

September 23rd, 2025

Datastore Advanced Label App

OpenBIS User Group Meeting 2025

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Division 6.5 Synthesis and Scattering of Nanostructures

1. Problem aka. Motivation

2. Other Solutions

3. This Solution

4. Outlook

1. Motivation: Labels

- **Samples are the first objects to be created**

→ To do something with them



- **Labels: the interface of digital and physical realm**
 - This transition should be easy in everyday workflows
 - Essential for accepting and adopting DS



1. Motivation: Current State


2 selected row(s): **DELETE** **MOVE** **GENERATE BARCODES** **UPDATE**

<input checked="" type="checkbox"/>	SAM6782	N008 ID 989 BAM	20250730150258459-12756	/6.5_PROJECTS/ BAM_N008_REFERE SAM6782
<input checked="" type="checkbox"/>	SAM6783	N008 ID 228 BAM	20250730150301121-12757	/6.5_PROJECTS/ BAM_N008_REFERE SAM6783

Barcode/QR Code Generator

Type: Count: Layout: Width: Height:

QR ... Split ... 30 mm 20 mm

Update Custom Barcodes/QR Codes 



Print – PDF



Other Solutions

1) In Çağtay Fabrys group

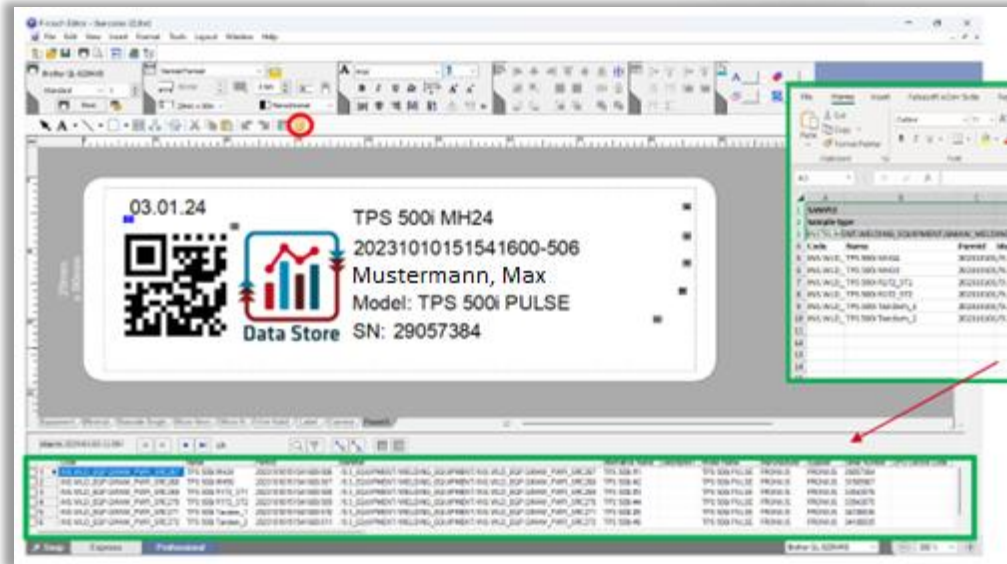
1. Export selected objects to XLSX
2. Import into P-Touch Editor for Brother Label Printer
3. Configure predefined Templates & Print



! Required Extras:
Software & Hardware

2) By Fraunhofer IWM

- Custom OpenBIS Extension
- Seen on DataStoreDays (Apr'25)
- No more details so far 🙄



This Solution / Proposal:

DataStore Advanced Label App

- **A web interface** (JS) for batch-generating QR-labels
 - accessible on every PC with DS access (no iNet req.)
- Every user can **define custom templates**
 - additional info & formats
 - for tiny, normal and big bottles - see Çağtays solution
- **Standard formats** (A4) for regular network printers
- **Predefined grids** for widely used label sheets, e.g. Herma
- **Quick selection** of multiple samples
- Copy IDs from DS listing or embedded search



github.com/
BAMresearch/dalapp

 **Demo**

Outlook & Thanks

- Real-life testing & finetuning layouts
- DataStore integration (?) of Label App
 - For simpler object picking ...



**github.com/
BAMresearch/dalapp**