

GENERATION FIFTH

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Recommended Server & Workstation Configuration for LAS Operations

Functions of the server and client workstations

The server runs and maintains the LAS databases, executes data exchanges with the server and stores reports. Client-server system configurations and data backup policies are determined by the local system administrator's preferences and policies.

The client workstation is the primary point of LAS data entry, directly by scanning or keying, or via FTP. Users will also use workstations to perform various support operations for facility management, e.g., maintaining and printing tray labels and maintaining remote data collection programs.

Minimum Server Configuration

660 MHz CPU, preferably SUN
1 GB RAM
40 GB hard disk
Sun Solaris 2.9 or Linux (Red Hat)
Progress Developer v10, single-user license
Progress Workgroup v10, multi-user license
Progress Web Agent, multi-user license
GFA Tool Pro
Networked printer

Minimum Workstation Configuration

300 MHz CPU, Pentium
96 MB RAM
2 GB hard disk
24x CD-ROM
Multiple USB ports
Microsoft Windows O/S
Secure shell client
FTP client

GFA does not stipulate the use of an external storage device with workstations, leaving it to the determination of the local system administrator's policy.

Peripheral Hardware and Support Software

Peripheral hardware includes direct input devices, label-generating software and printers, remote data collection (RDC) terminals and RDC application developer software.

Direct Input Devices:

Symbol LS4278 Series wireless scanner
Symbol LS4278 Series charge base and wedge cable
Symbol LS4278 Series Intellistand

Label-Generating Equipment:

Zebra Z4M Printer: High-speed, thermal transfer label printer
Zebra Wax Ribbon: Ribbon for thermal transfer printer
Zebra Tranmatte Labels: Stock for tray labels and barcode duplication labels, where applicable
Zebra DesignerPro™: Label development software

Remote Data Collection Equipment:

Symbol MC9090 portable data terminal w/ battery
Symbol MC9090 single-slot comm./charge cradle and power supply
Symbol MC9090 RS-232 comm cable, USB

Symbol MC9090 four-slot charge cradle and power supply
Omega Technologies Merlin Developer license
Omega Technologies Merlin Runtime license

Minimum configuration for each function of LAS operations

(**NOTE:** Most of these operations will be performed on the same workstation. Dedicated machines are not required.)

PRIMARY LAS OPERATIONS

Pre-Accession - Item sorting and tray placement

Sizing template
Acid-free cardboard trays with handles, labeled
Batch-tracking documentation

Accession - Input and Verification:

Configured Workstation
Symbol LS4278 Series Scanner
Symbol LS4278 Series Cables
Symbol LS4278 Series Intellistand
Networked printer

Accession - Tray-to-Shelf Location Assignment

Configured Workstation
MC9090 portable data terminal
MC9090 Holster
MC9090 Cradle-single slot
MC9090 Communications cable
RDC upload runtime program
FTP protocol
Networked printer

Non-Tray Accessions

Configured Workstation
MC9090 portable data terminal
MC9090 Holster
MC9090 Cradle-single slot
MC9090 Communications cable
RDC upload runtime program
FTP protocol
Networked printer

Retrievals - Workorder Input and Maintenance

Configured Workstation
Symbol LS4278 Series Scanner
Symbol LS4278 Series Cables
Symbol LS4278 Series Intellistand
Networked printer

Retrievals - Item Retrieval, Verification and Shipping

Configured Workstation
MC9090 portable data terminal
MC9090 Holster
MC9090 Cradle-single slot
MC9090 Communications cable
RDC upload runtime program
FTP protocol
Networked printer

Non-Tray Retrievals

Configured Workstation
MC9090 portable data terminal
MC9090 Holster
MC9090 Cradle-single slot
MC9090 Communications cable
RDC upload runtime program
FTP protocol
Networked printer

Refiles - Workorder Input and Maintenance

Configured Workstation
Symbol LS4278 Series Scanner
Symbol LS4278 Series Cables
Symbol LS4278 Series Intellistand
Networked printer

Refiles - Item Refile and Verification

Configured Workstation
MC9090 portable data terminal
MC9090 Holster
MC9090 Cradle-single slot
MC9090 Communications cable
RDC upload runtime program
FTP protocol

Networked printer

Non-Tray Refiles

Configured Workstation
MC9090 portable data terminal
MC9090 Holster
MC9090 Cradle-single slot
MC9090 Communications cable
RDC upload runtime program
FTP protocol
Networked printer

Permanent Withdrawals - Workorder Input and Maintenance

Configured Workstation
Symbol LS4278 Series Scanner
Symbol LS4278 Series Cables
Symbol LS4278 Series Intellistand
Networked printer

Permanent Withdrawals - Item Retrieval, Verification and Shipping

Configured Workstation
MC9090 portable data terminal
MC9090 Holster
MC9090 Cradle-single slot
MC9090 Communications cable
RDC upload runtime program
FTP protocol
Networked printer

Permanent Withdrawals

Configured Workstation
Networked printer

SUPPORT LAS OPERATIONS

Tray Maintenance

Acid-free cardboard trays with handles
Configured Workstation
Zebra Z4M Printer
Zebra Wax Ribbon Ribbon
Zebra Tranmatte Labels, 4"x3"

Audits - Inventory and Tray

Configured Workstation
MC9090 portable data terminal
MC9090 Holster
MC9090 Cradle-single slot
MC9090 Communications cable
RDC upload runtime program
FTP protocol
Networked printer

Initial peripheral equipment recommendations are based on a four-workstation environment. Final configuration is dependent upon several factors, including staffing levels, projected rate of accession (PRA) as well as types of access. Another consideration is the proportion of regular accession versus non-tray accessions: if facility managers anticipate a large influx of direct-to-shelf accessions, more remote data collection equipment may be required to ensure operational continuity.

Please contact Generation Fifth Applications for further information on server and workstation configuration, as well as assistance in planning operational infrastructure.