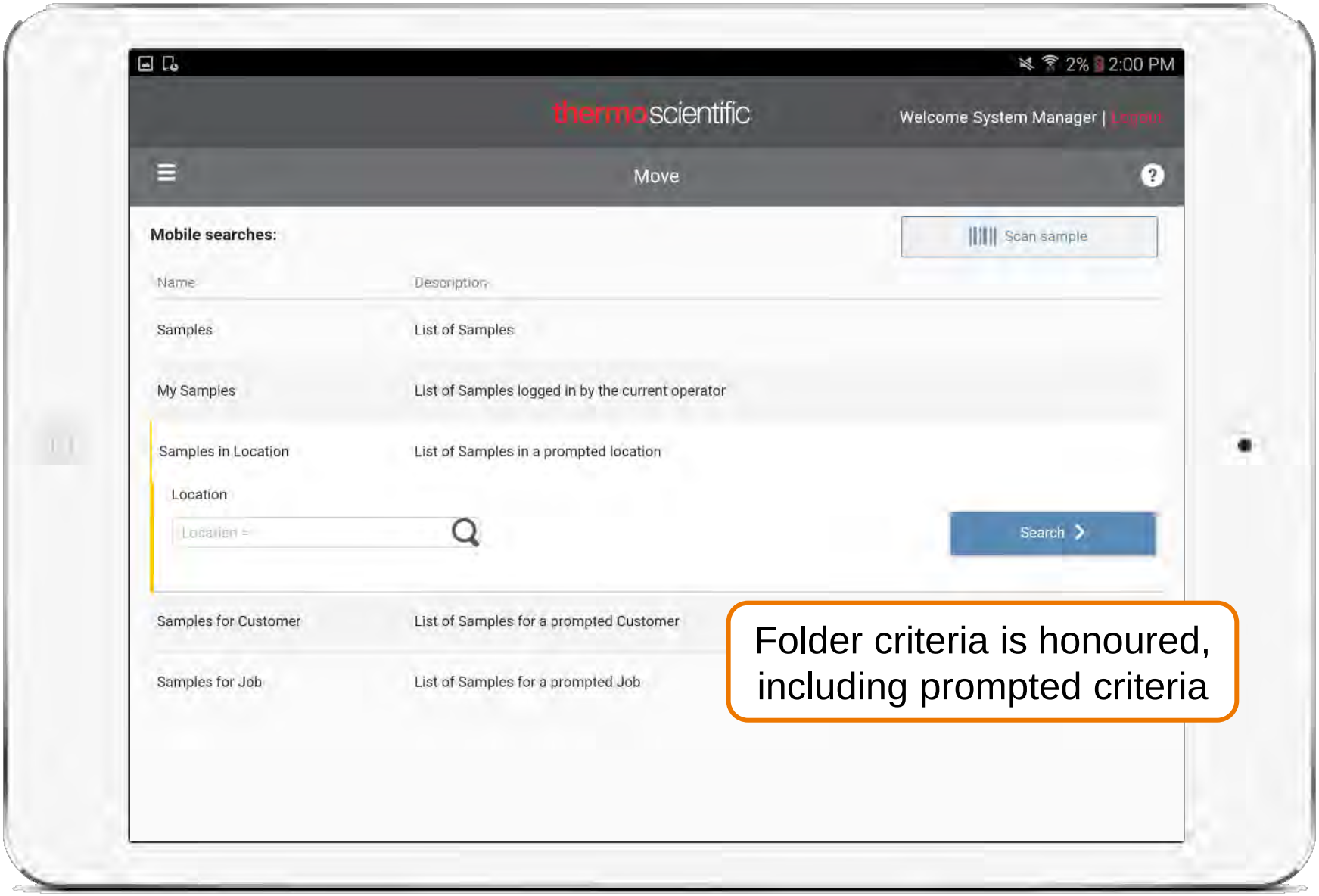
The available searches for a Feature are configured against the folder





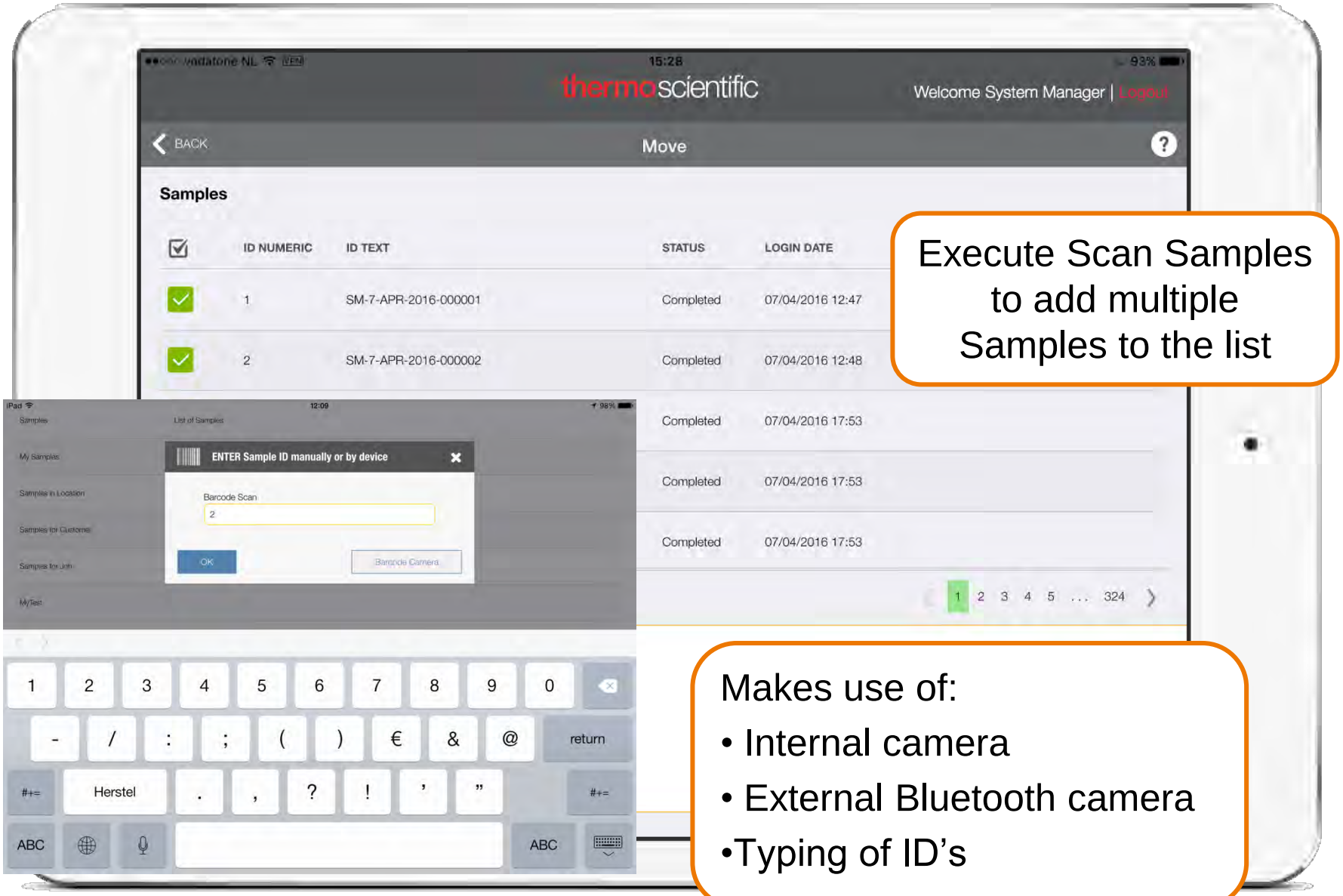
ThermoFisher SCIENTIFIC

Search Execution



ThermoFisher SCIENTIFIC

Sample Scanning



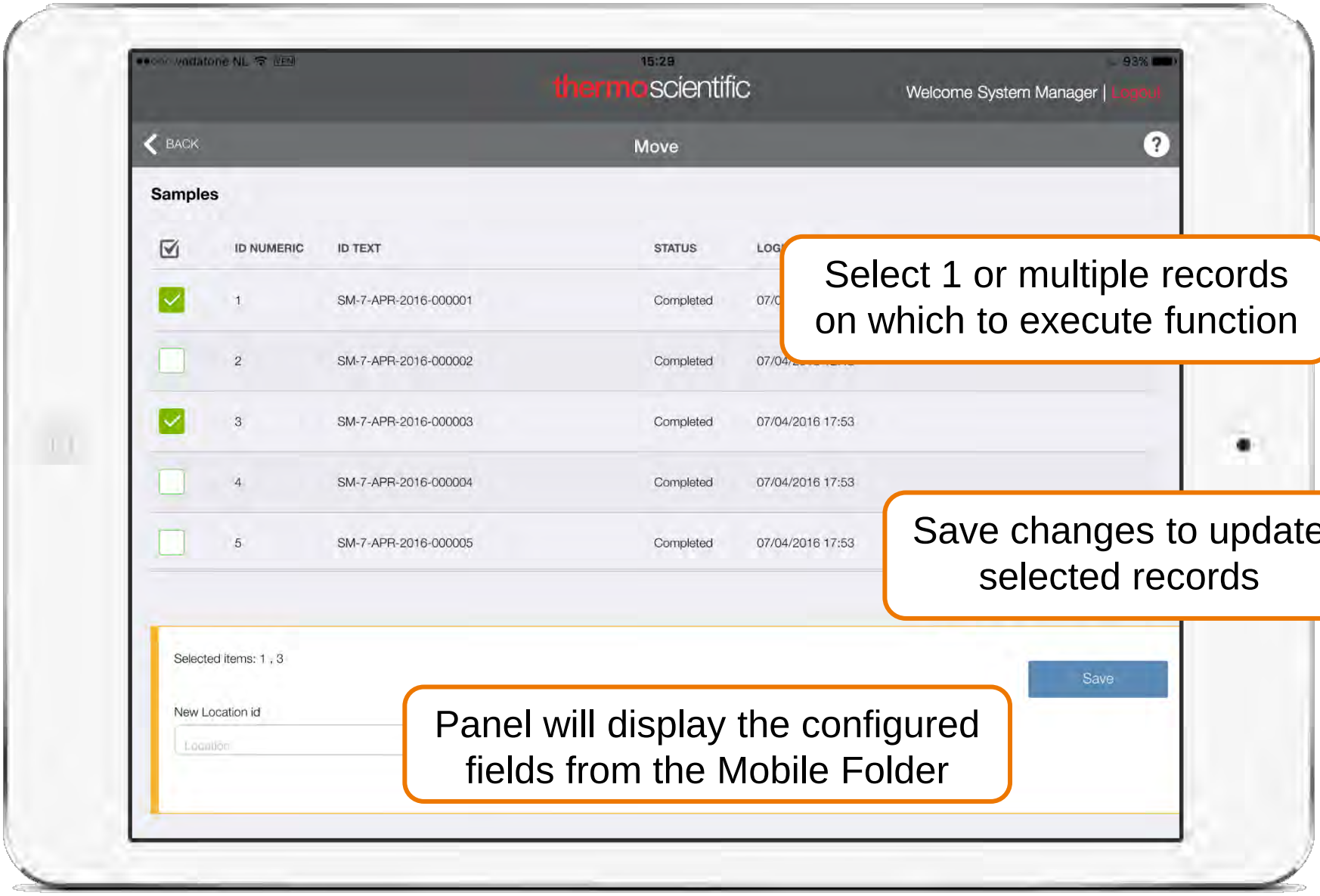
Execute Scan Samples to add multiple Samples to the list

Makes use of:

- Internal camera
- External Bluetooth camera
- Typing of ID's

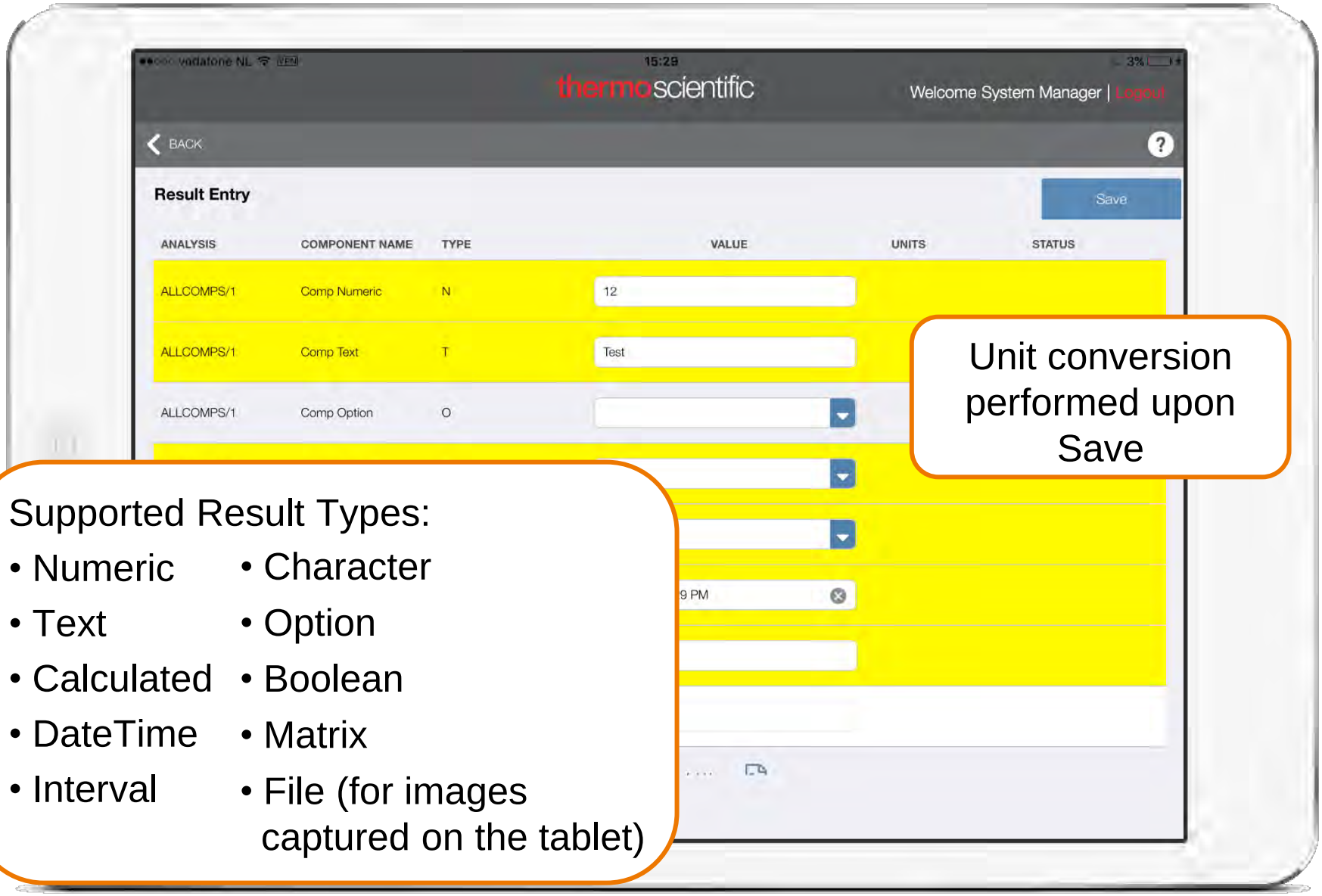
ThermoFisher SCIENTIFIC

Function Execution



ThermoFisher SCIENTIFIC

Result Entry



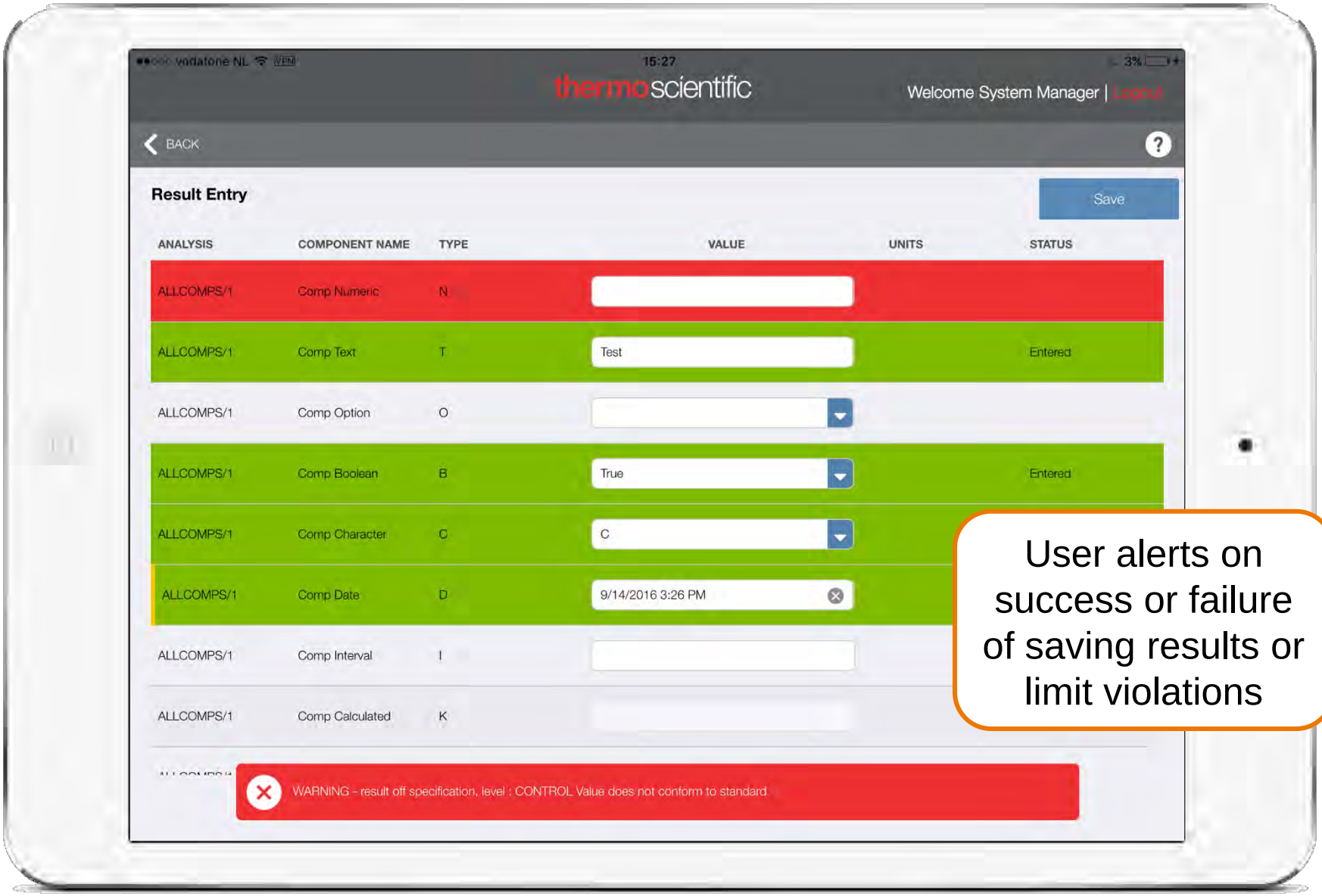
Unit conversion performed upon Save

Supported Result Types:

- Numeric
- Text
- Calculated
- DateTime
- Interval
- Character
- Option
- Boolean
- Matrix
- File (for images captured on the tablet)

ThermoFisher SCIENTIFIC

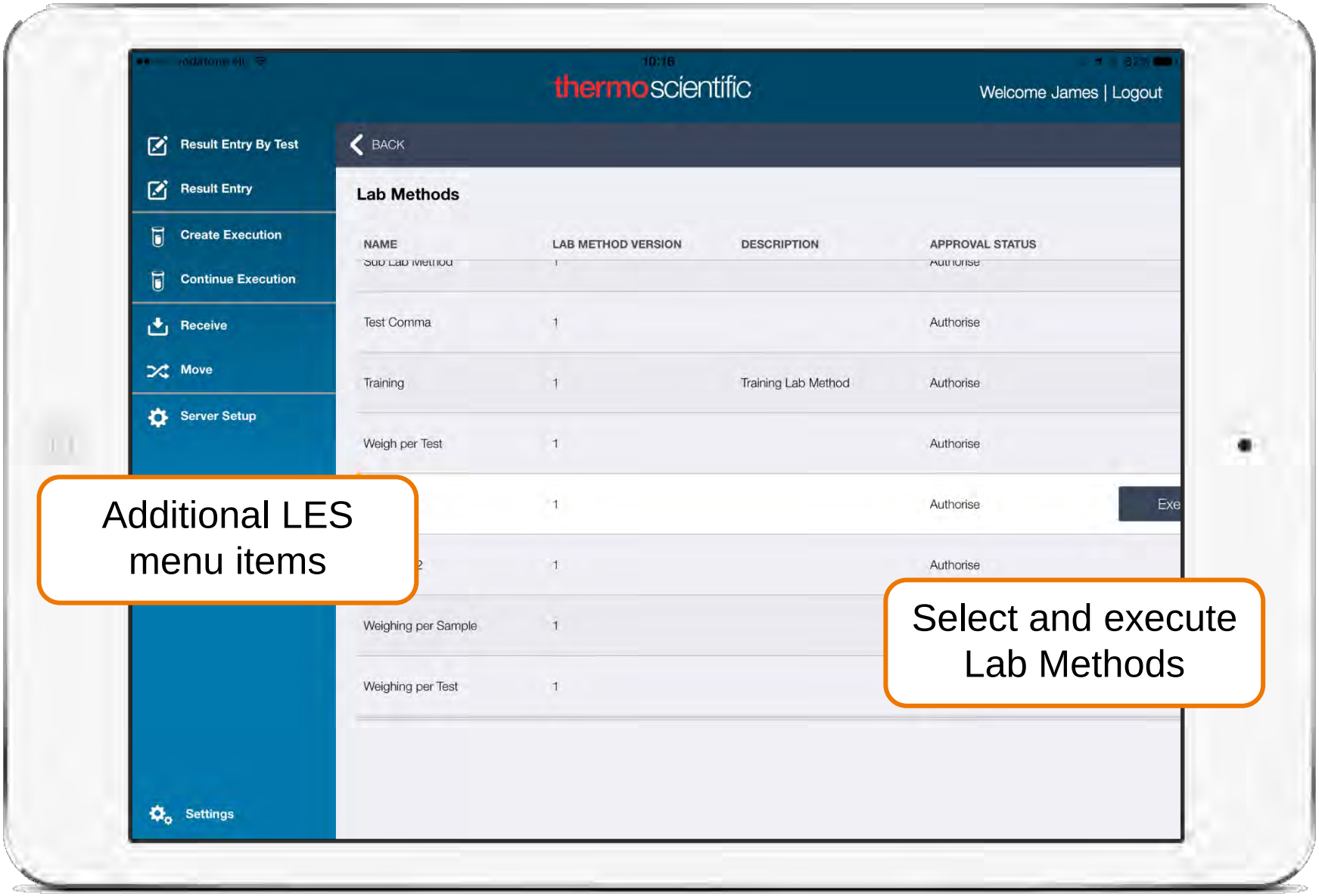
Result Entry



User alerts on success or failure of saving results or limit violations

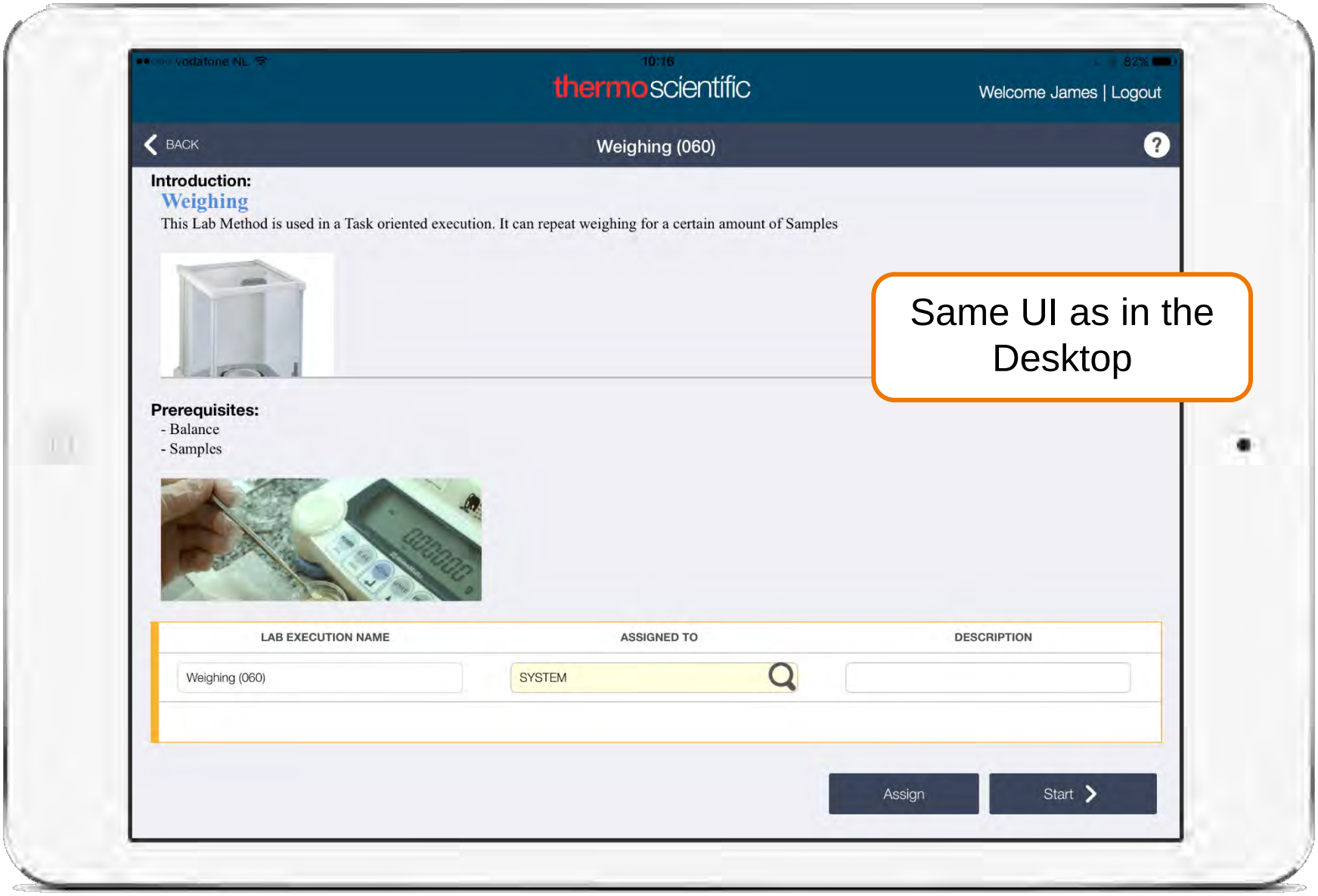
ThermoFisher SCIENTIFIC

Lab Method Selection



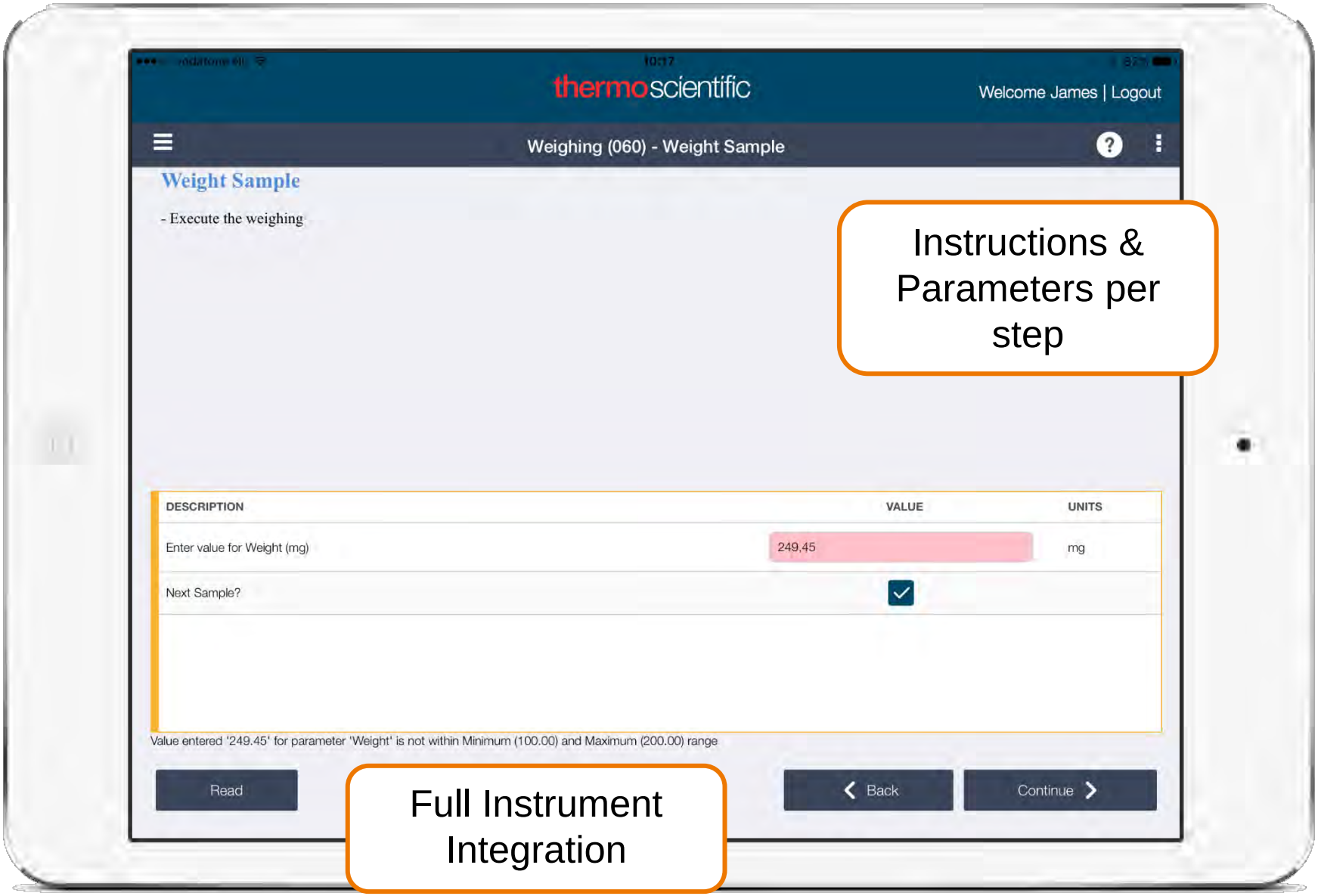
ThermoFisher SCIENTIFIC

Lab Execution Creation



ThermoFisher SCIENTIFIC

Lab Execution



ThermoFisher SCIENTIFIC

- What is SampleManager Mobile?
- Modules and Features
- Look and Feel
- **Hardware**
- Architecture
- What‘s next?

ThermoFisher SCIENTIFIC

Hardware

- iOS (Apple)
  - iPad Pro 12.9
  - iPad Air 2
  - iPad Mini 4



- Android (Samsung)
  - Galaxy Tab S 10.5
  - Galaxy Tab S2 8.0
  - Galaxy Tab S2 9.7



- Windows (Microsoft)
  - Surface Pro 3
  - Surface Pro 4



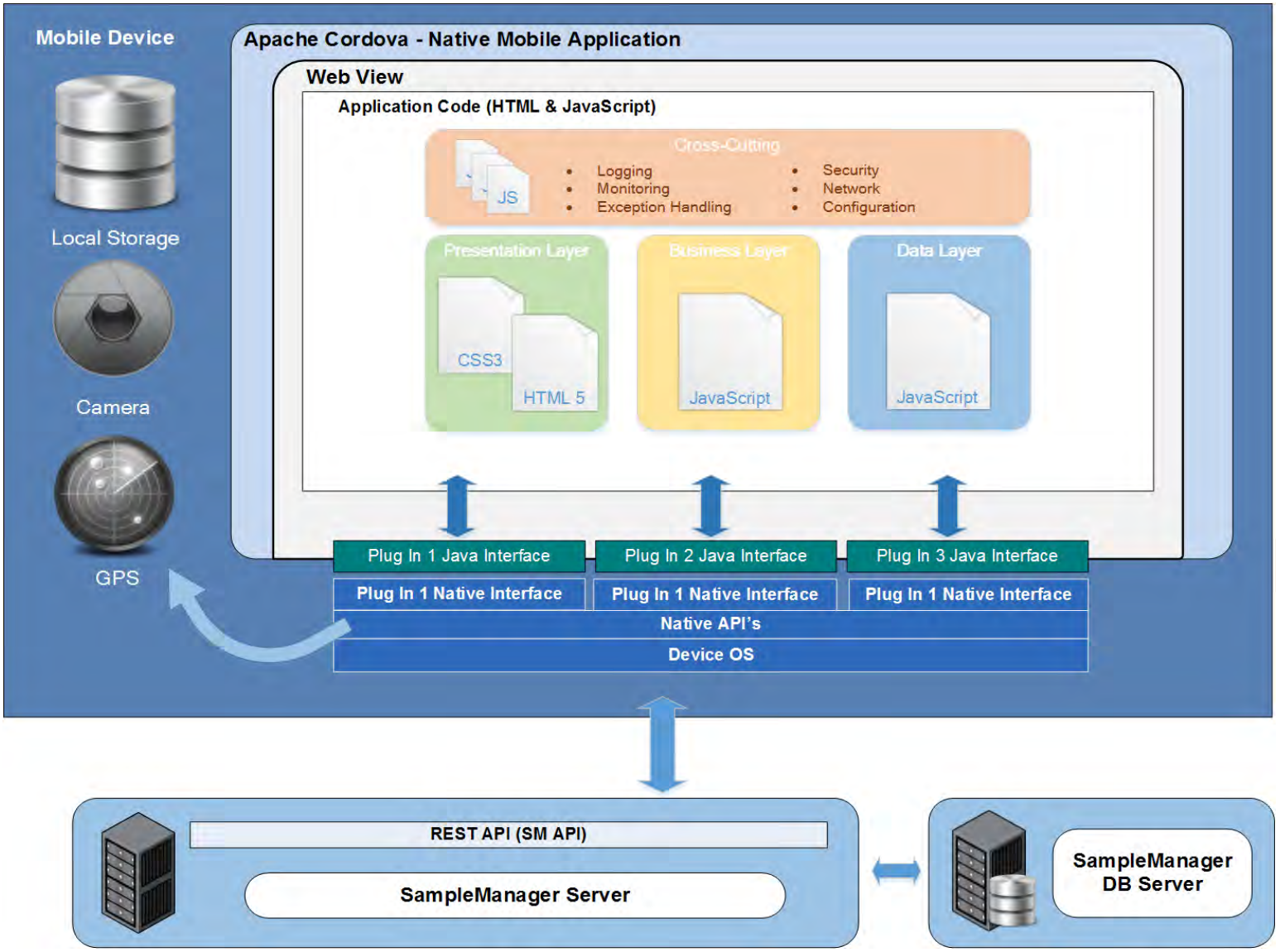
- SampleManager Mobile is not tested against Mobile phones because the functionality is not suitable for the small screen size

ThermoFisher SCIENTIFIC

- What is SampleManager Mobile?
- Modules and Features
- Look and Feel
- Hardware
- **Architecture**
- What‘s next?

ThermoFisher SCIENTIFIC

Architecture



ThermoFisher SCIENTIFIC

- What is SampleManager Mobile?
- Modules and Features
- Look and Feel
- Hardware
- Architecture
- What‘s next?

ThermoFisher SCIENTIFIC

What's next?

Possible new features

- Offline Capabilities
- Test Assignment
- Workflow Execution
- Workflow Login
- Report Viewing
- KPI's
- DataManager linkage



- Mobile App can be released outside of the SampleManager releases

- What is SampleManager Mobile?
- Modules and Features
- Look and Feel
- Hardware
- Architecture
- What‘s next?

ThermoFisher SCIENTIFIC