

Uniting Your Manual and Automated Test Efforts

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Presenters

The presenters today are:

- **Nick Olivo** – Long time automation engineer and TestComplete expert.
- **Steve Miller** – 25 years of experience with software development and testing and Software Planner expert.

House Keeping Notes

- Stick around at the end of the webinar -- we will provide a link for you to fill out a survey.

If you fill that out, you will be entered into a drawing for a **FREE Flip Video Camcorder** – to be mailed on Friday March 26.





House Keeping Notes

- We will be recording the session and will distribute the recorded session via email
- Feel free to ask any questions using the Q&A box – we have a large audience so any questions we can't answer within the webinar, we will send answers along with the recorded session



Agenda

- How to identify test cases that would be most valuable to automate
- How to best organize your automated test cases from TestComplete
- How to create manual regression test cases that cannot be automated



Agenda

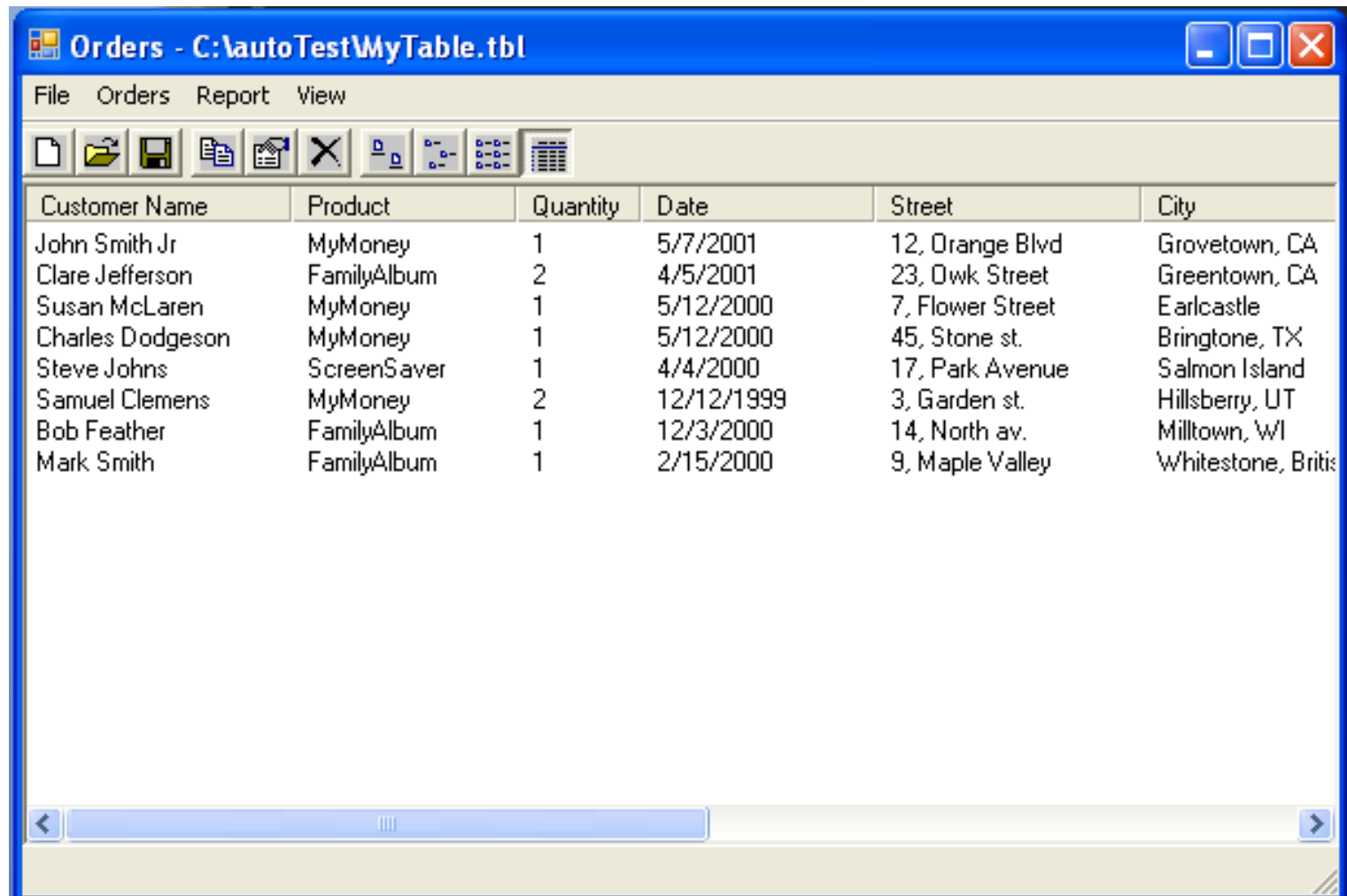
- How to use Software Planner for traceability (test case to requirements coverage)
- How to create defects from failed tests
- How to use dashboards to track test progress
- What key metrics you can use to determine if your software is ready for production



Using the Orders Application

- For today's webinar, we will use an **Orders Application** for our examples.
- We will show how we organized both manual and regression tests for the prior release of the Orders Application.
- We will demonstrate how to create new manual and automated tests for a new version of the Orders Application.

Using the Orders Application



The screenshot shows a window titled "Orders - C:\autoTest\MyTable.tbl". The window has a menu bar with "File", "Orders", "Report", and "View". Below the menu bar is a toolbar with icons for file operations (New, Open, Save, Print, Close, Copy, Paste, Undo, Redo) and a grid icon. The main area of the window contains a table with the following data:

Customer Name	Product	Quantity	Date	Street	City
John Smith Jr	MyMoney	1	5/7/2001	12, Orange Blvd	Grovetown, CA
Clare Jefferson	FamilyAlbum	2	4/5/2001	23, Oak Street	Greentown, CA
Susan McLaren	MyMoney	1	5/12/2000	7, Flower Street	Earlcastle
Charles Dodgeson	MyMoney	1	5/12/2000	45, Stone st.	Bringtone, TX
Steve Johns	ScreenSaver	1	4/4/2000	17, Park Avenue	Salmon Island
Samuel Clemens	MyMoney	2	12/12/1999	3, Garden st.	Hillsberry, UT
Bob Feather	FamilyAlbum	1	12/3/2000	14, North av.	Milltown, WI
Mark Smith	FamilyAlbum	1	2/15/2000	9, Maple Valley	Whitestone, Britis



What to Automate?

- Start Small
- Smoke Test
- Build up to a Regression Suite



Criteria for Test Automation

1. Frequently performed
2. Time consuming
3. High precision



Organizing Test Cases from TestComplete

- Small Efforts - Folders
- Large Efforts – project suite w/multiple projects
- Source Control



Running Tests in Software Planner

- No changes to automated tests
- Run on any system with TestComplete
- Test can be scheduled
- View results in the dashboard



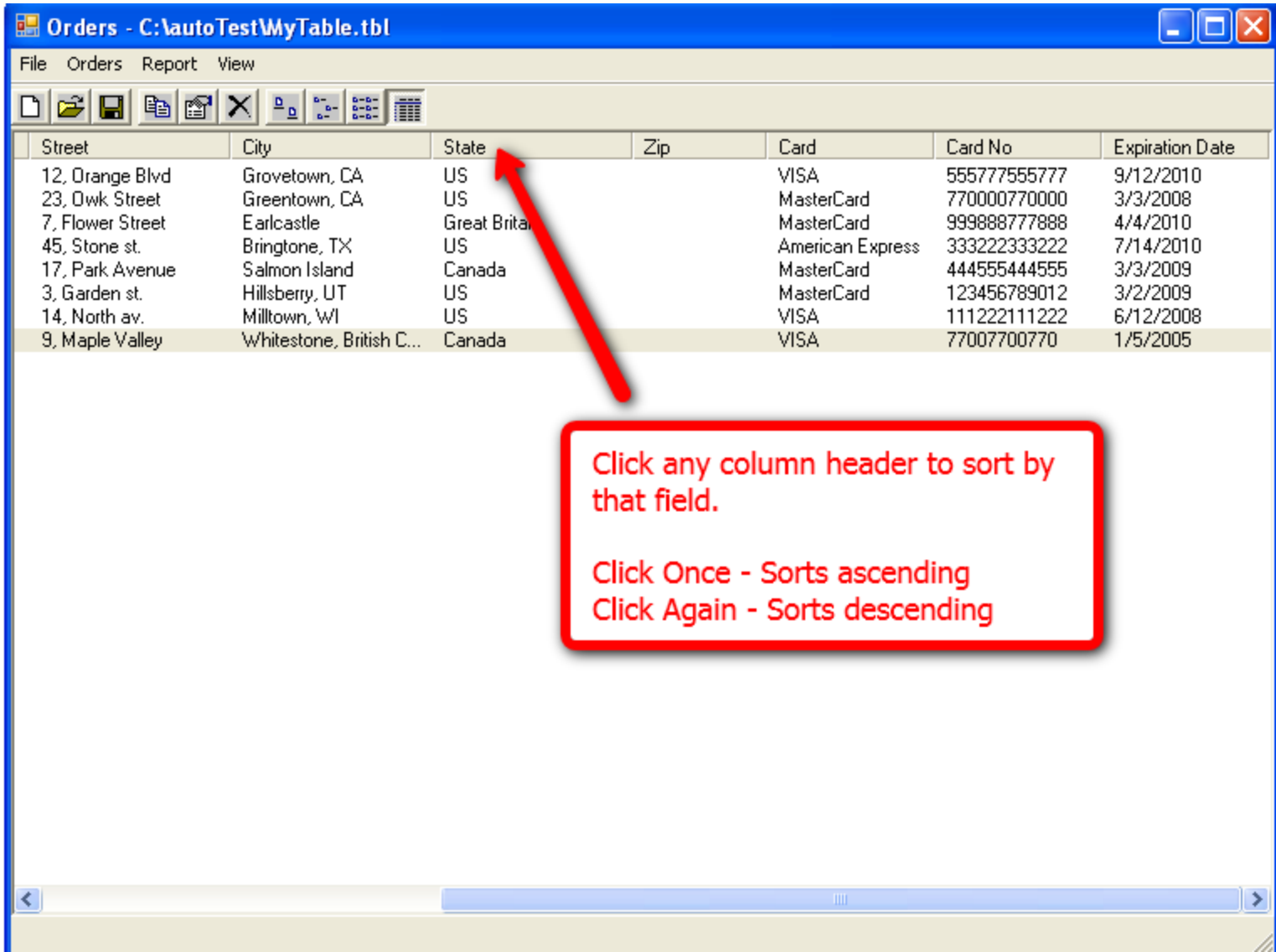
Planning our Next Release (Release 2.0)

Orders Application Release 2.0

Enhance the Orders Application with these new features:

- Allow Sorting of Orders on the Order Listing
- Send Email Feature

Planning our Next Release (Release 2.0)



Orders - C:\autoTest\MyTable.tbl

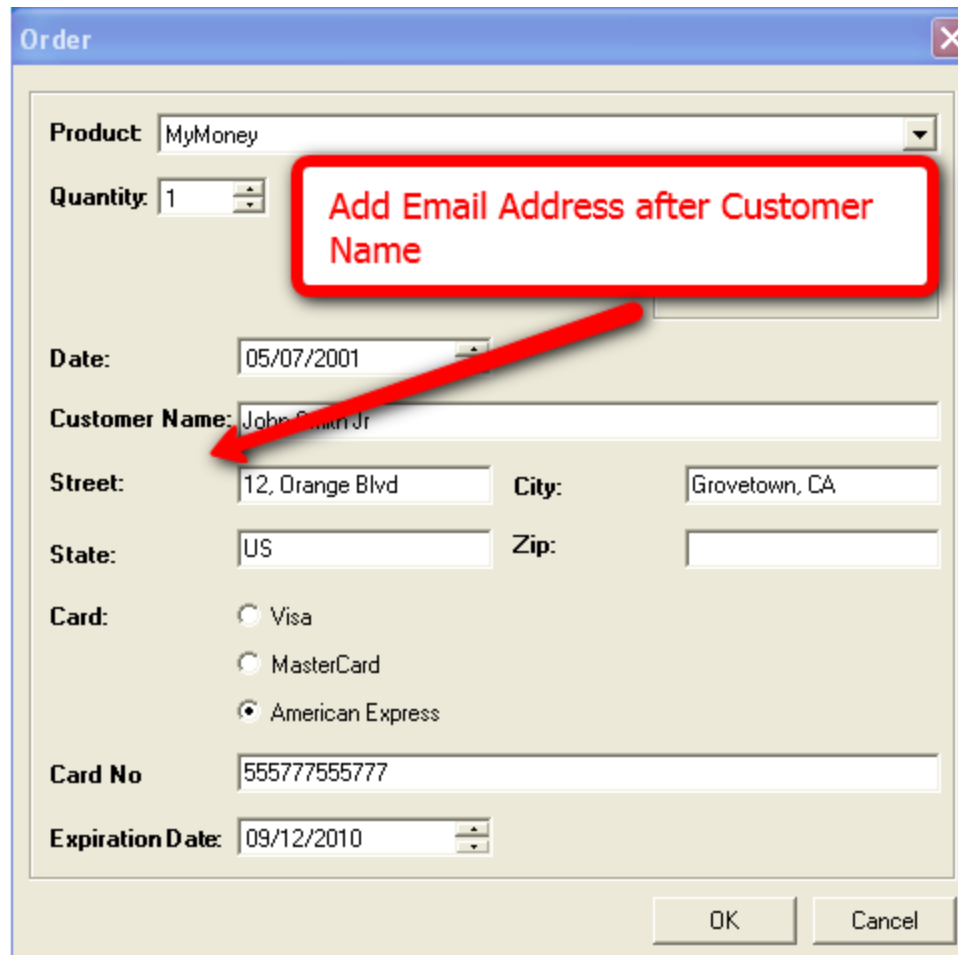
File Orders Report View

Street	City	State	Zip	Card	Card No	Expiration Date
12, Orange Blvd	Grovetown, CA	US		VISA	555777555777	9/12/2010
23, Owk Street	Greentown, CA	US		MasterCard	770000770000	3/3/2008
7, Flower Street	Earlcastle	Great Britain		MasterCard	999888777888	4/4/2010
45, Stone st.	Bringtone, TX	US		American Express	333222333222	7/14/2010
17, Park Avenue	Salmon Island	Canada		MasterCard	444555444555	3/3/2009
3, Garden st.	Hillsberry, UT	US		MasterCard	123456789012	3/2/2009
14, North av.	Milltown, WI	US		VISA	111222111222	6/12/2008
9, Maple Valley	Whitestone, British C...	Canada		VISA	77007700770	1/5/2005

Click any column header to sort by that field.

Click Once - Sorts ascending
Click Again - Sorts descending

Planning our Next Release (Release 2.0)



The screenshot shows a Windows-style dialog box titled "Order". It contains several input fields for an order form. A red callout box with a white background and a red border is positioned over the "Customer Name" field. The text inside the callout box reads "Add Email Address after Customer Name". A red arrow points from the bottom of the callout box to the "Customer Name" field.

Order

Product: MyMoney

Quantity: 1

Date: 05/07/2001

Customer Name: John Smith Jr

Street: 12, Orange Blvd City: Grovetown, CA

State: US Zip:

Card: Visa MasterCard American Express

Card No: 555777555777

Expiration Date: 09/12/2010

OK Cancel



Planning our Next Release (Release 2.0)

Test Plan for Release 2.0

- Create Positive Tests
- Create Negative Tests
- Create Performance Tests

For a Testing Best Practice Document, see:

<http://www.softwareplanner.com/TestBestPractices.pdf>

Managing Test Case Traceability

How can we ensure that each new requirements gets fully tested? **Requirement Traceability!**













SoftwarePlanner
www.softwareplanner.com

Home Project Management Requirements Test Cases Defects Collaboration Lists Reports Setup

Dashboard Show Requirements Traceability My Hours

Project: Newsletter Project (Agile)

(No Filter) Quick Search Filters Actions Add New Fast Edit Choose Fields

Actions		Id	Title	Status
  	2 0 0	327874	OA-0001 Order Listing screen	Approved
			1 Defect (QA in Next Release) 6 Test Cases (Some Failed) Link items...	
  	1 0 0	327875	OA-0002 Add New Order	Approved
			2 Test Cases (All Passed) Link items...	
  	1 0 0	327876	OA-0003 Edit an Existing Order	Approved
			2 Test Cases (All Passed) Link items...	
  	1 0 0	327877	OA-0004 Delete an Existing Order	Approved
			2 Test Cases (All Passed) Link items...	

Automatically Creating Defects

Remove the tedium for defect creation –
automatically create defects from failed test cases!

The screenshot shows a web-based interface for editing a test case. The title bar reads "Edit Test Case - Test Runs/Release 1.0/Sprint 1". Below the title bar is a navigation menu with options: Actions, Choice Lists, Custom Fields, New Defect, Fast Edit, and Help. A secondary navigation bar includes "Return To Listing", "Printer Friendly", "Notes and Files", and a pagination control showing "Item 11 of 12". A tabbed interface below the navigation bar has tabs for "Edit", "History", "1 Note", "Files", "Scheduled Events", "Fast Edit History", and "Tasks". The main content area is titled "Test Case #922701 - Orders Listing - Test List Mode" and includes a "Show linked items" link. The "Linked Items" section displays a tree view of related items: "1 Requirement (Approved)", "1 Defect (QA in Next Release)", and "1 Defect (QA in Next Release)". A red callout box with a white background and red border points to the checkbox "Automatically Generate Defect upon Failed Test Case?", which is currently checked. The callout box contains the text "Automatically create a defect from a failed test case". At the bottom of the interface are three buttons: "Cancel", "Submit", and "Delete".

Tracking Test Progress with Dashboards

Welcome to Software Planner. Use the tab across of the top of the page to navigate to areas of the software.

Analyze Defect Trending

Test Cases

Folder: Integrators 1.0

Analyze Test Case Trending

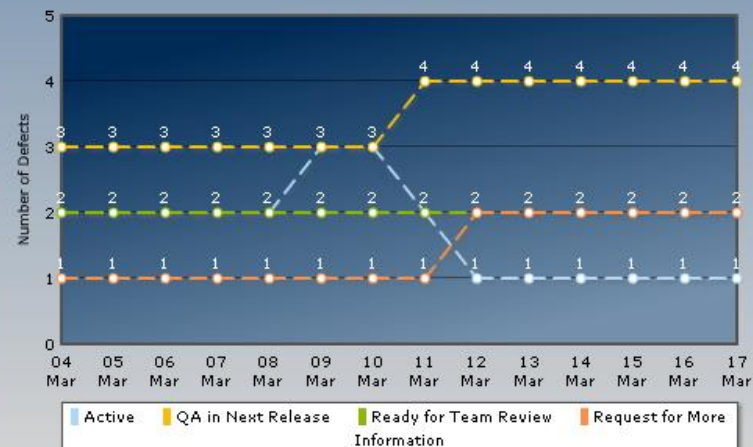
Test Case Trending (Current Project)
Excludes Closed (0 items)



Defects

Folder: Integrators 1.0

Defect Trending (Current Project)
Excludes Closed (20 items)



Tracking Test Progress with Dashboards

Welcome to the dashboard. Many graphs allow drill downs by clicking the graph.

Defects

Filter: (No Filter)

Folder: (All Folders)

Analyze Defect Status

Defects by Status (Current Project) Excludes Closed (0 items)

Active, (3 items)



QA in Next Release, (1 items)

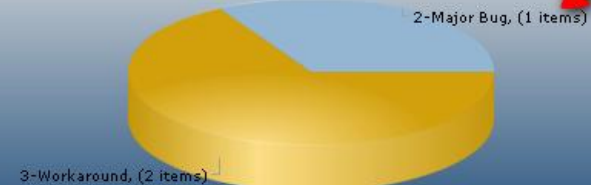
Defects

Filter: (No Filter)

Folder: (All Folders)

Analyze Defect Severity

Defects by Severity (Current Project) Excludes Closed and Ready for QA (1 items)



3-Workaround, (2 items)

Defects

Filter: (No Filter)

My Defects by Status (Active Projects) Excludes Closed (0 items)

Active, (1 items)

Analyze Defect Priority



Defects

Folder: (All Folders)

Defects by Priority (Current Project) Excludes Closed (0 items)

1-Fix ASAP, (3 items)



2-Fix Soon, (1 items)



Today We Discussed How To:

- Decide what to Automate
- Organize Test Cases
- Create Manual Test Cases
- Manage Traceability
- Auto-Generate Defects
- View Test Progress
- Create Metrics for Production Readiness



Next Steps

- We will send out the recorded session later this week.
- Please fill out the survey (Free Flip Camcorder Drawing)
<http://www.surveymonkey.com/s/SPTC1>
- Sign up for a free trial of Software Planner at
<http://www.SoftwarePlanner.com>
- Sign up for a free trial of TestComplete at
<http://www.TestComplete.com>
- Questions?



Contact Information

Thanks again for your time today!

Contact Information
(Request Personalized Demos or ask questions)

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