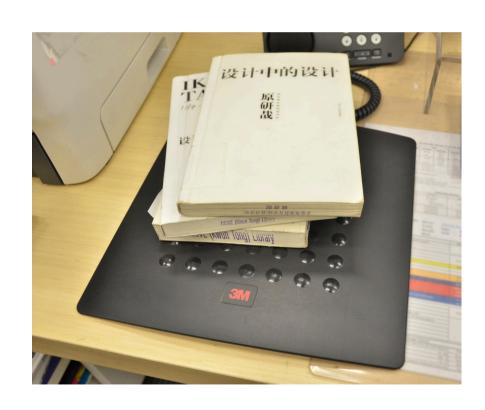
Millennium and RFID: Item Status API

Wilson Chu, VTC Library



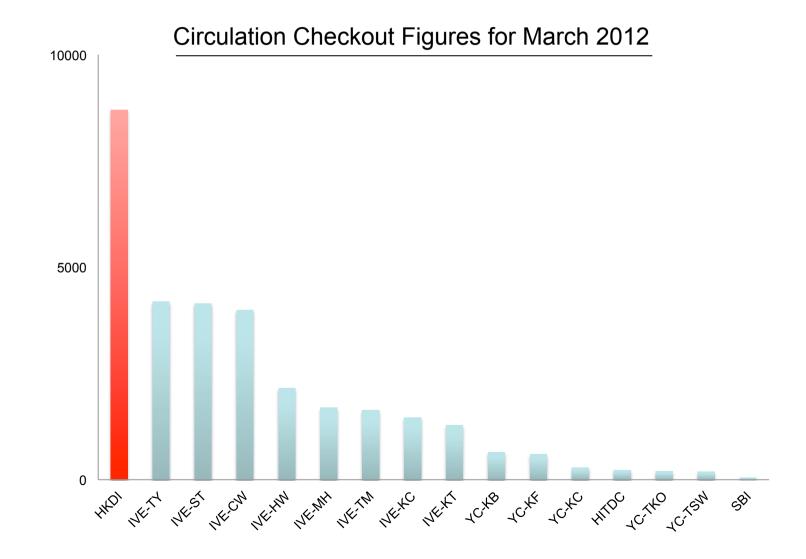


The Background Story

- HKDI & IVE-LWL Learning Resources
 Center (Library Service) was relocated from
 former IVE-LWL Library at Kowloon Tong
 (behind HKBU) in Summer 2010
- HKDI Library service started on September 6th, 2010.
- After months of operation, we found HKDI Library became the busiest Library among all VTC Libraries with a remarkable margin.

The Background Story





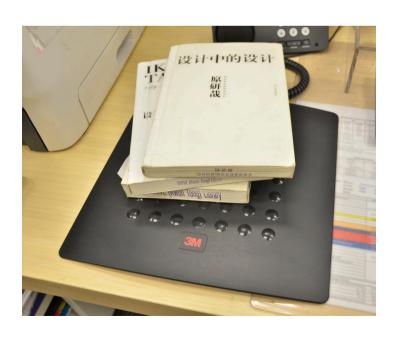
The Background Story

RFID Project Timeline

- RFID Project initiated in May 2011
- The budget was confirmed and we started tendering in October 2011
- The tender completed in late January 2012
- Project completed on March 31, 2012
- Officially switched over to RFID on April 2, 2012

Benefits of RFID

- Able to process multiple items at a time
- Able to check and verify multiple items set
- Combined barcode scanner and sensitizer/ desensitizer into one device



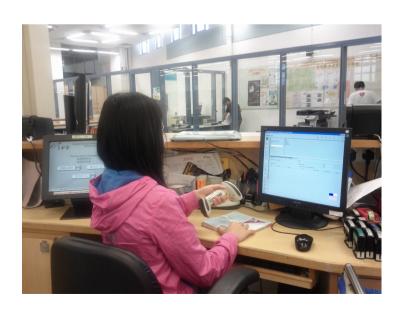


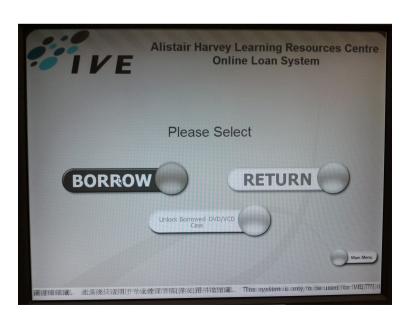
RFID vs Millennium

- Millennium wasn't designed to process multiple items simultaneously.
- Required frequent communication between the Millennium and RFID pad



- Mainly based on SIP2 Technology.
- Works but with disadvantages:
 - SIP2 cannot handle advanced circulation functions
 - Costly. Each SIP2 workstation is expensive plus additional SIP2 license charged by III.

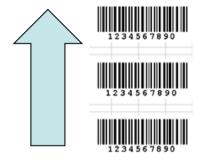








Checkout Checkin

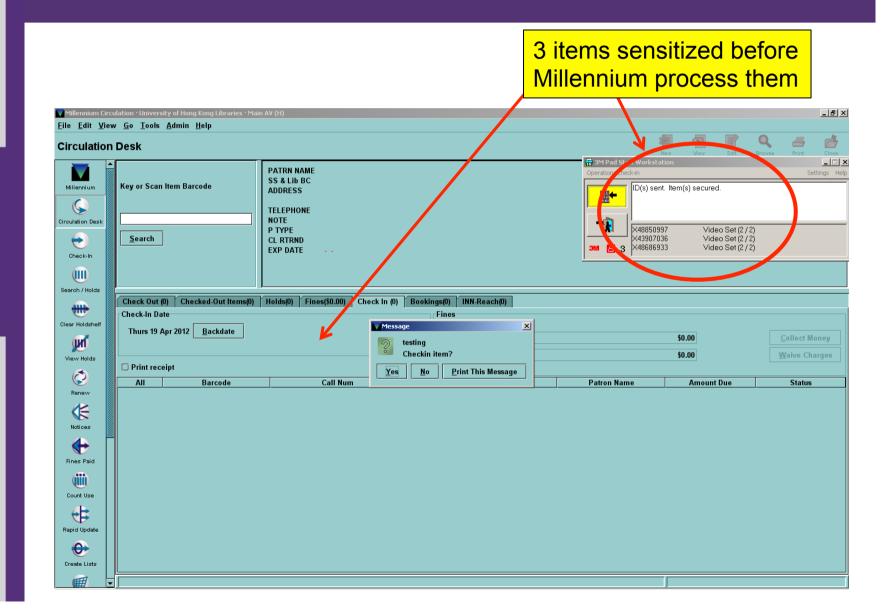






Sensitize Desensitize

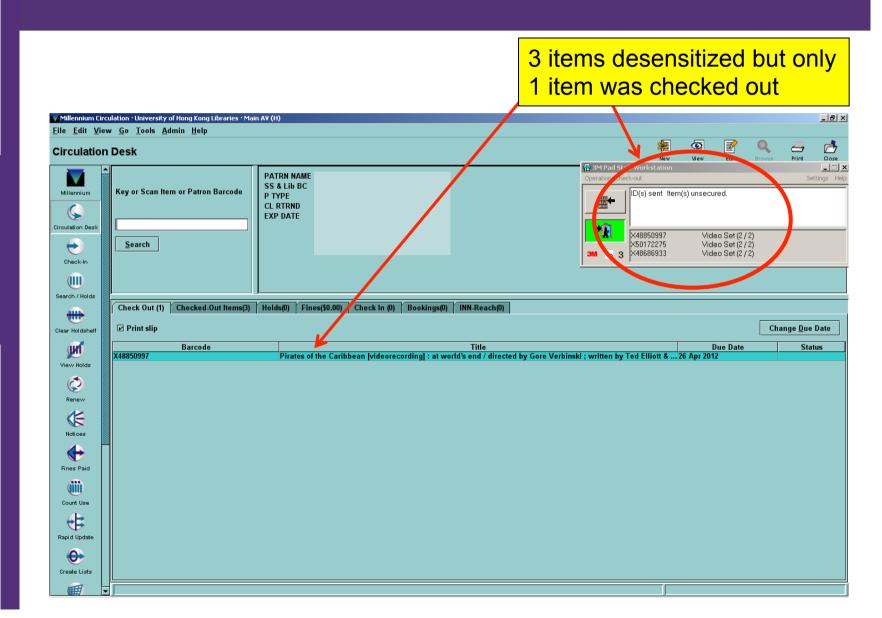
- Using intermediate program to pass barcode(s) to Millennium
- Working but with disadvantages:
 - Since Millennium will not talk back to the RFID Pad, operators will easily found mismatch on sensitization/desensitization processes and actual circulation transaction
 - Circulation process interrupted when problems encountered.



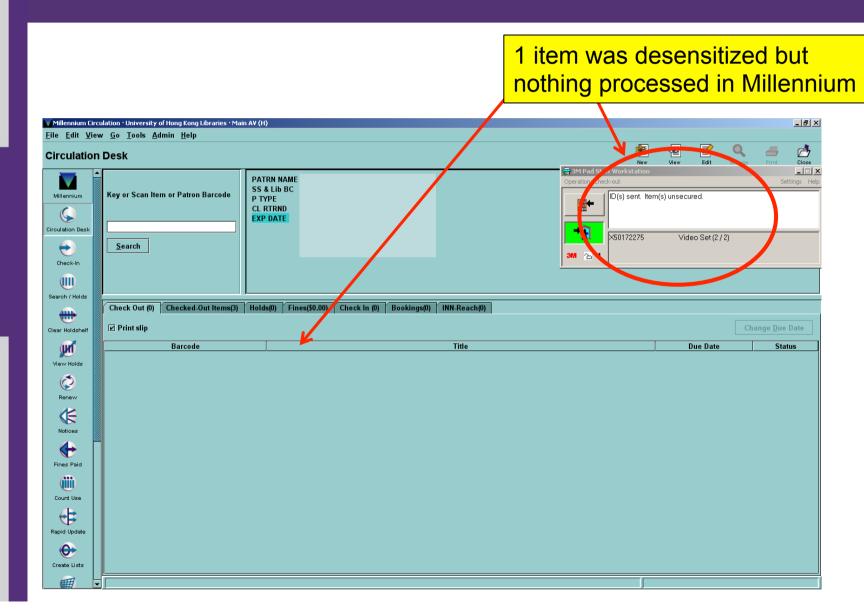


3 items sensitized but only 1 item was checked in _ B × File Edit View Go Tools Admin Help **Circulation Desk** _ | _ | × PATRN NAME SS & Lib BC Kev or Scan Item Barcode Millennium P TYPE CL RTRND EXP DATE Circulation Desk Video Set (2 / 2) <u>S</u>earch ×43907036 Video Set (2 / 2) ×48686933 Video Set (2 / 2) Check-In Search / Holds Check Out (0) | Checked-Out Items(1) | Holds(0) | Fines(\$0.00) | Theck In (1) | Bookings(0) | INN-Reach(0) Check-In Date Clear Holdshelf Thurs 19 Apr 2012 Backdate \$0.00 Collect Money (MI Amount selected: Waive Charges View Holds ☐ Print receipt Call Num Barcode Status X48850997 AV 791.43 P667 V A DVD mavxm Pirates of the Caribbean (videorecording... Audio Visual & Reserve Coll... Renew **(** Notices Fines Paid Count Use Rapid Update Create Lists

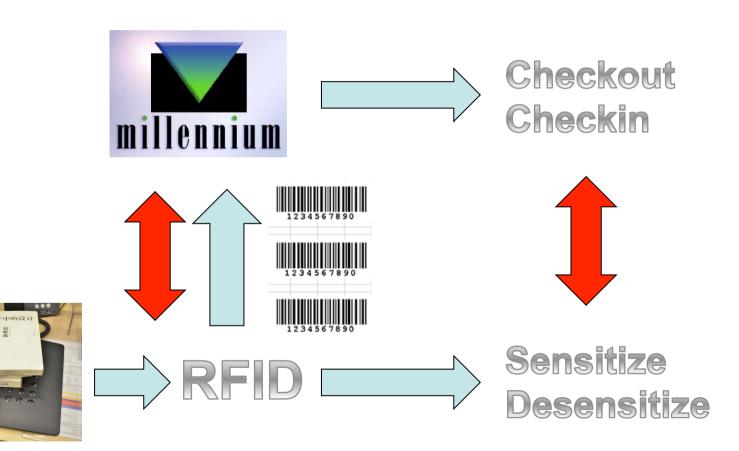






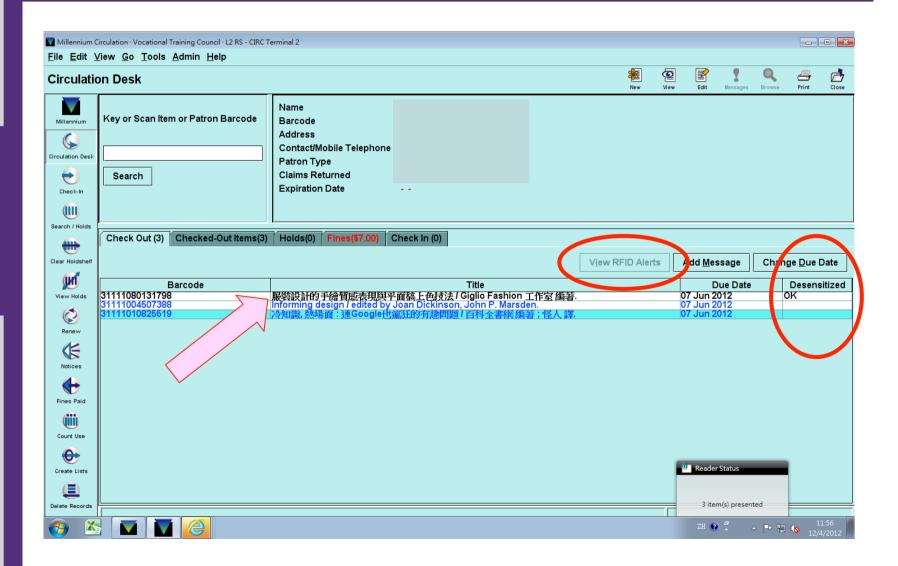






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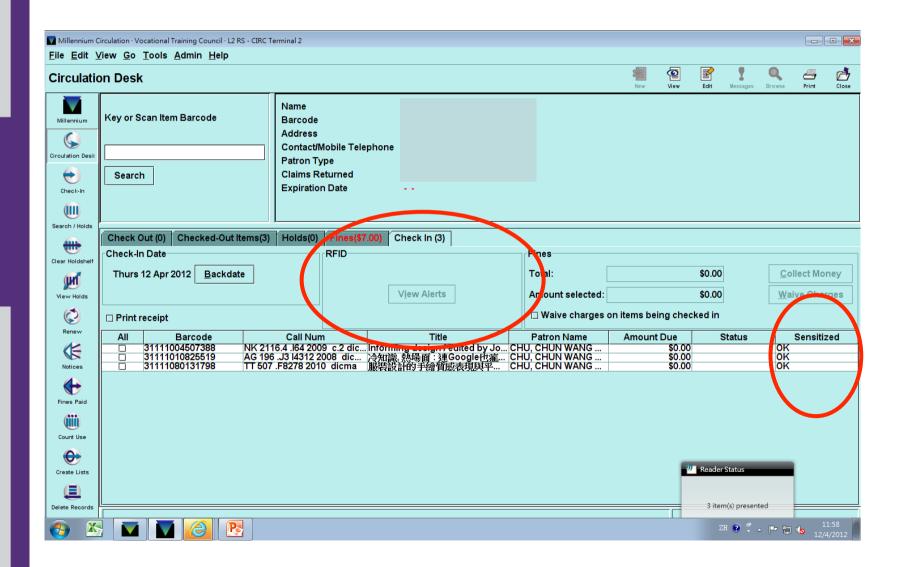
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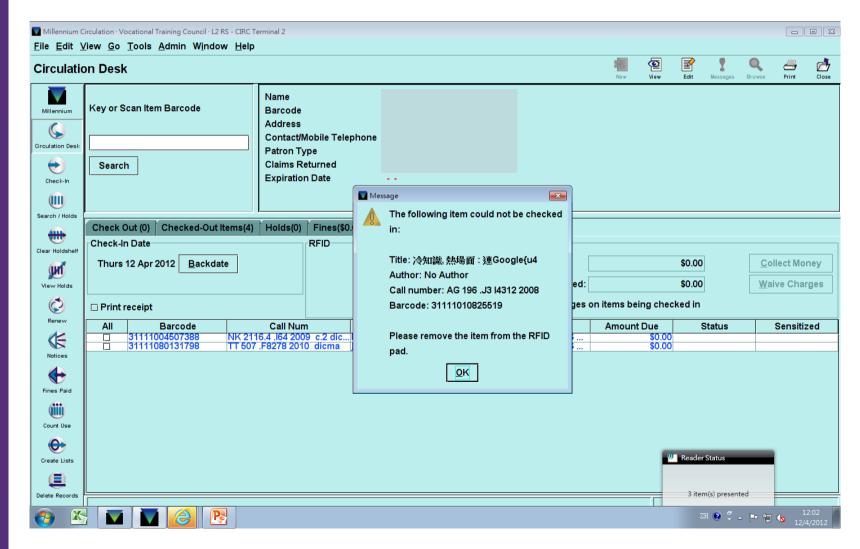
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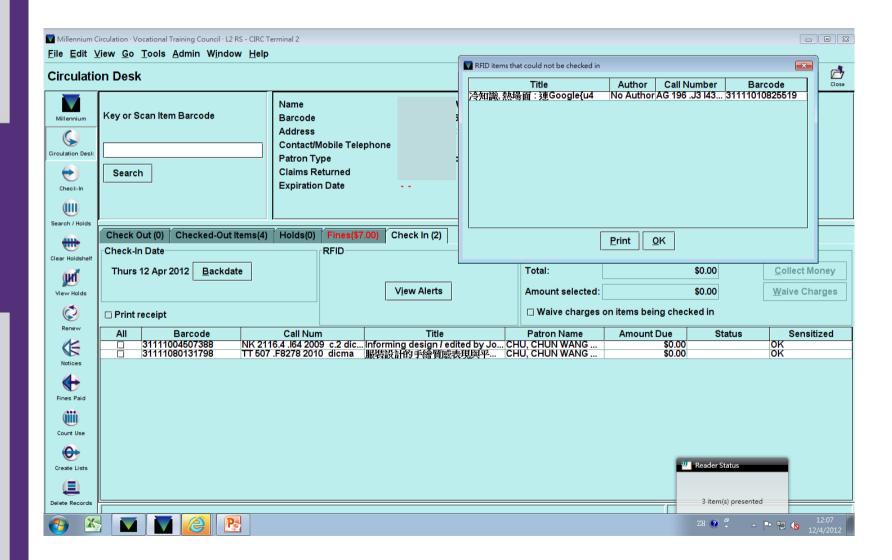
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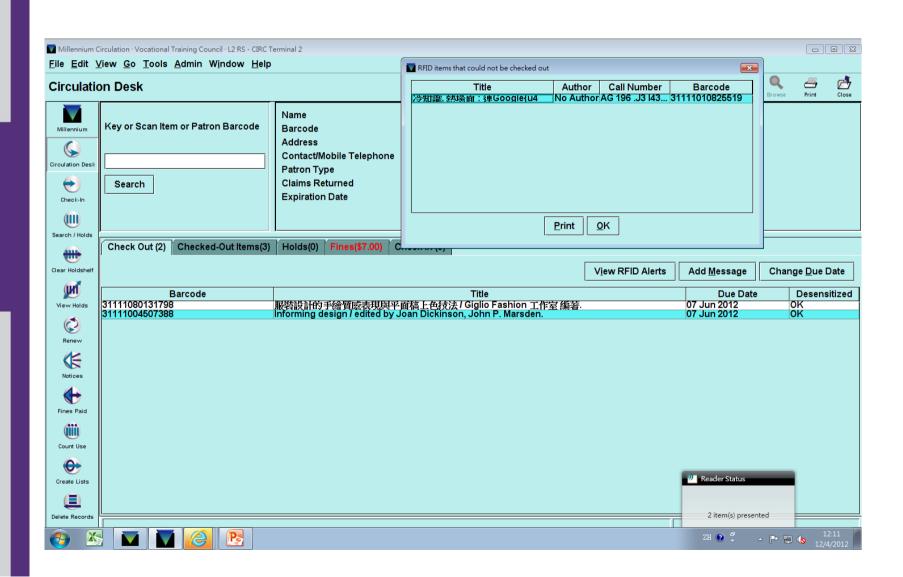
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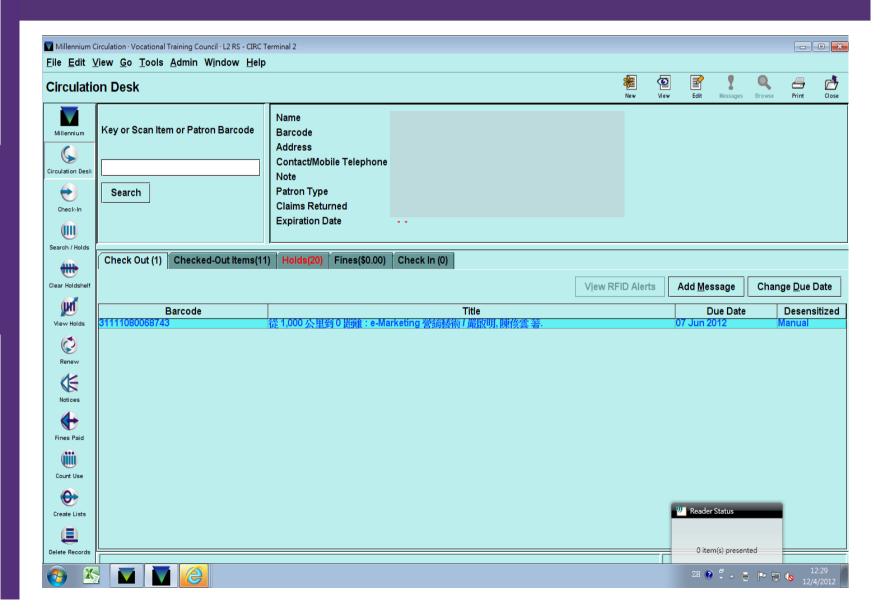


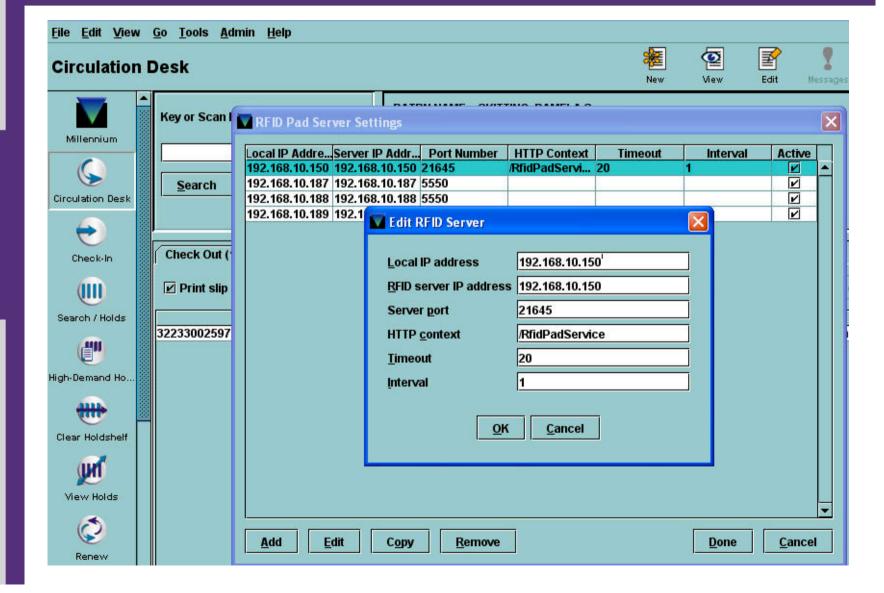














- Works better with Millennium
 - Millennium could instruct RFID Pad to hold off rest of the barcodes, when problem appeared and waiting to be cleared
 - Millennium could feedback to RFID Pad to sensitize/ desensitize items that had successfully checked in/out.
 - RFID Pad will feedback to Millennium whether items had been successfully sensitized/desensitized.
- Don't need to pay for expensive SIP2 stations and licenses
- Don't need need to switch workstations for advanced Circulation functions



- We didn't find major problem yet.
- Items had been sensitized/desensitized accurately.
- Disadvantages:
 - Item Status API is not free.
 - Only works on Circulation transactions.
 - The RFID Pad needs to be compatible with Item Status API



Thank You