



Building Hand-Held Scanner Solutions on WebApp Server

Presented By: Michael Macliver
Managing Director
Triumph Business Systems



- Pet product wholesaler
- More accurate order processing/picking
- More efficient order processing/picking



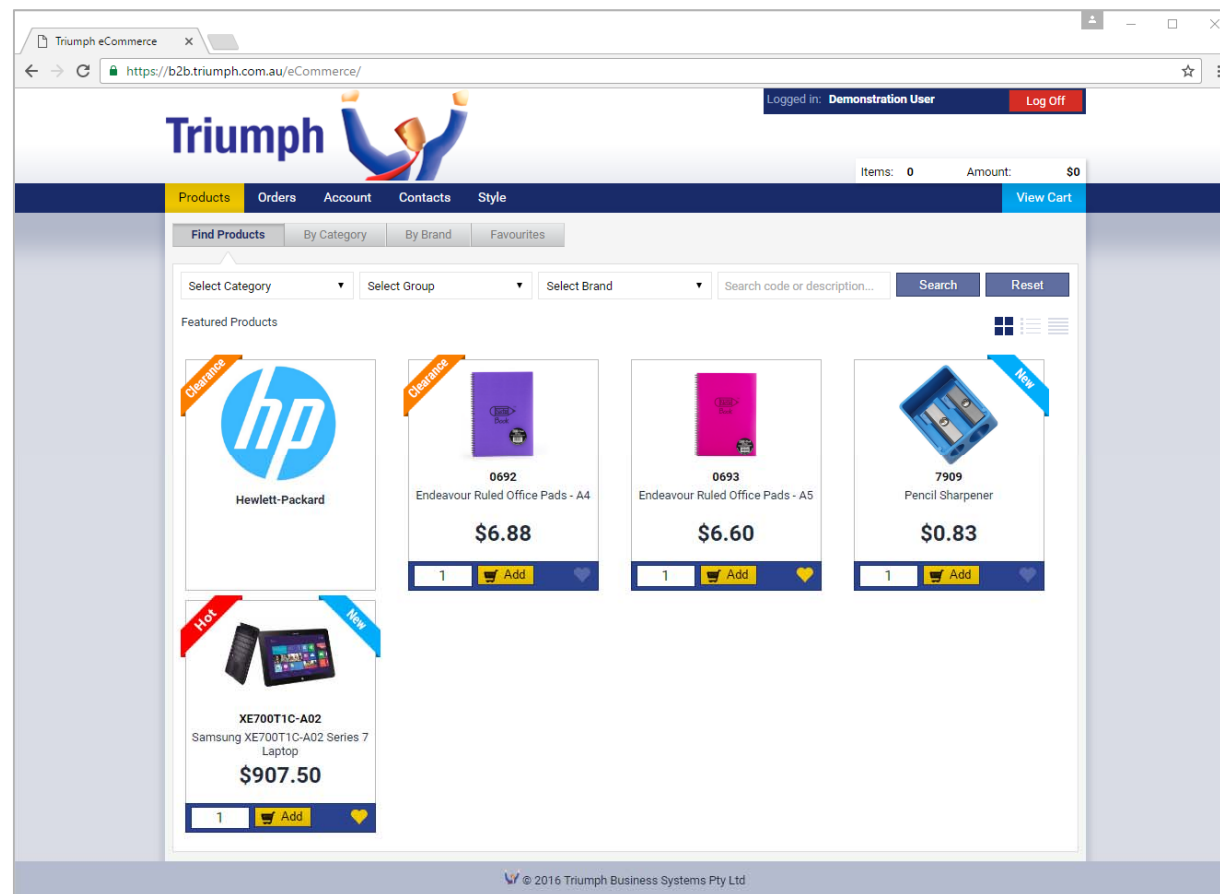
- Paperless Picking Warehouse
 - Wireless Mobile Scanner
 - Android
 - HTML5 Browser
 - Touch Screen (min 480 x 800)
 - Numeric Hardware Keyboard
 - Rugged
 - DataFlex Web Application



- Leverage existing classes and BPO's
- Works on the live data, so no batch import
- Support multiple devices moving forward – just need a browser and connectivity
- WebApp Experience



- B2B e-Commerce, VDF 17.1 and DF 18.0





- Web Requisitions, DF 18.2 – using mobile/drill down style

Web Requisitions

https://b2b.triumph.com.au/WebRequisitions/

MULTI LOCATION DEMO COMPANY - Web Requisitions

Header

Dashboard Header

Requisition No. PR10005 Working On Amount \$0.00

HEADER INTERNAL CONTACT SUPPLIER CONTACT DELIVERY DETAILS

Job J1002 HOME REMOVAL - SMITH

Cost Centre 2600 TRUCK - CA9 8IL

Creditor MARKET Marketwest

Date 09-Sep-2016

Delivery Date 09-Sep-2016

Prch Officer G1

Rate

Price List 2: Cost

Incoterm DDU

Named Place Margaret River

Description Stuff

Notes For moving from unit

Save Lines Print Submit



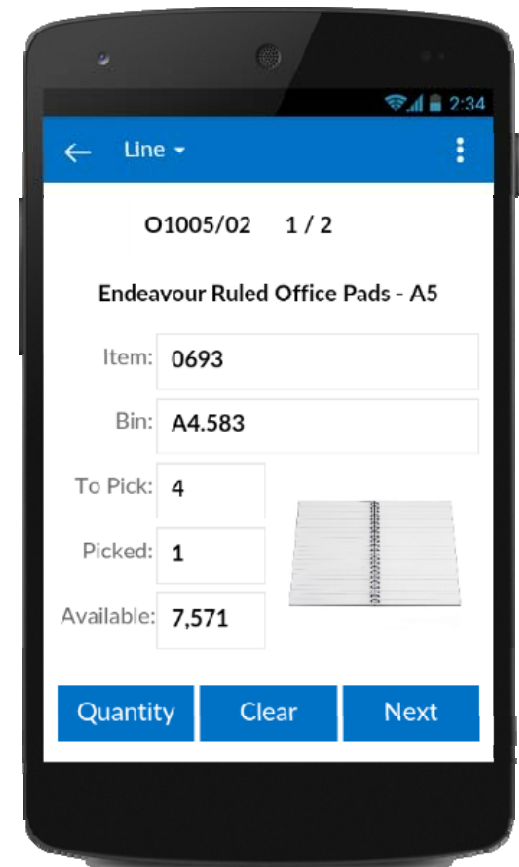
Intermec CN51

- Pros
 - Strong and robust
 - Good quality scanner
 - Can handle key input at view level
*so no onscreen keyboard required
on scan page*
- Cons
 - US\$2250 - US\$3000 per unit





Replace a manual order picking system with a real time scanning web application. The new web application improves speed and accuracy by reducing double handling, and displaying the required items on screen.





Chainway 4050 Scanner

- Pros
 - Cheaper
 - Fully Featured
- Cons
 - Less robust
 - ~US\$1100 per unit
 - Key handler doesn't work as expected, you need a focusable form to capture the input ***which means the onscreen keyboard is visible***



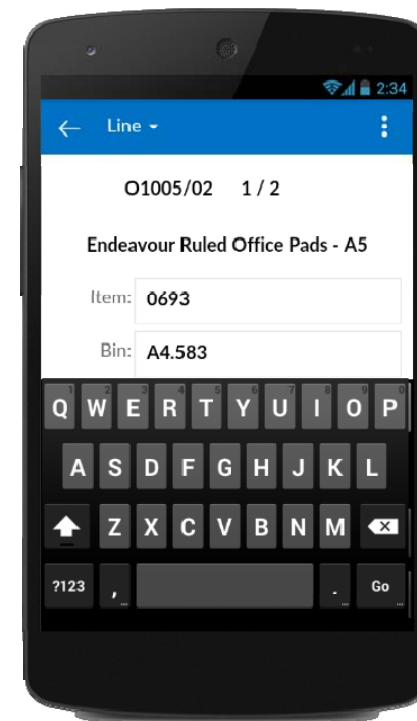
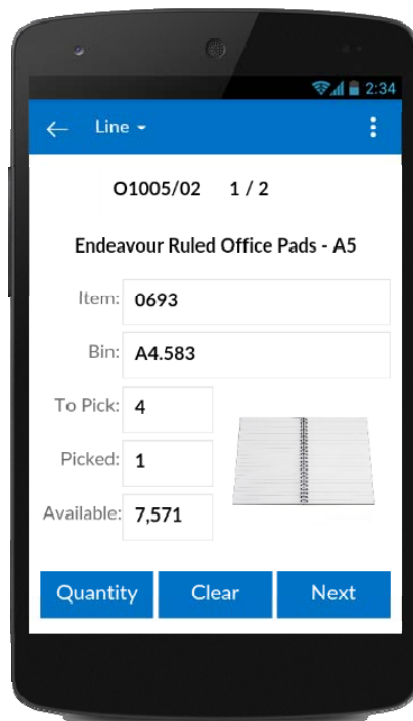


- Onscreen Keyboard Problem

Intermec CN51

vs

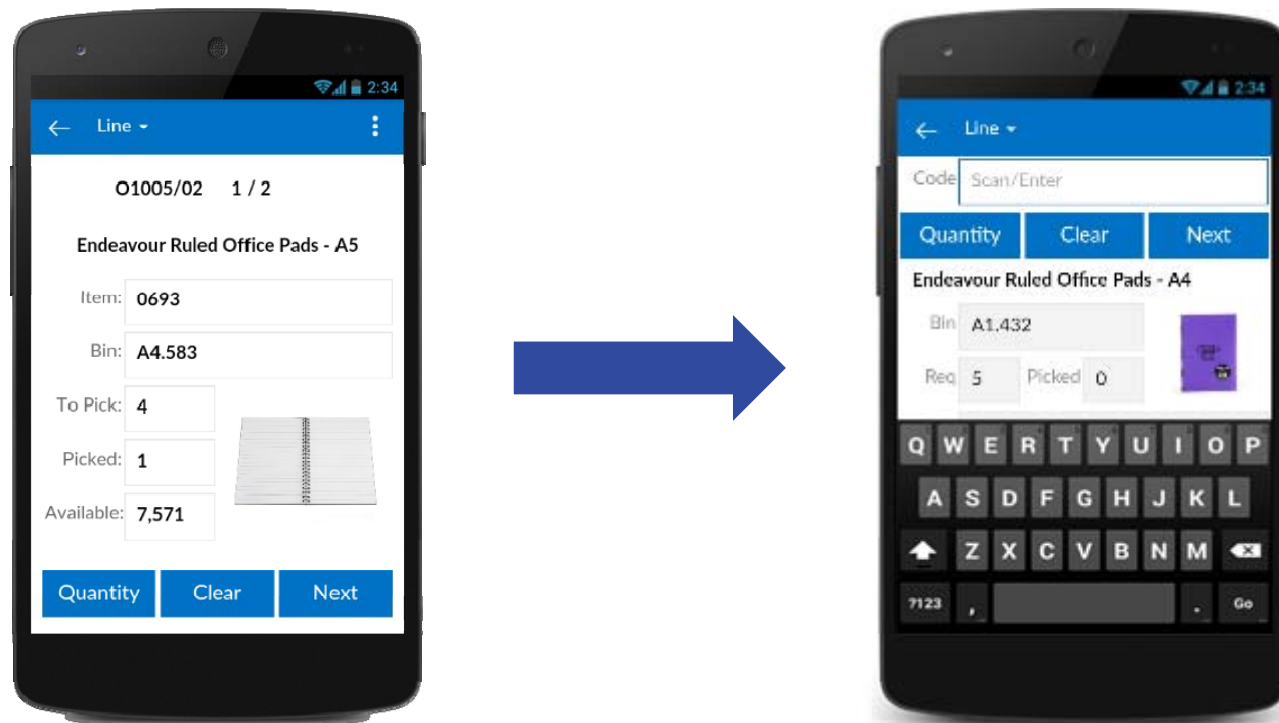
Chainway 4050





- Take 2

Redesign to take into account the onscreen keyboard



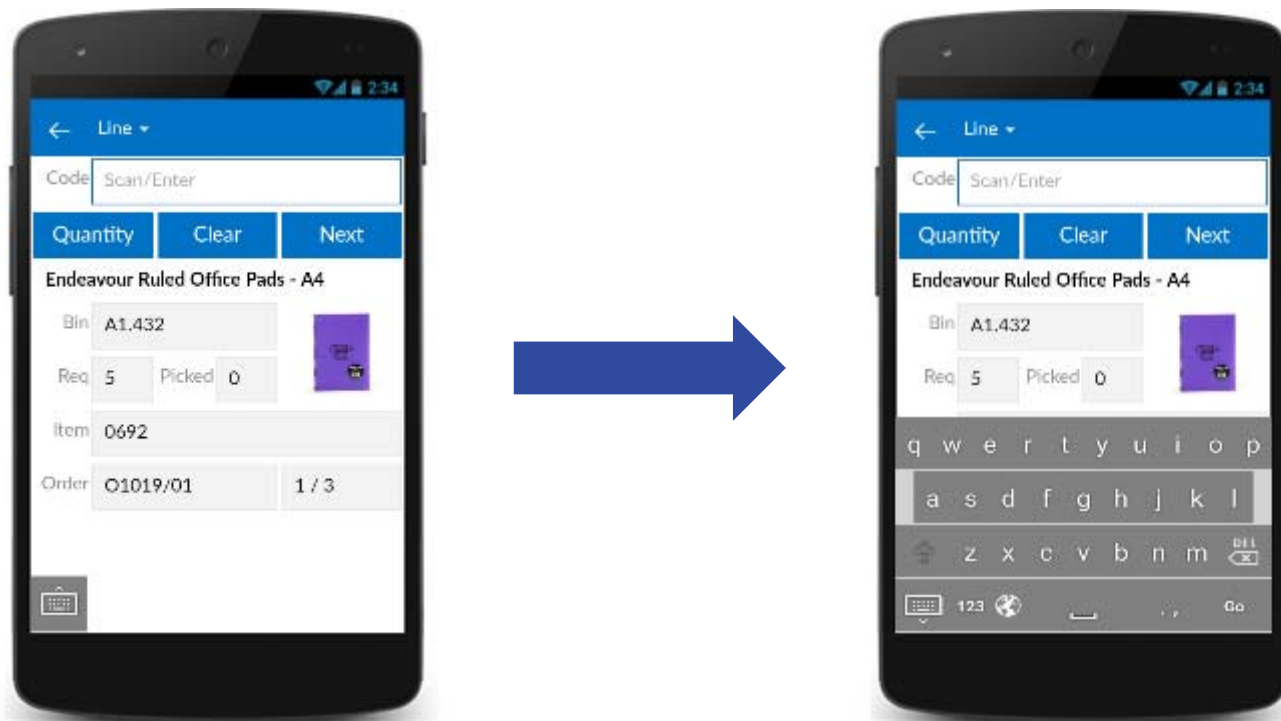


- **Disadvantages**
 - Force the focus back to the entry form
 - Pop-up keyboard hides screen
- **Advantages**
 - Manually enter a stock code/barcode



- New Android Pop-up Keyboard

Minimised onscreen keyboard gives best of both worlds





- <https://b2b.triumph.com.au>

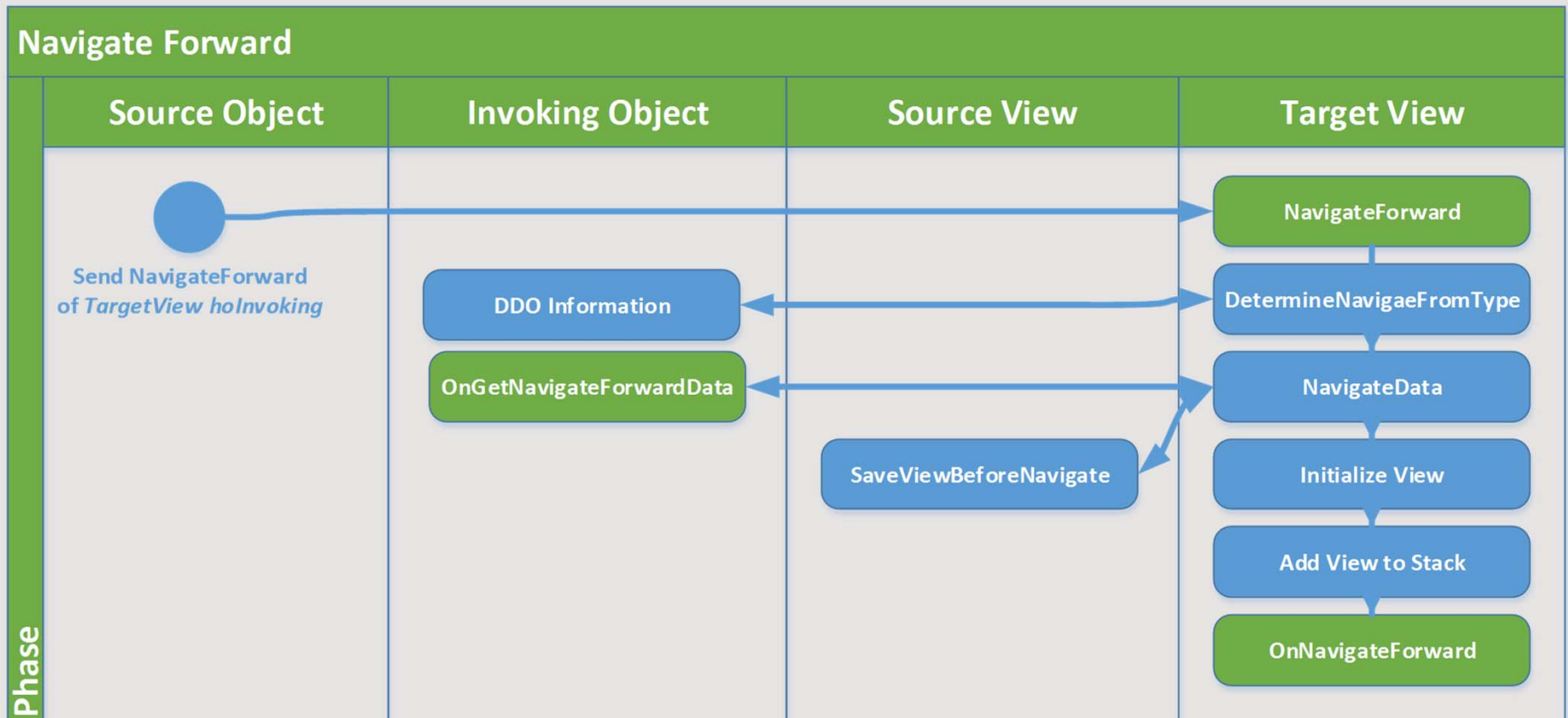


- Stocktake Scanning
- Stock Enquiry
- Stock Update
- Manufacturing Floor Stock Control
- Mobile POS & Signature Capture

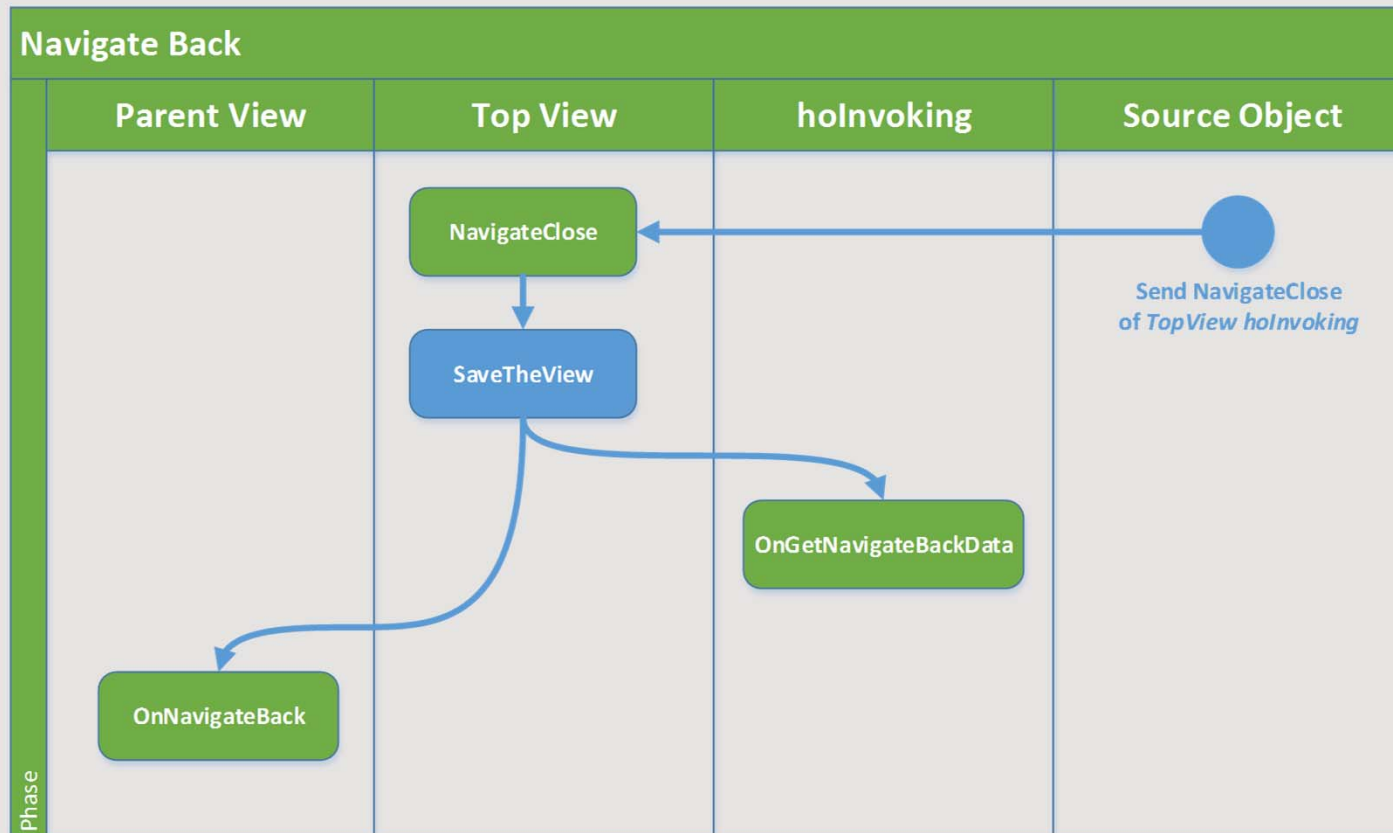


Have a good understanding of the drill down model's navigation pathways and the methods and events that are used...

Navigate Forward



Navigate Close





Vibrate

HTML5 is now providing us to play with the vibration on devices. Note the HTML5 Vibrate API supports only the recent versions of Firefox & Chrome.

Audio

Is done by the audio HTML tag, also available in HTML5. The sound is stored on the server and passed to the client as a base64 encoded string, we do it this way so the it's cached and thus plays faster. We play the sound via a JavaScript call. Note you may need to change a flag(s) to allow sounds to play on the mobile, browsers generally disable it by default to save bandwidth.



- Honeywell CN51 Scanner
<http://www.honeywellaidc.com/products/computer-devices/handheld/cn51>
- Chainway 4050 Scanner
<http://www.chainway.net/Products/Info/20>
- Android Pop-up Keyboard
- Sound & Vibrate JavaScript Classes
<https://www.dropbox.com/s/w5lej21zklt pajw/taMobile.zip?dl=0>

