

Product Bulletin

Migrating BASSPoiNT to ISS45 or ScanMaster

MB-ISS45-1183 Issue 2

May 26, 2006

With the upcoming cessation of BASSPoiNT support, current BASSPoiNT users should consider the opportunity to migrate their stores to ISS45 or ScanMaster.

This migration has both commercial and product feature/function ramifications. Regarding commercial questions:

- It is assumed that all BASSPoiNT systems requesting migration are at least 36 months old. Earlier offers for BASSPoiNT migration at higher discounts for BASSPoiNT systems that were 24, 12 or less than 12 months old have expired.
- The net price to the dealer to migrate either standard ISS45 or ScanMaster software is 30% off the list price of the controller/base software, POS and/or LAN license charges and workstation licenses. Dealers must order the ScanMaster base or ISS45 office, POS and/or LAN and any workstation licenses, and these items will be provided to the dealer at 30% net of list prices.
 - ◆ Dealers must provide the name, address, telephone number and contact name of the store being migrated. BASSPoiNT stores are logged in a support database, and will be removed upon migration.
 - ◆ This dealer net discount applies regardless of whether any hardware is included in the system or not.
 - ◆ Customers purchasing the migration under this program will receive at no additional charge (license fee waived) either the ISS45 Advanced Promotions Option or the ScanMaster Electronic Couponing Option at no additional charge.
 - ◆ Customers purchasing the migration under this program will receive at no additional charge (license fee waived) the ISS45 or ScanMaster Catalina option if desired.
 - ◆ Customers purchasing the migration under this program will receive at no additional charge (license fee waived) one electronic payments interface option for ScanMaster or ISS45. (Note that the price does not include the WinEPS or WinEPS/OpenEPS software itself).
 - ◆ This migration covers ScanMaster V1 or V2, or ISS45 V7 licenses. The ISS45 V8 option is not included. Pervasive and Microsoft SQL database licenses are expressly not included.
 - ◆ Any and all other options, including the ISS45 V8 option, are billable at standard pricing terms and conditions.
- Under this program, the Dealer is expected to retain 10% of the list price for the ISS45 or ScanMaster software licenses that are sold.
- The Dealer will retain all installation and other professional services.

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Regarding features and functions, ISS45 and BASSpoiNT have different architecture, platform and feature profiles. StoreNext's Senior industry consultant Mike Kawczynski collaborated with Retalix personnel in Dayton to develop the following System Comparison to help Dealers and users compare these two systems and be able to make an informed evaluation. Mike's exhaustive chart will be a key document when gauging an ISS45 migration decision.

To Your Success,



Anthony van Severter



System Comparison — ISS45 and BASSpoiNT

SYSTEM HISTORY AND MARKET

Item	ISS45	BASSpoiNT
First General Release Version	March 1995	January 1998
Total Installations Worldwide	~ 7,500	450
Total Installations North America	~ 5,000	450
Total Installations Independent Grocery	~ 3,500	450
Major Wholesaler Support	Fleming, SuperValu, UWG, Nash Finch, AWG	SuperValu, NWG, AWG
Average Major Feature releases per year	1-2	1-2
Average Minor Feature releases per year	1-2	3-4
Average Maintenance releases per year	6	~ 6

SOFTWARE PLATFORM REQUIREMENTS

Item	ISS45 8.4	BASSpoiNT
Office Controller #1 Operating System	Windows 2000 Server	Windows 2000 Server
Office Controller #2 Operating System	Windows 2000 Professional, Windows 2000 Client	Single controller architecture
Office Workstation Operating System	Windows 2000 Professional, Windows 2000 Client	Windows 2000 Professional
PoS Operating System	Windows 2000 Professional, NO windows 2000 client required	Windows 98 & Windows 2000 Professional
Office Controller #1 Database	SQL 2000 Server	Sybase
Office Controller #2 Database	SQL 2000 Client	N/A
Office Workstation Database	SQL 2000 Client	Sybase
PoS Database	None (internal QDX tables)	Sybase
Tools and Utilities	pcAnywhere recommended for remote usage	pcAnywhere
Other (LAN licenses, etc.)	None	None



HARDWARE PLATFORM REQUIREMENTS

In the tables below, “minimum” refers to the specification below which the application will not operate successfully, and “optimal” suggests the point at which adding more has diminishing or no returns. The requirements below do not account for any performance, Disk or RAM required for any other applications that the user may want to operate with the system.

ISS45

Product	Minimum MHz	Optimal MHz	Minimum RAM	Optimal RAM	Minimum Disk (above O/S)	Optimal Disk (above O/S)
V8 8.4 MFS1 (Windows 2000 Server)	Pentium III 600 MHz	Pentium 4 1.5 GHz	256	512	10GB	20GB
V8 8.4 MFS2 (Windows 2000 Pro)	Pentium II 266 MHz	Pentium III 1.5 GHz	128	256	4GB	10GB
V8 8.4 LFS (Windows 2000 Pro)	Pentium II 266 MHz	Pentium III 1.5 GHz	128	256	4GB	10GB
V8 8.4 WinPoS (TeamPoS 2000 Windows 2000 Pro)	Pentium 266 MHz	Pentium III 850 MHz	128	128/256 ¹	2GB	4GB
V8 8.4 WinPoS (TeamPoS 5000 Windows NT)	Pentium 266 MHz	Pentium III 850 MHz	64	64	2GB	4GB

BASSpoiNT

Product	Minimum MHz	Optimal MHz	Minimum RAM	Optimal RAM	Minimum Disk (above O/S)	Optimal Disk (above O/S)
Controller #1	PIII Dual Processors	P4 (all)	256	512	5GB	20GB
Controller #2	Not Applicable					
PoS	PIII 600MHZ	Latest available	128	256	5GB	20GB

¹ 256 MB recommended for more demanding applications, such as dual displays or use of complex promotions.



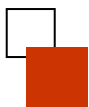
SUPPORTED HARDWARE

Terminals:

Product	Fujitsu TeamPoS	IBM	NCR	WinCor	P&P	OPOS Support
ISS45 8.4	All	Most configurations of 4694. some support/driver issues. No 4680.	Some 7450, but good support for most "true PC" NCR terminals. Dynakey supported under Windows 2000.	"PC" configurations supported. May need drivers for Windows configurations	Many P&P supported, but usually need to check on individual keyboards, interfaces, etc.	Yes
BASSpoiNT	No	750	7452		Yes	Yes

Printers:

Product	Fujitsu Dot Matrix	Axiohm	Epson	NCR	IBM	Other
ISS45 8.4	Yes	All RS-232	All RS-232	Some RS-232 supported	Some RS-232 supported	
BASSpoiNT	No	Yes	Yes	NCR 7156, 7158, 1167, IBM 4610TM	Some	IBM USB



Displays:

Product	Analog SVGA	Digital	Dual Displays	Dual Touch	VFD	Other
ISS45 8.4	Yes, including touch screen	Yes, Including touch screen	Yes, separate data for shopper and clerk	Yes	Yes, many combinations	
BASSpoiNT	Yes	Yes	Yes	No		

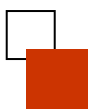
Keyboards:

Product	101	PoS	USB	PS/2	RS-232	Multiple
ISS45 8.4	Yes	Yes	No	Yes	Yes	Yes
BASSpoiNT	No	Yes	BP	Yes	No	Yes



SYSTEM ARCHITECTURE

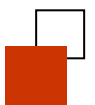
Item	ISS45 8.4	BASSpoiNT
General	<p>Uses dual controllers for system replication and “Fat Client” WinTel terminal architecture for third level of replication and ability to check out shoppers under all circumstances.</p> <p>Can run well-behaved apps and payments on system controllers.</p>	<p>Single controller.</p> <p>Replication is at lanes, since all lanes have the full database. Lanes Scan from controller but scan from local file in case of controller failure.</p> <p>Can run well-behaved apps and payments on system controllers.</p>
Performance	<p>System throughput capacity approximately 1,000 items per second.</p> <p>Scan response time about .5 seconds scan-to-print with fast terminals.</p>	<p>Depends on speed of controller.</p> <p>.3 seconds scan to print</p>
Controller Replication, Resiliency, Recovery	<p>Dual controllers, biased system. Terminals will work with Controller #2 if controller #1 fails, but no office capabilities. Controller #2 takes over automatically without user intervention. Controller #1 takes over when brought back on line. Virtually foolproof.</p>	<p>One server only.</p> <p>If server needs to be rebuilt the database is built from the lanes. Database backup is performed nightly with copies going to multiple lanes and to the local server. A copy of the database is always available.</p>
Terminal Replication, Resiliency, Recovery	<p>Terminals are completely independent and can run independently of the controllers for all functions except receiving system updates. Electronic payments may or may not be affected depending upon the EPS system in use, and whether it uses a separate LAN.</p> <p>If power lost, system returns to transaction where it left off with no data loss. Recovery automatic. All data regularly queried to the controllers for updates. Extremely solid and virtually foolproof.</p>	<p>Lanes can run independently. If the controller fails, there are no EPS facilities.</p> <p>If power lost, system returns to transaction where it left off with no data loss.</p>



System Database and data architecture	SQL 2000. Used in Controller #1 with controller #2 as a SQL client. Data is passed between system services (terminals, controllers) via QDX transaction processing system. Terminals are NOT SQL or Windows clients. Terminals have all PLUs locally, as well as promotions, frequent shopper data, suspend/recall, bad accounts, etc.	Sybase 7.4 for controller. Sybase client for workstations. Terminals have a full copy of Sybase. PLUs locally, as well as promotions, frequent shopper data, bad accounts. No suspend/recall offline.
Data Replication – Software	Single Master SQL database in MFS1. MFS2 takes a full copy at every EOD, and updates every 15 minutes – 1 hour. QDX tables in MFS2 are up-to-the-instant updated. Wizard rebuilds SQL tables in Controller #1 automatically from controller #2 backup and QDX data.	If server fails database is recovered from flat files from the lanes and rebuilt on server. The database is recovered from the nightly backup. The data collect file is obtained from the server to re-build the database up to the moment.
Other system architecture notes	Plan for “thin client” and Linux implementation in future	No plans for further architectures.

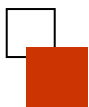
Database Scheme and Recovery

ISS45	BASSpoiNT
<p>ISS45 uses QDX files at the lane to run PoS. These files are also on the server along with SQL. Changes made to SQL change QDX files in the server, MFS2 and the lane. The lanes scan from the local terminal files and are updated in background mode while scanning (although a price will not be changed in the middle of an order).</p> <p>All new or modified items or data for PLU, Promotion, Check, Suspend/Recall etc. files are created at the Controller, the terminals check the controller to make sure that they are to date. The POST then retrieves all new information in background.</p> <p>At the end of each order the transaction is sent to the controller and processed there.</p>	<p>Sybase database resides on the controller with a full version of Sybase at the lanes. The replication of the data is at the lanes. BASSpoiNT creates a set of database files that is sent to the lanes.</p> <p>Any parameter changes on the controller require a rollover so the next time the lane talks to the controller the lane will see changes in the controller and pull them down and apply. This must be done for all changes.</p> <p>Item file changes are immediate. The lanes scan off the controller’s database as a default but have the option to go local.</p>
<p>Recovery: To rebuild the database in the event of a catastrophic failure, the SQL backup from previous EOD is restored along with periodic SQL backup-updates and the SQL transaction logs. These are stored locally in another computer on the network, usually MFS2. The QDX files are also zipped at EOD and are sent the MFS2. This back up is also restored to the MFS1 along with SQL.</p>	<p>Recovery: The database backups are stored at a lane. When a controller is rebuilt the database is retrieved from the storage lane and restored the database. Transaction logs can be stored on any device on the network. The logs are restored to the database. The lanes then send their activity since the failure and this information is updated the database.</p>



CUSTOMIZABILITY

Item	ISS45 8.4	BASSpoiNT
Database	Strong user can add tables and relate them to existing key fields. Some customization of QDX tables at PoS available	Strong user can add tables and relate them to existing key fields.
Data Access	Good use of Active-X with key files, but needs to improve data access in./out of SQL for other files and for General Batches	Sybase is an open database and can use almost any tools such a Crystal.
Look and Feel	Menusys.mac customization of touch screen application due for replacement by superior tool. Office tailoring (show/not show fields) good, but changes of office or PoS screens must be done by engineers and is time-consuming.	Fixed keyboard. Only able to lock out the keys not used (gray's field). Drag and drop for assigning key functions.
Receipt	Many parameters control organization and details. Major modifications requires engineering customization	Parameter driven.
Feature/Function add/modify	Many hooks, requiring programming knowledge.	User exits using COM interface. Programmer level.
Feature/Function tailoring	Excellent, full-blown parameterization with superb flexibility	Can group similar functions on screen e.g. balancing.
Reporting	Can use standard Crystal Reports to modify existing reports and create new ones.	Can use standard Crystal Reports to modify existing reports and create new ones.



ELECTRONIC PAYMENTS

Item	ISS45 8.4	BASSpoiNT
"Chicago" Concord	Yes — separate LAN	Yes on Server
BuyPa\$\$ Payments 2000	Yes — single LAN	Yes
MicroTrax/Hypercom	Yes — Single LAN	No
Ingenico/IVI/Plourde	Via Retalix EPS	No. Yes with BASSEPS
Retalix EPS	Yes — Single LAN	Yes
Atomic	Yes — Separate LAN	No
Shazam	Yes — Single LAN	No
Lynk	Yes — Single LAN	No
Other EPS		MPS (5 th 3 rd Bank)
Gift Card capability with:	Concord, MicroTrax, Payments 2000, Lynk	Concord, Payments 2000



THIRD-PARTY APPLICATION SUPPORT

FM Verification

Application	Company	ISS45 Status	BASSpoiNT Status
FM-Check FM Verification (V7 DOS)	Retalix / Retail Control Systems Ron Allnock (412) 776-5544 www.retalix.com	Yes, V7 only	No
FM-Track FM Verification (V8)	SofTechnics (405) 340-1900 www.softechnics.com	V8	No
Symbology FM Verification (V7)	Symbology Brian Richardson 714-851-9720 www.symbology.com	An FM verification application cleanly interfaced using the ISS45 API and with several satisfied customers. See Marketing Bulletin 1059 for additional information.	No
WINCOM/RF FM Verification and Shelf Label Printing (V7 and V8)	Windsor Systems Al Quarti (860) 399-7715 www.windsorsystems.com	This FM verification application now offers shelf label printing options. Cleanly interfaced using the ISS45 API and with several satisfied customers, most in the indirect channel. Cost is minimized by use of low-cost FM devices in place of more expensive units.	No
WSGP Price Management FM Verification (V7)	Windsor Systems Group Felix Burgos (787) 751-1392 www.windsorpr.com	This product performs shelf price validation, creates price change batches, Promotions /Reductions/Offer batches and "Frequent Shopper Keeper" (another Windsor Systems application) batches.	No
Pocket Office	Retalix	Coming with direct-connect to V8 and to RBO	Pocket office coming for RBO — no direct connect to BASSpoiNT.

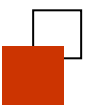
Signs, Labels and Graphics

Application	Company	ISS45 Status	BASSpoiNT Status
Label Master Shelf Label Printing	ELT (Electronic Label)	High-end shelf label and store sign application.	No

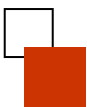
Application (V7)	Company	ISS45 Status	BASSpoiNT Status
Image Peddler Advertising at PoS	Hardhat Technologies, Inc. Jeffery Clark 888-422-4187 www.hardhattech.com	Image Peddler provides electronic in-store advertising to grocery retailers that can be viewed by shoppers on existing PoS monitors. One common application is to advertise "Next Week's Specials" this week. Advertising is custom-configured based on merchandising needs, using quality graphics. Image Peddler has been interfaced to ISS45, and used by such customers as Piggly Wiggly in the Carolinas.	No
Stylus Shelf Label Printing	Insignia Systems 952 930-8200	High-end shelf label and store sign application running on NT but not yet interfaced to ISS45. Have had preliminary discussions to accomplish this, but no customer commitments or hot situations to drive this for two or three years.	Yes
Easy Design Shelf Label Printing (V7)	Windsor Systems Group Felix Burgos (787) 751-1392 www.windsorpr.com	Windsor Systems Group provides this product that can design and print labels, show cards etc. by taking information directly from the ISS45 Item, Promotion or Batch files.	No

Back Office Suites

Application	Company	ISS45 Status	BASSpoiNT Status
ACI EDGE Back Office Suite (V7 DOS and NT)	ACI Glen Gregory (760) 942-2425	Powerful and with a large installed base in general retail, though not as large a base of supermarket users. Product is best	No.



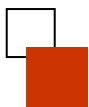
Application	Company	ISS45 Status	BASSpoiNT Status
MerchaNT	Bass/Retalix	supported in larger chains or large dealers with critical mass of sites and skills for support. This is the Big Brother of the ISS45 Back Office Options product, and shares its overall characteristics. Electronic Data Interchange, DPP reporting, purchase order management, etc. are available as add-ons, as are Frequent Shopper and Accounting (see below). With Retalix' purchase of Bass in September 2001, this product has been renamed Retalix Back Office (RBO). See Page 14 below.	Yes
BX-Express RBX	Bass/Retalix	Retalix has completed the RBX interface to ISS45 Version 8, and will complete the V7/RBX interface in Calendar Q4 of 2002.	N/A
DROSTE Back Office Suite (V7)	DROSTE Consultants, Inc. Kathleen Droste (978) 686-5775 kathy@droste1.com www.droste1.com	DROSTE offers a suite of applications that are designed to enhance ISS45 systems. DROSTE is an application developer with host support and in-store retail software experience, whose corporate strategy is to develop strong and lasting partnerships with customers.	No
EMS Miscellaneous back office applications Asset Back Office Suite (V7)	EMS Stacey Simonds (847) 267-8832 Fleming Companies www.fleming.com	Yes Asset has been written and supported by Fleming, and installations are typically limited to Fleming members and corporate stores, and at one point was one of the strategic	No No



Application	Company	ISS45 Status	BASSpoiNT Status
ISS45 Mobile Back Office All ISS45	Fujitsu www.ftxs.fujitsu.com/	products supported at Fleming. It appears likely that the Asset system will be replaced by TCI. Fujitsu now offers complete office functions running on a lightweight wireless Fujitsu TeamPad 7500. The demo for this is fairly dazzling, since anything you could do in the ISS45 office you can now do directly in the aisles. Fujitsu offers all the products you need to implement this design.	Not done to date, but architecturally compatible.
ISS45 Back Office Options FM Verification, Shelf Label Printing and Electronic Price Book (V7 DOS and NT, V8 TBD)	Fujitsu www.ftxs.fujitsu.com/	This is a standard available option for ISS45. The new Versions of this product eliminates the additional database, and provides FM Verification and Shelf Label Printing.	No
e-POSS Back Office Suite (V7)	MEI (509) 232-3177 www.meisolutions.com	MEI has interfaced their brand new e-POSS back office system to ISS45 V7, with a V8 interface promised. e-POSS provides a suite of back office solution applications, including inventory, pricing via FM, DSD, etc. modules. A new Headquarters Reporting system is included.	No
RBO Office Suite All ISS45	Retalix Tim Klingenberg 509-927-8866 tim.klingenberg@retalix.com	The Retalix Back Office system provides a suite of office operations such as DSD, Shelf Verification, Inventory, etc. Formerly known as MerchaNT (from Bass/Retalix) it is now interfaced to ISS45 Versions 7 and 8.	Yes
EBO Office Suite All ISS45	Retalix / Retail Control Systems Ron Allnock	The Extended Back Office system from Retalix provides a suite of office	No, moves to RBO.



Application	Company	ISS45 Status	BASSpoiNT Status
RORC Office Applications (V7)	(412) 776-5544 www.retalix.com	operations such as DSD, Shelf Verification, Inventory etc. Note that this product is being rolled into the "RBO" product above.	No
S4 Back Office Suite (V7, V8 TBD)	S4 Jim Anderson 402-694-4400 www.S4.com	The S4 interface to ISS45 has been updated in 1998 and offers a very powerful and thorough combination of ISS45 V7 on either NT or DOS with S4 Version 5. S4 is planning to release a version of their NT back office, operating with ISS45 V8 .	No
ChainTrack Back Office Suite (V7, V8 TBD)	SofTechnics (405) 340-1900 www.softechnics.com	The interface work to V7 was completed in June of 1997 with at least one major customer now well into their ISS45 rollouts (V7 NT) interfaced to ChainTrack. Other versions and modules of ChainTrack exist that may not be interfaced, however, SofTechnics and you must be specific when making claims with this product. A V8 interface had been committed at one time based upon a major customer requirement, but it has not been completed	No



Application	Company	ISS45 Status as of this writing.	BASSpoiNT Status
StorePoint Accounting	StorePoint	See ACI above.	No
IMS Back Office Suite (V7, V8)	TCI Solutions Bill Campbell (813) 975-8461 www.tcisolutions.com	Popular and heavily installed application suite, with a well implemented interface to ISS45 in the file management areas. TCI will consider "competitive upgrade" pricing with IMS in situations where the user has other products which will not support ISS45.	No
Retail Suite Back Office Suite (TBD)	TCI Solutions Bill Campbell (813) 975-8461 www.tcisolutions.com	This is TCI's newest Windows-based system, and very powerful and sophisticated. Interfaces to ISS45 are in development or completed.	No
WSPCTServer Price Checker Terminal	Windsor Systems Group Felix Burgos (787) 751-1392 www.windsorpr.com	This is a compact price checker unit with multiple units on a single network. It employs Serial, IP or FM for communications and does real-time price acquisition from the native ISS45 files	No

Labor Management

Application	Company	ISS45 Status	BASSpoiNT Status
HuerisTec Labor Management	HuerisTec 800-672-1181	This Labor Management system has been interfaced to ISS45 and is being installed in at least one large ISS45 account (Bashas, Phoenix AZ). ISS45 provides a data extract to feed productivity data to this system similar to the earlier S18 PCAF file format.	No



IMB People Planner
Labor Management

IMB Simplex
617-761-1400

Not currently interfaced to ISS45, but it's only a matter of time. IMB (now IMB Simplex) uses a standard data extract for all PoS systems, and Fujitsu will have to create this specific data extract to feed productivity data in the correct format for consumption by the IMB system. IMB does have a Windows-based scheduler which doesn't require any kind of interface, however, and it's a very neat product for devising easy-to-read and input schedules with union rules, etc.

Discussions have taken place but this is under customer control.

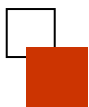
Scale Management

Application
Interscale
In-store scale system
management

Company
Interscale
Jim Ramsey
813-265 3708
www.ad-c.com

ISS45 Status
Interscale's system is designed to solve the problem of hosting several different scaling/deli systems (i.e. Hobart, Toledo, Bizerba) from a single host data set. It can be used with either an ISP strategy, and it can get data directly from the PoS system for price maintenance (requires an interface of course). Interscale offers SIL compliance using the new scale system data dictionary. Interscale has offered to help with ISS45 campaigns where scale system interfaces are required.

BASSpoiNT Status
No



CRM, Loyalty, Frequent Shopper, Couponing, Merchandising

Application	Company	ISS45 Status	BASSpoiNT Status
ACI Frequent Shopper (ISS45 V7)	ACI Glen Gregory 760-931-6940	As an add-on to the ACI product, this Frequent Shopper system is available. Many of its most important features, however, are available in RoundHouse and Frequent Shopper Express, products that may be of more interest to your customers.	Not in Back Office
Catalina ISS45 Merchandising (All ISS45)	Catalina Eric Williams 714-254-6741 www.catmktg.com	This is available as a standard ISS45 billable option.	Supported
Corema Frequent Shopper (V7, V8)	Fujitsu www.ISS45.fujitsu.com/	Corema is the industry-leading merchandising and frequent shopper system, with some of the nation's largest and most advanced chains using this system. This ISS45 interface with Corema supports shopper-specific on-line promotions and was released with ISS45 Version 7.5. Be aware that customization will almost certainly be required, however. A new interface has been developed for V7 and V8 that is far more sophisticated and uses in-store caching of member information in addition to on-line data. The "packaged" Corema Loyalty system targeted at 20-200 store chains uses the same interface.	No



Application
Advanced
Promotions Option
Frequent Shopper
(All ISS45)

Company
Fujitsu
www.ISS45.fujitsu.com/

ISS45 Status
The ISS45 Advanced
Promotions Option
includes a Member Card
system that provides for a
limited in-store database
of frequent shopper
cardholders. Along with
the FS capabilities at
ISS45, this may answer
many customer
requirements. The ISS45
capabilities are
unquestionably the most
comprehensive in the
business. It links to V2 of
Frequent Shopper
Express (see above) for a
wall-to-wall ISS45/Office
frequent shopper
application

BASSpoiNT Status
Not Applicable.

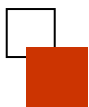
Frequent Shopper
Express
Frequent Shopper
(ISS45 and NT)

Fujitsu / ACI
www.ISS45.fujitsu.com/

This Streamliner version
provides Frequent
Shopper back room
options for use with
ISS45. See Marketing
Bulletin 1101 for details.
Note that Version 3
supports a number of new
frequent shopper
capabilities with the ISS45
Advanced Promotions
Option, including the
“Engineer” system for
setting up shopper-
specific promotions.

No

A powerful add-on system
is the “Frequent Shopper
Roundhouse” that collects
and consolidates data
from a number of stores,
allowing the independent
grocer to support a
coordinated frequent
shopper system with
identical data at all store
locations. Updates are
done in batch mode from
host.



Application	Company	ISS45 Status	BASSpoiNT Status
Incentech ISS45 Merchandising (All ISS45)	Incentech-CVC 800-677-0605 www.incentech.com	Incentech provides a shopper promotion capability using mailings and an in-store daisy-chain network. The ISS45 "Catalina" interface is used to send data to the in-store Incentech box. Stores have been installed since summer 2000.	No
Retail Applications Kiosk	Retail Applications Inc. 618-394-0053	This product has been designed to interface with ISS45 to provide Kiosk applications in stores. See Marketing Bulletin 1123.	No
Allegiance Frequent Shopper System	Triversity Peter Wolf (215) 785-4321 x496 pwolf@triversity.com	Popular especially with Tier II regional grocery chains, Triversity's Allegiance frequent shopper system was interfaced to ISS45 early in 2001. Currently, Allegiance accepts and manages an ISS45 Transaction Log for the data warehouse. As required, Triversity will build an on-line interface for real-time shopper-specific promotions.	Yes, installed.
VRMS Frequent Shopper System	Vallassis www.marketexpert.com	Yes	VRM
Coupon Printing ISS45 Merchandising (All ISS45)	Fujitsu www.ISS45.fujitsu.com/	An in-house coupon printing option is available at no charge on the ISS45 system that prints coupons on the basis of individual item or department purchases, item or department non-purchases and with minimum purchase controls.	Not available



Application

InfoPilot
(formerly APT
VisionValue,
formerly xiNETix)
ISS45 Merchandising
(V7)

Company

S&H Green Points
Danny Portal
dportal@greenpoints.com
www.greenpoints.com

ISS45 Status

This was a complex but very leading-edge application for its time that resided on a ISS45 in every lane attached to the ISS45 system. As the company sponsoring it has gone through many transformations, neither the old APT/xiNETix nor Fujitsu supports this system at this point. Based upon the item scanned, in real time it would process the information and provide promotions and information to the shopper. xiNETix has now become affiliated with Sperry & Hutchinson (S&H, the Green Stamps/Green Points people) and the product offerings are changing.

BASSpoiNT Status

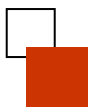
Yes, installed.

Portable Shopper
Shopper self-scanning

Symbol Technologies
Patrick Murphy
800-877-3897 x6348

With this device, the shopper in the store selects a portable unit from a bank of these scanner-terminals and scans the order as they are placed into the shopper's basket. The order is then retrieved from the portable system and automatically fed to the ISS45 for checkout and tender. This system has been successfully interfaced to ISS45 in a good-sized chain.

No plans



Self Checkout

Application	Company	ISS45 Status	BASSpoiNT Status
SCOT Self-Checkout (V8)	NCR	The SCOT interface with ISS45 was completed in early 2002 but not released due to the lack of field trial. This interface requires 8.4. Future versions of V7 may also support this feature, although this is not committed nor planned at this point.	No self-checkout support or plan.
U-Scan Self-Checkout	Optimal Robotics 800-828-6489 www.opmr.com	Optimal Robotics is working with Fujitsu to implement an interface to ISS45. At this writing, it was close to completion with a high priority.	No self-checkout support or plan.
ACM Self-Checkout	Productivity Solutions Inc. Michael Persky 904-641-2595 www.ps-inc.com	This interface has been completed and was generally released in 2002. This product is initially be available with V7 WinPoS and will migrate quickly to V8 .	No self-checkout support or plan.
QUICKcheck Self-Checkout	PSC www.pscnet.com	Appears to be a virtual Kyrus captive solution, with no interfaces to anything else available	No self-checkout support or plan.

Electronic Shelf Labels

Application	Company	ISS45 Status	BASSpoiNT Status
GLOBALLabel Electronic Shelf Labels (V7, V8)	Fujitsu www.ftxs.fujitsu.com/	GLOBALLabel is a new electronic shelf label technology. This product is truly leading edge, and solves a number of problems experienced by other ESL systems. The interface to ISS45 is can be demonstrated and we expect that additional refinements may required as it proceeds to installations.	No, use RBO and RBX available.



Application	Company	ISS45 Status	BASSpoiNT Status
Telepanel Electronic Shelf Labels (V7)	Telepanel 905-477-7877 www.telepanel.com	Telepanel has created an interface for their product No ISS45. The first site was installed in Q4 of 1999.	No
Decision Net Electronic Shelf Labels (V7)	NCR	NCR's Electronic Shelf Label program has been interfaced to ISS45. The first site was installed in Q4 of 1999.	Yes
Tagnology Electronic Shelf Labels (V7)	Tagnology Sergio Peratoner 888-824-6656	A newcomer to electronic shelf labels, Tagnology hopes to bring out a product soon, interfaced to ISS45. We have not been provided a schedule.	No

Accounts Receivable / Charge Posting

Application	Company	ISS45 Status	BASSpoiNT Status
Charge Posting In-House Charge Accounts (V7, V8)	Fujitsu	To fill the gap left by RDS, Fujitsu is working with ACI to develop a charge posting-A/R system with the intent of including this product with all ISS45 shipments. A release date is not available at this writing.	Bass charge posting.
Productivity Innovations Coop Membership	Productivity Innovations Tim Snyder 406-586-2347	This company produced a sophisticated membership system for co-ops which has been interfaced to ISS45 and installed. Of late 2001, however, Dealers have complained that their telephone calls are not returned by PI, however, and it the rumor is that Snyder has retired from this business.	No



Application
Charge Posting
In-House Charge
Accounts
(V7)

Company
Retail Data Systems
Bud Barr
316-943-9374
www.s4.com

ISS45 Status
This system has been interfaced to ISS45 V7 from the start, and provides a solid feature set which allows the clerk to ring up orders against an in-house charge account. Totals and payments are available at Dealers, and the back office provides capabilities for invoices, billings and adjustments. There will be no **V8** version of this system according to its author.

BASSpoiNT Status
No

Security and Loss Prevention

Application
Video Security
Loss Prevention

Company
American Video
Sophia, Alex or Steven
or 281-446-6077
www.americanvideoequipment.com

ISS45 Status
This video camera security system is interfaced to ISS45. ISS45 provides real-time scanning data (receipt tape information) to the video system for superimposing onto a video image of the lane. The interface is a parameterized feature of the ISS45 system using real-time printer data out an RS-232 port (regardless of whether or not the user is running Reorganized Receipt). The interface is a parameterized feature of the ISS45 system.

BASSpoiNT Status
In development.

Intercheck
Loss Prevention

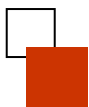
Pelco
Kevin Carpenter
800-289-9100
www.pelco.com

This video camera security system is interfaced to ISS45. ISS45 provides real-time scanning data (receipt tape information) to the video system for superimposing onto a video image of the lane. The interface is a

No.



Application	Company	ISS45 Status	BASSpoiNT Status
Sensormatic Loss Prevention	Sensormatic www.sensormatic.com	parameterized feature of the ISS45 system using real-time printer data out an RS-232 port (regardless of whether or not the user is running Reorganized Receipt). Note that early versions of this interface used pole display data, but the special printer data port is a superior solution.	No
Shrink-Trax Loss Prevention	Trax Software www.trax-usa.com	This application has been interfaced to ISS45 for several years, and is installed in multiple locations. It can be set up to provide intelligent problem and action reports based upon ISS45 transaction analysis, and produce readable weekly summaries.	Yes, installed.



Data Communications

Application	Company	ISS45 Status	BASSpoiNT Status
BHCS Communications (V7 DOS and NT, V8)	Fujitsu www.ftxs.fujitsu.com/	The old standard, it interfaces well with ISS45 using PCCS running on the ISS45 PC in the store. There are several differences between ISS45's implementation and that of S18, so don't take anything for granted. Special versions for Fry's and Fleming have been created to meet specific requirements. DOS and NT versions are available, and a new "BCOM" version is designed to support V8 using the Active-X business objects over TCP/IP with similar features.	No (N/A)
SIL Communications (ISS45 V7, V8 in 2001)	Fujitsu www.ftxs.fujitsu.com/	Critical for any SuperValu installation. Standard Interchange Language (SIL) is an official grocery industry standard, maintained and supported by the UCC (who also maintains the Uniform Communications Specification (UCS) and the Universal Product Code (UPC) systems. SIL offers a standard data dictionary and a subset of SQL in order to maintain store files via scripts, data for the scripts to act upon, and an engine to process the scripts. Any physical data movement method (from frame relay to diskette) is acceptable. The SIL engine and ISS45 SIL interface is a standard ISS45 option. The V8 interface is in development and will be completed in late 2001.	SIL through RBX and CIX, and RBO.



Application
GSS
Communications
(V7)

Company
Grocery Support Systems
Larry Wolfley
www.grocers.com/home.htm
619-247-1969

ISS45 Status
Several ISS45 customers are very pleased with the GSS system, and it is installed in many locations across the country. The first version of the interface was difficult for GSS to support, however, but GSS has been provided better tools and both ISS45 and the GSS software should work together even better.

BASSpoiNT Status
No

Indyme
Automated Paging and
Communications
(V7, **V8** TBD)

Indyme
David Angers
dangers@indyme.com
909-749-4528
www.indyme.com

ISS45 Status
Indyme has an exciting solution that provides automated paging, telephone, walkie-talkie and other telecommunications capability to a PoS system. ISS45 clerks can choose a message from a window and the system will route these message requests to be fulfilled from an Indyme controller that in turn activates the necessary device with voice simulation if necessary. Although this product has been demonstrated with ISS45, no standard and released interface is currently available.

BASSpoiNT Status
No



Application
Midwest PoS
Hosting and
Communications
(V7, V8 TBD)

Company
Midwest PoS
David Brown
800-773-4007
dave.brown
@midwestpos.com

ISS45 Status
Midwest offers a
centralized Host system
with interface to ISS45. It
provides centralized
maintenance while
collecting sales and
promotional history.
According to Midwest, it
has been in operation for
three years and will
handle up to 20 stores.
The piece in the store also
does shelf labels and RF
interface.

BASSpoiNT Status
No, CIX is BASS
standard.

Fuel

Application
Fuel Links
Fuel System
All ISS45

Company
Fuel Links
Brian Reynolds
214.277.8080
info@fuellinks.com
www.fuellinks.com

ISS45 Status
Fuel Links has
successfully integrated
their system with ISS45
(all versions). The Fuel
Links PC monitors the
ISS45 in-store network for
fuel transactions and
triggering purchases (that
will give shoppers
discounts) and manages
the fuel transaction
including pay-at-pump.
This system has been
successfully installed at
customer sites in the U.S.
Please see Marketing
Bulletin 1163 for details.

BASSpoiNT Status
No

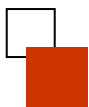
Fuel
ISS45 Fuel System
(V8 / WinPoS only)

Fujitsu
www.ftxs.fujitsu.com/

ISS45 V8 (8.4.2 and later, No
currently in limited
release) offers a complete
Fuel Interface with layers
for the office and PoS. As
many terminals as desired
in the system can be
equipped with the PoS
layer, which provides
complete touch-screen
graphics. Pay At Pump is
provided (PayPoint
interface — other
payments providers will
require integration). Car



Application	Company	ISS45 Status	BASSpoiNT Status
Gilbarco Gas Pump Interface (V7 only)	Fujitsu www.ftxs.fujitsu.com/	Wash and Wet Stock Management options are expected to be available in the future. ISS45 Fuel provides completely integrated reporting with the store, and special fuel reporting options are also available. The ISS45 Fuel Option interfaces to a very large variety of pump controllers and station devices (signage, etc.) via an Allied Controller. An interface to a Gilbarco PAM-1000 has been developed and was at one point offered as a standard ISS45 option as of 7.4.4. This product has been withdrawn — however it remains on this list for reference. The capabilities include some hook control and prepaids, and then pulling over the transaction data — ISS45 actually does everything the Gilbarco PAM-1000 allows us to do. The Gilbarco PAM-1000 is attached via RS-232 to a single ISS45 terminal. See Marketing Bulletin 1140 for full detailed information.	No
Smart Echo Fuel Merchandising System	Smart Echo Gary Emineth Gary.emineth@smartecho.com www.smartecho.com	A direct competitor to Fuel Links, Smart Echo offers a centralized real time discounting solution - from a central SQL Server over the retailer's WAN. A loyalty card links all discounts and also the pre-paid purchase of fuel in the checkout lane. This is done in the checkout lane linked to ISS45 department or PLU (no transaction fee). By the	No



Application	Company	ISS45 Status	BASSpoiNT Status
		end of 2002, Smart Echo expects to interface into BP, Mobil-Exxon, Shell and Texaco brands.	
Other	IDC	Supports data collect for Frequent Shopper.	Yes, installed
Other	RMS	Same as above	Yes, installed

Other

Application	Company	ISS45 Status	BASSpoiNT Status
Coinstar Coin Handler V7, V8	Coinstar Bill Booth 813-787-1427 www.coinstar.com	The Coinstar system provides an easy way for shoppers to empty their pockets and purses of accumulated coins. Just dump the coins into a hopper and it counts the coins and prints a scannable receipt for the amount, less a reasonable commission. The receipt can be scanned as tender at checkout with ISS45.	No



GENERAL FEATURE COMPARISON

Product Features

Item	ISS45 8.4	BASSpoiNT
Multiple Language Support	Single keypress For clerk or for shopper Includes item detail translation	Not available
Suspend and Recall	Fast recall from any terminal Works in offline mode at same terminal No Limit to quantity Partial Tender Change languages in mid-receipt Recall by transaction number, bar code and even frequent shopper ID	Same as ISS45 but cannot save/recall offline.
True post-transaction void	Yes	Not available
Receipt Logos	Yes	Yes
CRT cashier functions	Lookups Change with underlying data Rain checks GUI look/feel but uses DOS User-definable flip charts	Yes Yes No No DOS support Exceeds 45. No item bmp support. User definable flip charts – Drag and drop GUI to create flipcharts dynamically.
Transaction discounts	Yes	Yes
Linear input key	Yes	No
Check printing	Yes	Yes
Check fee system	Yes	Yes
Reorganized receipt	Yes	No, cannot combine like items or by department. Can group similar items to print together. I.e. If 7 Pepsi bought will print 7 lines with each Pepsi item.
Full merchandise return with onscreen lookups for reasons	Yes	Yes
Return slip printing	Yes	Yes
“Not Found” PLU slips can be printed	Yes	Yes

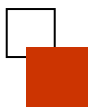
Item	ISS45 8.4	BASSpoiNT
Automatic Tare system	32 Tares, all with programmable names Incremental/proportional tares Tare force option	Yes
Currency conversion	Single-key conversion Single-key selectable change, too Currency denomination control system	Yes Yes Yes
Ad loop-Ads loop on customer display during order process	No	Yes
User defined help screens	Yes	Yes
Alter item already scanned- Tax reverse, price, qty, etc	No	Yes
Line item scroll for voids	No	Yes
Graphics on Groups	Yes	No
Same item repeat counter and description on cashier display allowing cashier to keep track of # scanned.	Yes	No
Special note:		All lists at PoS are dynamically created through GUI applications on the server and automatically read by the PoS. The dynamic lists are flipcharts by work group, department list, department selection by workgroup, tender list and tender display order. The PoS is completely controlled by parameters located in the database. No hard code scripting is required.

Security Features

Item	ISS45 8.4	BASSpoiNT
Manager Logon Security, flexibility, tailorability, ease of use	Create users, menus, assign users to menus	Use NT logon to define access by user.
Clerk Logon Security, flexibility, tailorability, ease of use	When clerk signs on, first time, assign password.	When clerk signs on, first time, assign password.



Item	ISS45 8.4	BASSpoiNT
System Alerts	Automated 130+ alerts for cash-in-drawer, etc.	Only 2: Cash in drawer warning, Cash in drawer lockout
Positive/Negative credit system	“ECCA” method Customer Information input Auto-building of files Full parameter flexibility Number of checks per week, etc. Multiple templates for check types MICR read input for check account number	With BASSPAYMENT Yes
Bagger ID	Yes	No
Control Check system	User Defined for Risk situations Many flexible options to set necessary response given circumstance Absolute prohibit, manager interaction, hard key, slip print, clear key etc. Manager card entry Delayed supervisor authorization — wait until end-of-order for best customer service	Yes Yes Yes Yes
WIC	Individual item eligibility Total price input Date control input Issue Date Control option Validity Period control option	Yes Yes Yes Yes Yes
No-sale totals	Yes	Yes
Clerks can change password at sign-on	Yes	Yes
Restricted sale control	Two zones per day Easy PC screen setup	Unlimited zones



Item	ISS45 8.4	BASSpoiNT
Birthday validation	<p>Four Levels</p> <p>First trigger item only</p> <p>Control Check escape</p> <p>Writes birthrate on receipt</p>	<p>Same</p> <p>Yes, if consecutive items are in liquor and a non restricted item is scanned then another restricted item is scanned, prompted for ID. Used for cashier age. Validation is done on both the customer and the cashier. Four options can be selected: No validation, Validation on each item, once per transaction, Validate once for consecutive items if a non-restricted item is scanned between restricted items then both items would require validation based on the age of customer and checker.</p>
Cashier monitoring	<p>Complete screen</p> <p>From Workstation</p> <p>Multiple simultaneous</p> <p>High performance - no tip-off</p> <p>From TeamPad</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Not installed, but architecturally compatible</p>
Electronic Journal	<p>Multiple selectable series or random dates to analyze</p> <p>Big menu of search options</p> <p>Even by text or frequent shopper purchase</p> <p>Entry/Exit from Training Mode</p> <p>Can find/check last clerk order</p> <p>Blow-out to Register Tape</p> <p>User-defined save period</p> <p>Standard DOS files</p> <p>Instant statistics and analysis included</p>	<p>Only by date, clerk, terminal, transaction #, terminal #, or description.</p> <p>Item alpha only</p> <p>Yes</p> <p>No</p> <p>Yes</p> <p>Yes</p> <p>No, DOS not applicable</p> <p>No</p>
DEA Control System	Yes	No
Manager Job accounting	Yes, menu access	Yes, logs are kept for ALL access and all changes.
Competitor coupon acceptance tracking	Yes	Yes
Logging	Yes, users that access a menu item	Yes, users that access a menu item AND what the changed.



Item	ISS45 8.4	BASSpoiNT
General Strength of security system	Electronic journal a plus	

Merchandising Features

Item	ISS45 8.4	BASSpoiNT
Advanced Promotions	Very flexible Criteria/Reward system, all can be triggered by Frequent Shopper status	Use pricing methods (19). Must be done item by item. No groups.
Cross-Product LQD	Yes	Yes
Native Frequent Shopper Capabilities	Instant Frequent Shopper	Yes
Add-on Frequent Shopper Capabilities	Corema Frequent Shopper Express	No BASS customer file option
Bonus Coupons	Strong/Flexible capability	Yes
Coupon scanning and validation	4-levels Default Manufacturer Code Full Family Code 1-digit Family Code Dual family code field Separate report totals for scanned Vs. non-scanned	Yes Yes Yes Yes Yes Yes Yes
Graphic idle screen manager	Unlimited Programmable rollover rate Terminals separately controllable	Unlimited Yes No, all terminals display the same graphics.
Coupon Printing	Automatic Up to 100 Bar coded Based on item, department or order total Frequent shopper number can be included	Not available
Cost-Plus capability	Yes	Yes



Item	ISS45 8.4	BASSpoiNT
General Strength of Merchandising Capabilities	Member promotions, coupon printing	BMP of items scanned displays on customer display and text on the item i.e. "On sale next week." Easy to use GUI application to create ad loops and tie the images and text to an item.

Operations/File Management Features

Item	ISS45 8.4	BASSpoiNT
Automatic discounts by itemizer field	Yes	Yes
Secondary PLU auto scan/lookup	Linked PLU	Linked PLU
Internal Codes	Used for vendor number, warehouse #, etc	Requires RBO
Code 128 support	Yes	No
Mix-match group price changing capability	Change on M/M # all change	Same
Real-time sales reporting	Report changes instantly as source data changes From any workstation From host with Remote Operator	Yes Yes Yes
Department report available at PoS terminal	Yes	No
24-hour operation	No pause Automatic sign-off Do EOD from any workstation Delayed cashier balancing Parameters for accounting impact Automatic EOD job stream Table for automated closing times	No pause Yes Yes Yes Yes Scheduler
Customer service alert	Automatic warning to manager office if more lanes need to be opened at PoS	No. Only 2 alerts, CID warning, CD lockout.
System monitoring	Service monitoring-General, RSMSRV, TRANS,QDX,TRANSCLI, SRVBAT, SQL, APP	Monitors status by process-Financial, Item movement, Data collect, electronic journal
Help screens	Hooks for customized programming. Multimedia links in development	If right click on field, a help box is displayed describing the field and what to do.



Item	ISS45 8.4	BASSpoiNT
Software upgrades	Fully automated software management in development	Patches are loaded on server when lane is re-started updates are applied.
Scale item	If item is not on scale, must clear and re-enter the PLU.	/if item is not on scale terminal waits for the item to be placed on scale and rings the item in. No need to re-key the PLU.
Line item voids	No	Yes, scroll to item then void.
Cashier status information	Text i.e. Tax exempt, food stamp reversal, WIC...	Cashier display has an icon tray that displays icons instead of text
System parameters reporting	Print screens	Report menu to print report of parameters. Reports may be printed through maintenance as well.
Customer 2X20 on display	No	2X20 large green font on back background displaying the last item scanned.

Reporting Features

Item	ISS45 8.4	BASSpoiNT
Number of different reports available	Many, would need to count	Many, would need to count
Flexibility of changing reports	Crystal	Crystal or XML to create own
Ability to add new reports	Crystal	Crystal
Real-time report availability	Yes	No reports, only System monitoring. Available through RBO and RBX.
Speed/performance of report generation	Equivalent	Equivalent
Overall Strength of Accounting Reports	Multiple reports to get all information	Fewer reports required
Overall Strength of File/PLU Reports	10 menu reports on PLU Reporting	None — requires RBO
Overall Strength of Security Reports	User access log-displays menu entry by user	Same, but displays what was changed.
Overall Strength of Cashier Reports	Complete reporting	Complete reporting
Overall Strength of Merchandising, Promotions, Ad-Loss Reports	Produced at EOD for reference	None — requires RBO
General Strength of Reporting Capabilities		Fewer reports are required to obtain same information. Usually one report..

Other Operations Features

Item	ISS45 8.4	BASSpoiNT
Training Options at Terminal	Terminal menu selection putting the terminal in training with cashier using actual clerk number	Must create training cashier numbers e.g. 98.99...
PoS Alerts	Write custom messages Link them to events Auto display at PoS (or back room) Clerk-selectable messages to back office screens or WWW Also send to pagers, cell-phones, walkie-talkies using Indyme	Only 2 alerts – Cash in drawer limit warning and lockout.
POSMail – System Messaging	ISS45 Message Center All or just one terminal Immediate display or at sign-on Clerks can send messages to other terminals	None. Hooks there never implemented.
Automated Charitable Giving	Yes	Yes

Accounting Features

Item	ISS45 8.4	BASSpoiNT
Accounts Receivable System – 3 rd party	Fully integrated Redundant/Replicated Real-time updates Shows balances, etc. on screen Prints on receipt Full back-office file	3rd party – BASS customer file option.
End Of Day Process	Manual or automatic – terminal is in EOD process for 2-3 minutes	Same. No downtime. Cahier receives a message “EOD in progress please sign off” She does. Logs on immediately and continue to ring. No files re-load.
Delayed Balancing Process	2 periods-current and previous. If locked (settled) can re-adjust media if parameters set	Same. However once settled cannot make adjustments



Item	ISS45 8.4	BASSpoiNT
Balancing Methodology	Closed Accounting. Media Is tracked from safe receipt to loans to pickups to bank deposits	Same
Safe Accounting	Yes	Yes
General Accounting ease of use and intuitiveness	Similar	Similar but requires fewer steps. Reports are displayed when cashier is settled.
Trial balance report	Yes	No
General Strength of Accounting Capabilities	Complete accountability	Same, with fewer steps. Reports are automatically displayed.

