



Implementation of RFID enabled circulation self-help services at Unisa Libraries

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Project

- Project management outsourced
 - Tagging of items
 - Implement RFID equipment
 - Training- effective and structured
- Project commenced 2010
- Tagtron project leaders (Bibliotheca equipment)
- 2013 new additional project with CSX as project leaders (3M equipment)
- Self checkout, self return, staff workstation, conversion station, sorter

Considerations

- Patron cards
 - Student and staff access cards needed with university ID
 - Smart card (chip-embedded info) vs card with barcode
 - Use PIN authentication
 - Card stations needed to issue cards

Considerations

- Configuration (III-Millennium)
 - Millennium circulation logins created by III
 - Choose optional SIP2 features e.g. allow for additional item statuses for check out- on search, missing; prevent magnetic items check out e.g. cassettes to be checked out; enable check in of certain

Considerations

- Software
 - Hybrid system- check out not more than 1 item per self checkout session vs non-hybrid
 - Millennium item status API (integrate Bibliotheca RFID tag reader with Millennium) vs 3M software & no API
 - SIP2 licenses (facilitate communication between RFID self-help machines and Millennium)

UNISA RFID

UNISA



Unisa RFID

Considerations

- Configuration (Tagtron-Bibliotheca)
 - Software on self-help units customisable eg. institution logo, user instruction screens, receipts
 - Sorter software- decide on sorting rules
- Infrastructure
 - Book return units built in- require changes to building structure
 - Additional data and power points

Installation

- Bibliotheca & 3M self-check out, self return, staff workstation, conversion station at:
 - Muckleneuk (plus sorter)
 - Sunnyside
 - Johannesburg
 - Florida
 - Polokwane
 - Cape Town
 - Durban
 - Rustenburg
 - East London
 - Pietermaritzburg
 - Nelspruit

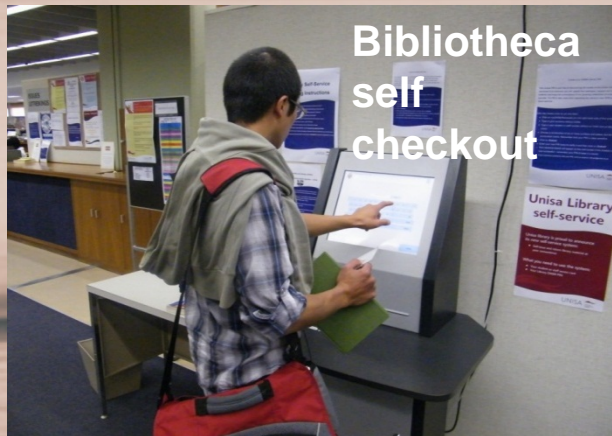
Tagging project

- 1.7 mil. items tagged using conversion stations (outsourced) vs self tagging
- Only barcode no. on tag vs more info eg. title
- 18 month period
- Tags need to be placed according to specifications
- New items tagged by...

Inventory control

- Use Millennium Circa- ability to update item online during inventory control
- Tag reader- difficult obtaining tag reader that reads tags successfully
- Metal shelves influence tag reader effectiveness
- Different collections interfiled cause problem with RFID inventory control

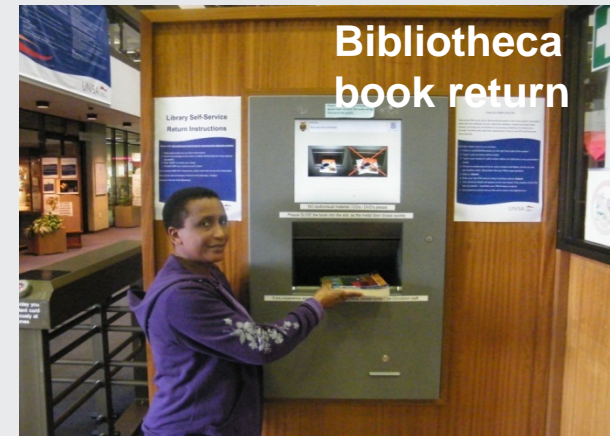
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Bibliotheca
self
checkout



3M self
checkou



Bibliotheca
book return



3M book
return



Bibliothec
a sorter



Bibliotheca
staff station



3M staff &
conversion
station

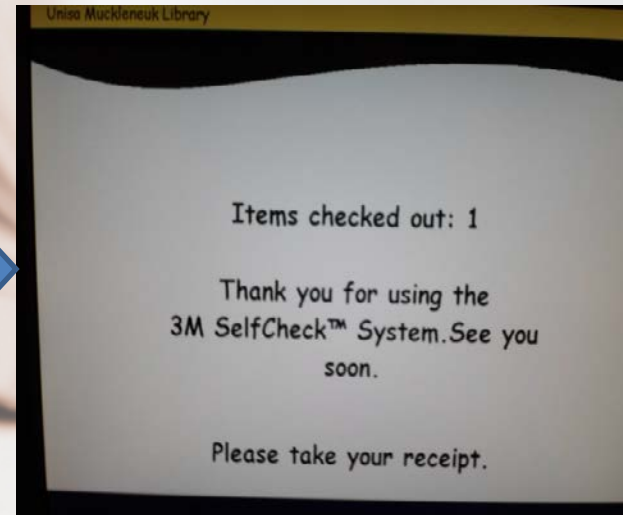
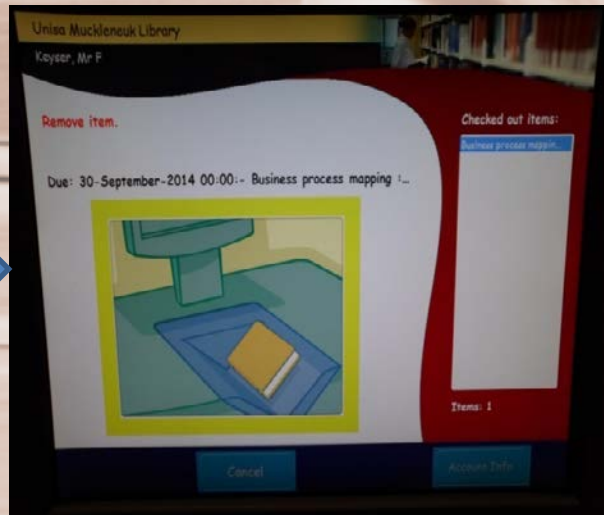
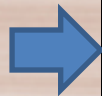
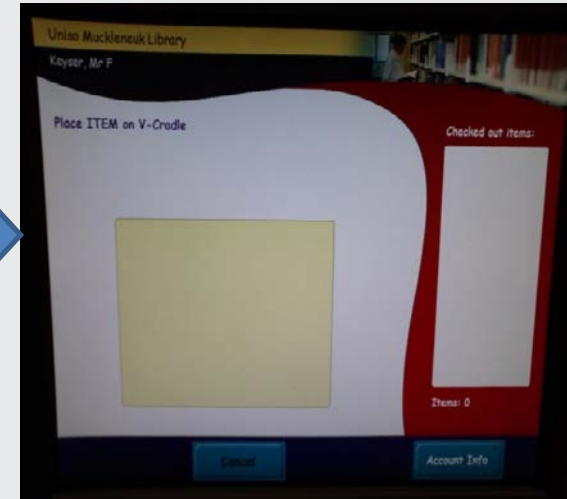
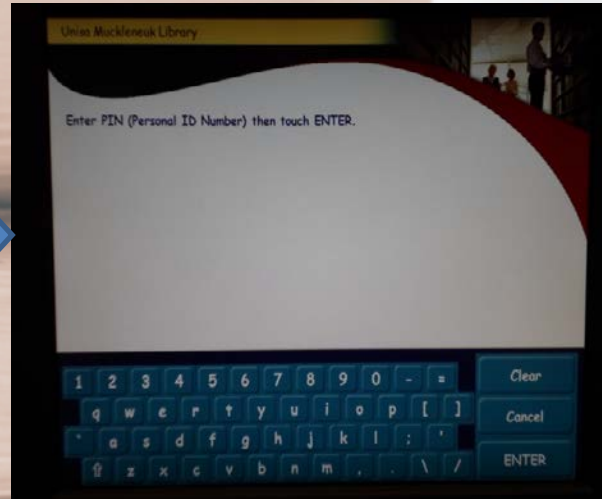
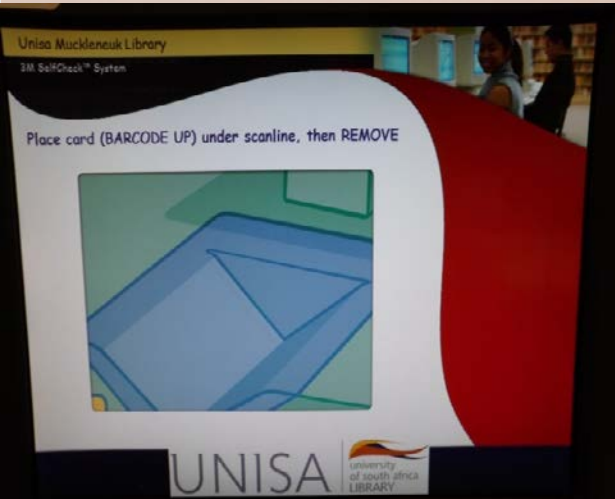


Bibliotheca
conversion
station

Unisa RFID equipment

Equipment
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Unisa 3M self checkout



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