



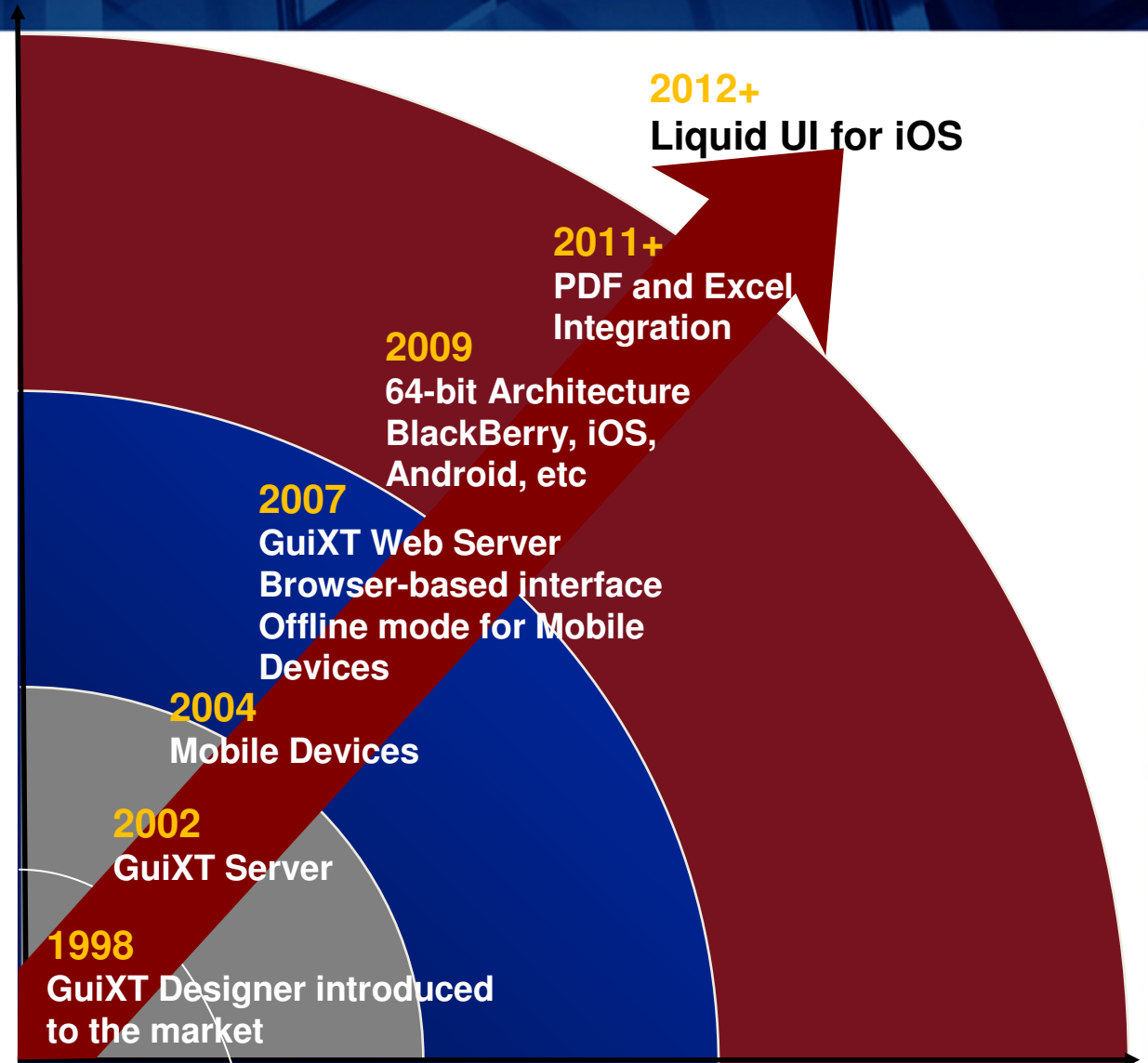
SYNACTIVE

GuiXT Liquid UI for iOS: Simplify and Extend SAP Transactions to Your Barcode-Enabled Mobile Device December 12, 2012

DeeDee Kato – Director of Product Marketing
Andy Rindfleisch - Process Improvement
Manager, Welch Allyn

Synactive At A Glance

- Founded by
 - Thomas Ewe (developed JavaGui in SAP Labs)
 - Dr. Gerhard Rodé (Initiated and developed ABAP in SAP AG)
- GuiXT packaged with SAP since 1998
- GuiXT has SAP-certified integration with SAP NetWeaver
- 900+ Customers / Thousands of Users
- In use by SAP Solution Engineers



Breadth of Customers

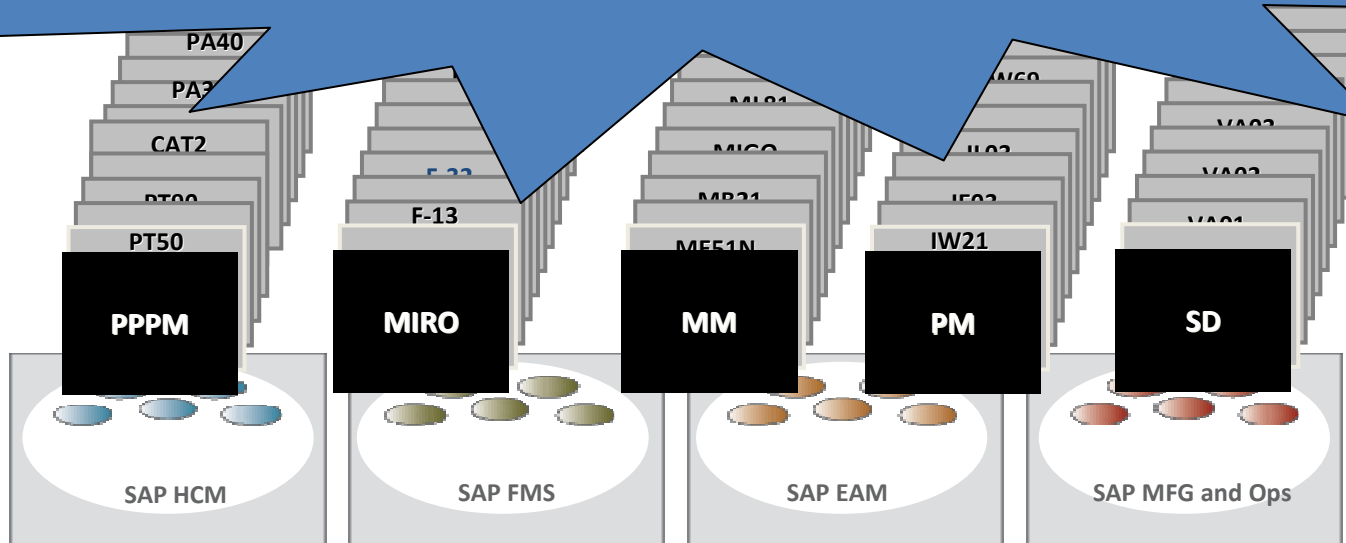
Over 900 Customers Across Multiple Industries



Business Issues



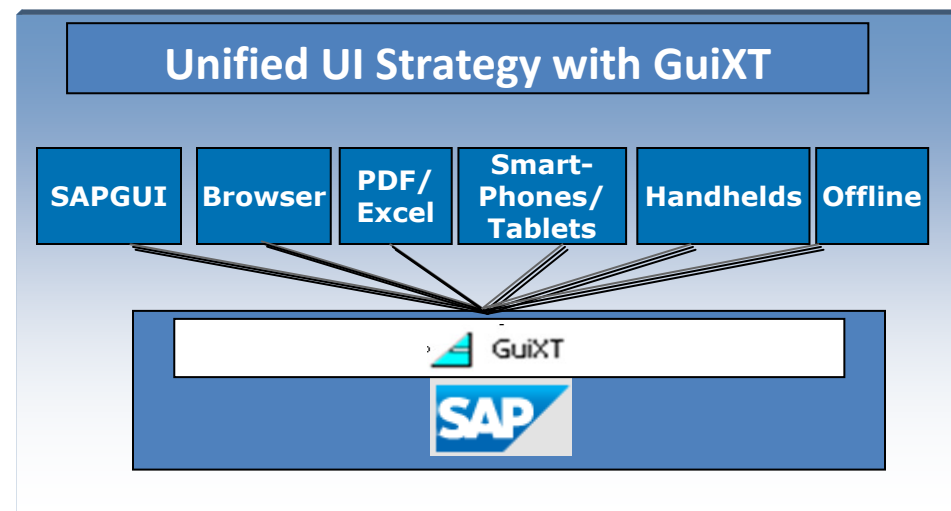
Non-Intuitive interface leads to user errors, data integrity issues, user adoption issues and additional training requirements!



360° User-Friendly SAP Experience

Turn IT Into A Business Driver!

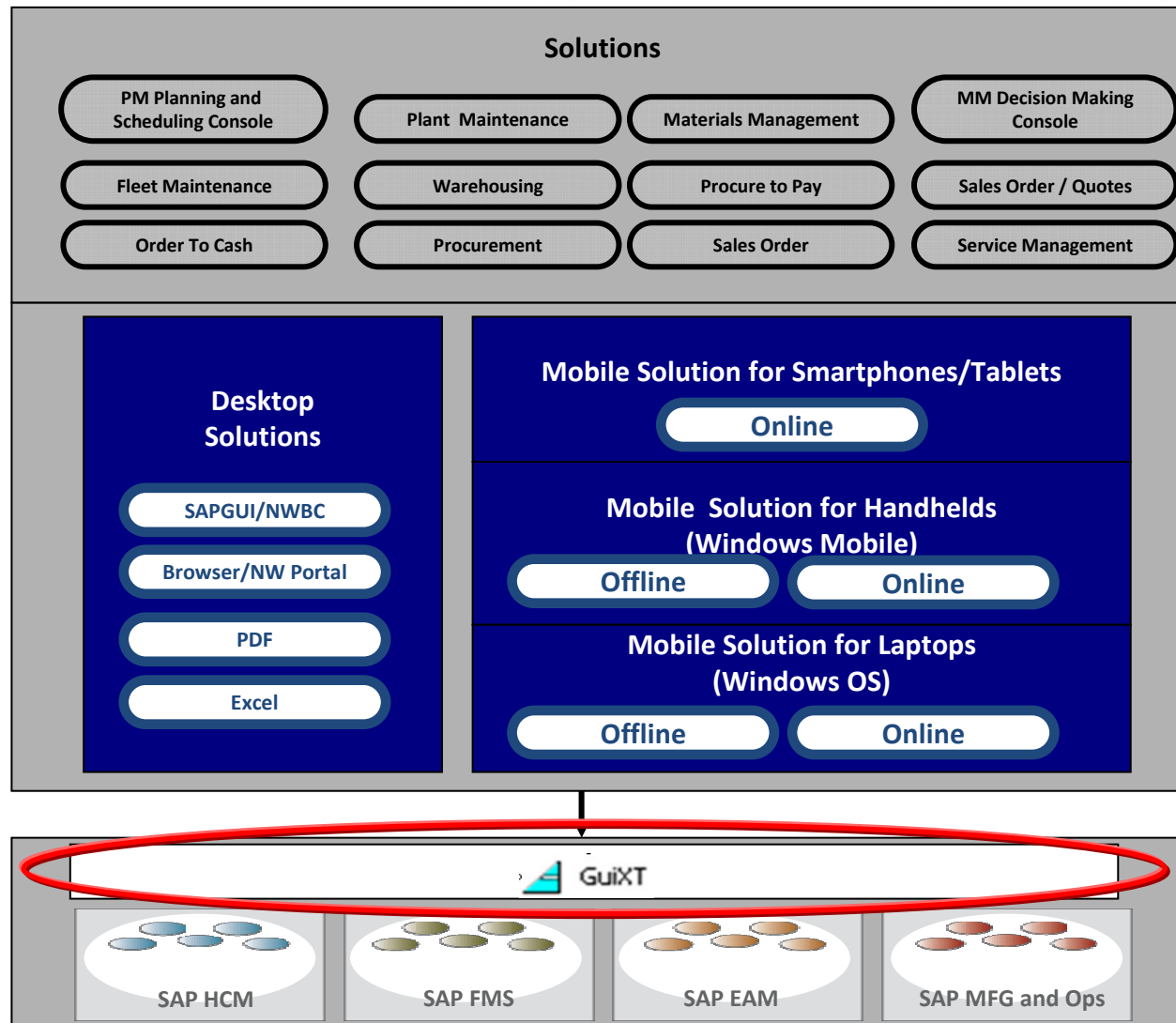
- **Direct connection to SAP to leverage all SAP security, authorizations and validations**
 - No recoding or reproducing data outside of SAP
- **No 3rd party application server required**
 - Reduce the heavy burden of Bloatware
- **Start from SAP and use scripting to change the front-end**
 - Rapid ROI
 - Implement the capabilities you need now; then add more as your requirements grow over time



Bridge the gap between the Business and IT
Quick Wins, Strategic Advantage

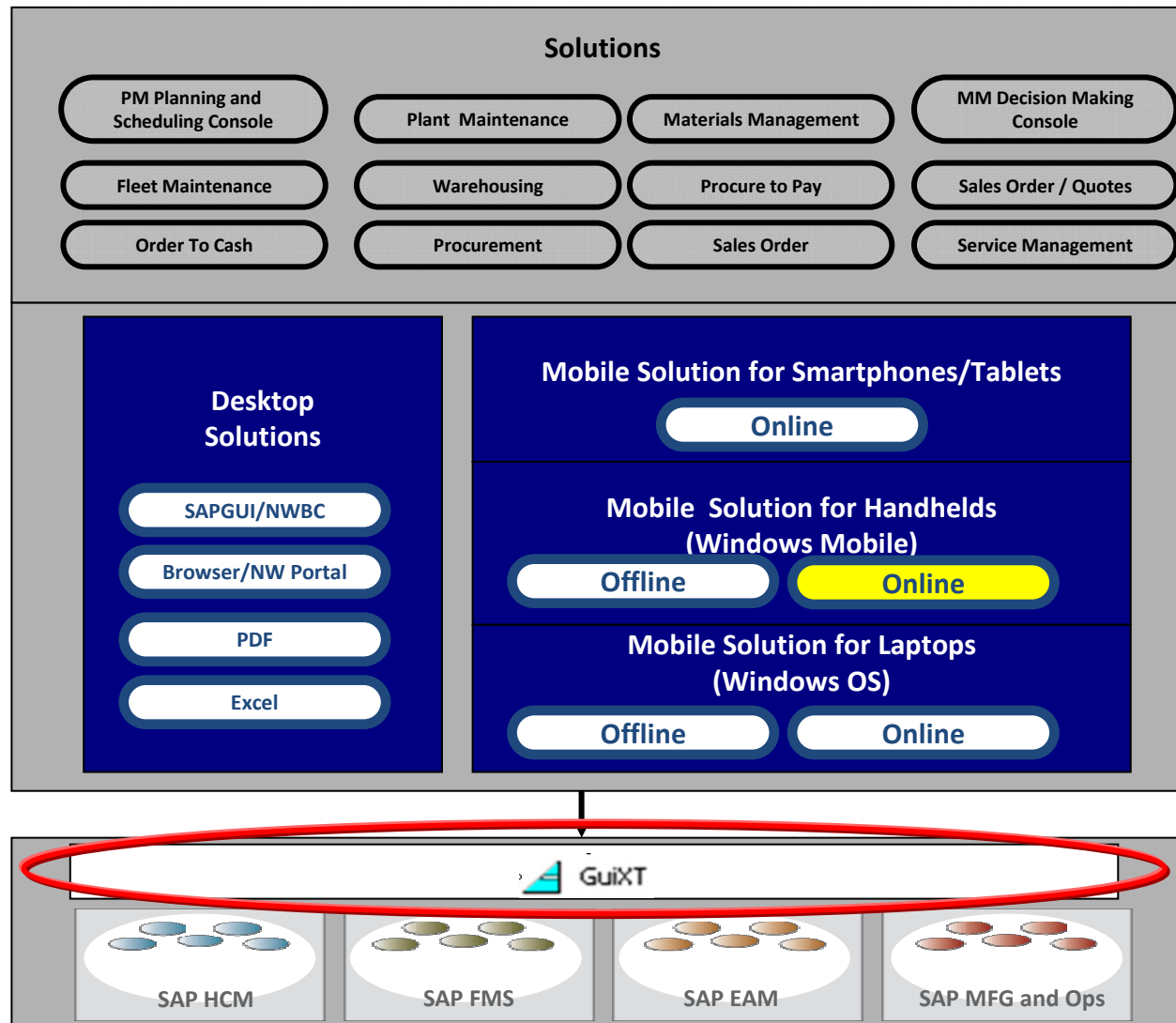
GuiXT Products and Solutions

Developer Toolkit



GuiXT Products and Solutions

Developer Toolkit



Introducing Andy Rindfleisch, Process Improvement Manager, Welch Allyn

Welch Allyn Company Info



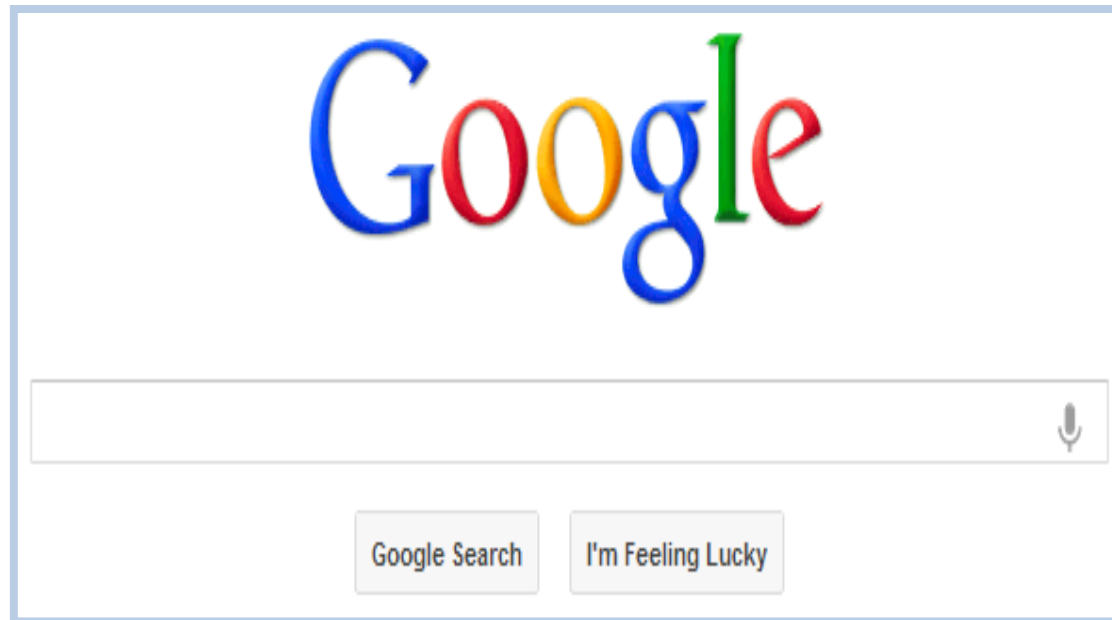
Welch Allyn is privately-held company that manufactures and distributes medical devices focus on "frontline care" so patients can be efficiently and effectively diagnosed and treated.

My role is a Process Improvement manager in manufacturing. Doing a lot of SAP, Lean, and Process work.

WelchAllyn®

What would the user like?

A simple interface,



using fun devices.

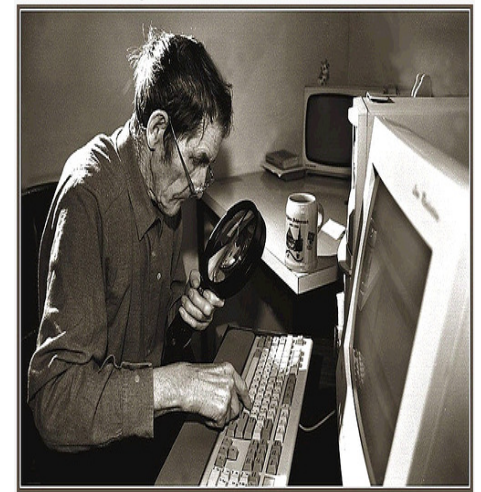


What are we giving them with SAP?

A complex interface,



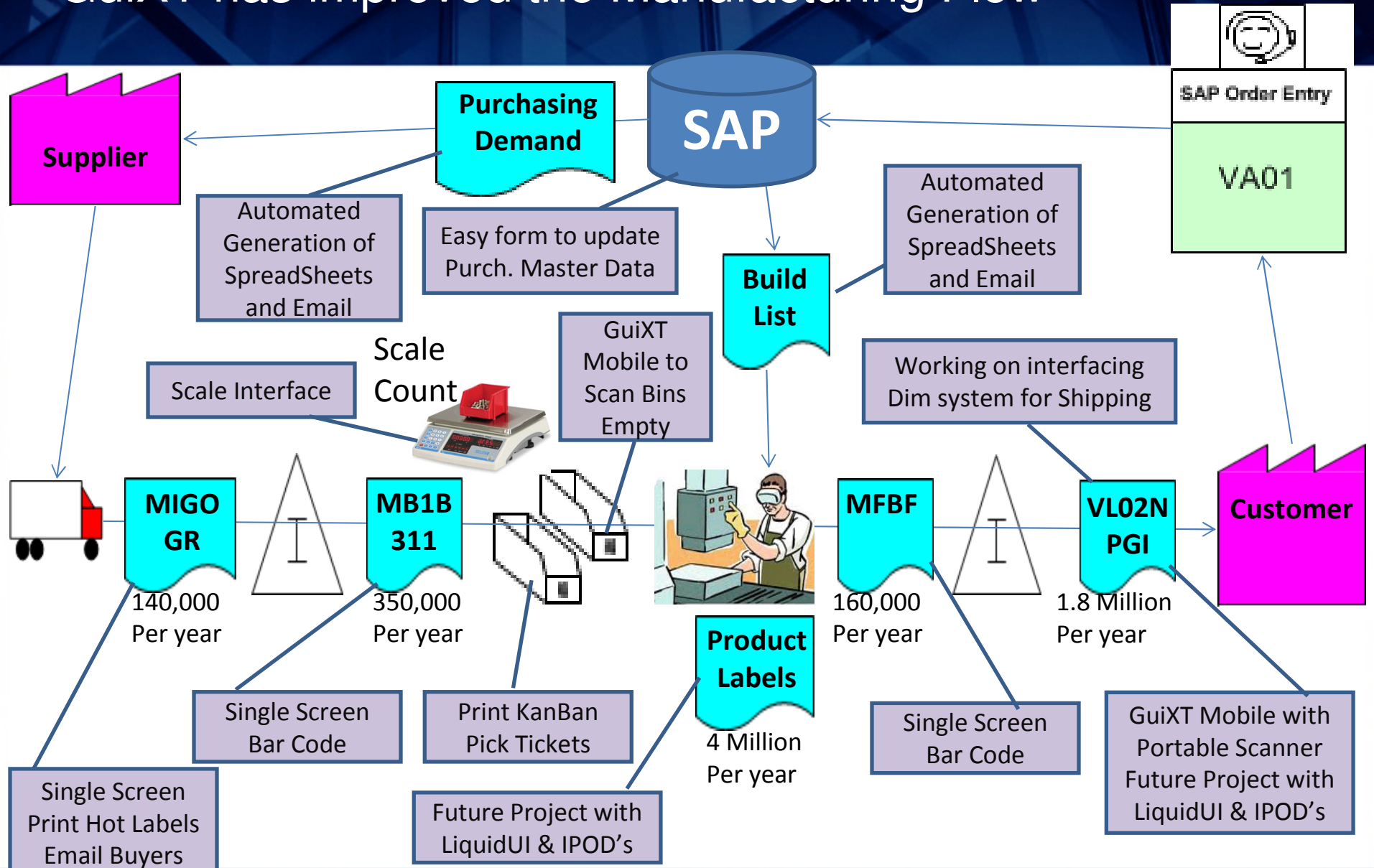
using old hardware.



How can we use GuiXT to make SAP easier?

- **Simple - single - screen transactions.**
 - SAP is set up to do everything. Transactions can have hundreds of fields, multiple tabs, and require several screens to complete.
 - Most of the time we only need to update a handful of fields and ideally we'd like to do it in just one screen.
- **Bar Code enabled** the SAP screens with GuiXT.
 - You can put a fully functional bar code system in place with GuiXT, TalTech ActiveX, and a Scanner for less than \$2500.
- **Automation** – Why spend hours creating reports? Let GuiXT:
 - Down loading SAP information
 - Push the data into Excel
 - Automatically email the reports, before folks even wake up.
- **Interfaces** – use GuiXT to interface SAP to PC Systems and PC hardware.

GuiXT has improved the Manufacturing Flow



A Few Concepts

- Every SAP screen has a name with screen elements.
- GuiXT will execute a script when the SAP screen name and the script file name are the same; or when the user clicks a pushbutton.
- The flow of execution is not controlled by the program – but rather event driven by the screens appearing.
- GuiXT scripts can do amazing things. They can fill in data, select check boxes, add command buttons to run other scripts, hide screen elements, move elements, add pictures, read & write files, and lots of other stuff.
- GuiXT scripts can start PC applications.
- PC applications can start GuiXT scripts.

This enables us to
create interfaces

Simple - single screen - transactions.

GuiXT is used to put all the input fields on the first screen, and to create a Push button to fill out and process the subsequent screens.

For the MB1B we went from 2 Screens with 20 fields to 1 Screen with 8 fields.

Enter Transfer Posting: Initial Screen

New Item To Reservation... To Purchase Order... WM Parameters...

MVT 311 PLNT 1041 Mat1 11710 Qty 1 FROM stck TO prod SLIP test ms DLVR KB WC4101

Process

MB1B waira3 INS

This format is also nicely set up to allow barcoding.
350K transaction a year

Simple - Single screen transactions. How is it done?

// GuiXT script file C:\GUIXT\SCRIPTS\sapmm07m.0400.txt

//Create input fields

InputField	(0,0)	"MVT"	(0,4)	Size="3"	Name="MVT"	Default="311"
InputField	(0,8)	"PLNT"	(0,13)	Size="4"	Name="PLNT"	Default="1041"
InputField	(0,18)	"Matl"	(0,23)	Size="18"	Name="IMATL"	Default="xxxxxx"
InputField	(0,42)	"Qty"	(0,46)	Size="8"	Name="IQTY"	Default="1"
InputField	(0,55)	"FROM"	(0,60)	Size="4"	Name="FRMLOC"	Default="stck"
InputField	(0,65)	"TO"	(0,68)	Size="4"	Name="TOLOC"	Default="prod"
InputField	(0,73)	"SLIP"	(0,78)	Size="10"	Name="MSLIP"	Default="test ms"
InputField	(0,89)	"DLVR"	(0,94)	Size="15"	Name="DLVR"	Default="KB WC4101"

MVT 311 PLNT 1041 Matl 11710 Qty 1 FROM stck TO prod SLIP test ms DLVR KB WC4101

Process

Simple - Single screen transactions. How is it done?

// **Create a Push Button** – can also be run by hitting a function code

```
Pushbutton (1,92) "Process" "FCode=/11"  
Process="c:\DATA\MB1B_311\MB1B.txt"  
USING OIMATL = [IMATL]  
USING OIQTY = [IQTY]  
USING OTOLOC = [TOLOC]  
USING OFRMLOC = [FRMLOC]  
USING OMSLIP = [MSLIP]  
USING ODLVR = [DLVR]  
USING OMVT = [MVT]  
USING OPLNT = [PLNT]
```

// Move the cursor to the first input field.
SETCURSOR (0,4)

MVT	311	PLNT	1041	Mat1	11710	Qty	1	FROM	stck	TO	prod	SLIP	test ms	DLVR	KB WC4101	Process
-----	-----	------	------	------	-------	-----	---	------	------	----	------	------	---------	------	-----------	---------

Simple - Single screen transactions. How is it done?

//C:\DATA\MB1B_311\MB1B.txt called by process push button

// Get the input fields

PARAMETER OIMATL
PARAMETER OIQTY
PARAMETER OTOLOC
PARAMETER OFRMLOC
PARAMETER OMSLIP
PARAMETER ODLVR
PARAMETER OMVT
PARAMETER OPLNT

// Fill out the fields on the first screen, and hit the F8

Set F[RM07M-MTSNR]	&[OMSLIP]
Set F[MKPF-BKTX]	&[ODLVR]
Set F[RM07M-BWARTWA]	&[OMVT]
Set F[RM07M-WERKS]	&[OPLNT]
Set F[RM07M-LGORT]	&[OFRMLOC]
Enter "/8"	//Execute

// Fill out the fields on the second screen and save

Screen SAPMM07M.0410	
Set F[MSEG-MATNR]	&[OIMATL]
Set F[DM07R-MB_ERFMG]	&[OIQTY]
Set F[RM07M-TULGO]	&[OTOLOC]
Set F[MSEG-WEMPF]	&[ODLVR]
Enter "/11"	//Save


*How easy is that?
Cuts Transaction time
in half!*

Bar Code Enabled Screens with GuiXT.

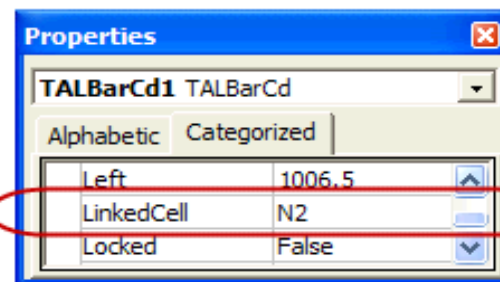
1. We put all the fields together and we enabled the push button with a function key.

MVT	311	PLNT	1041	Matl	11710	Qty	1	FROM	stck	TO	prod	SLIP	test ms	DLVR	KB WC4101	Process
-----	-----	------	------	------	-------	-----	---	------	------	----	------	------	---------	------	-----------	---------

2. Use Excel to print the labels, that we laminate, and put on Bins using Velcro.

	N					O	P	Q			R	S		
1														
2	3111041405504	20	STCKPRODKB	Line	KB WC4605	□	Green Series	PART: 405504						
3								WC: WC4605 QTY: 20 EA						
4								STCK CTRL BOX FRONT MOULDING PRINTED KanBan						
														MB1B/311

3. TalTech is an ActiveX that allows you to create Bar Codes from the contents of an Excel cell.

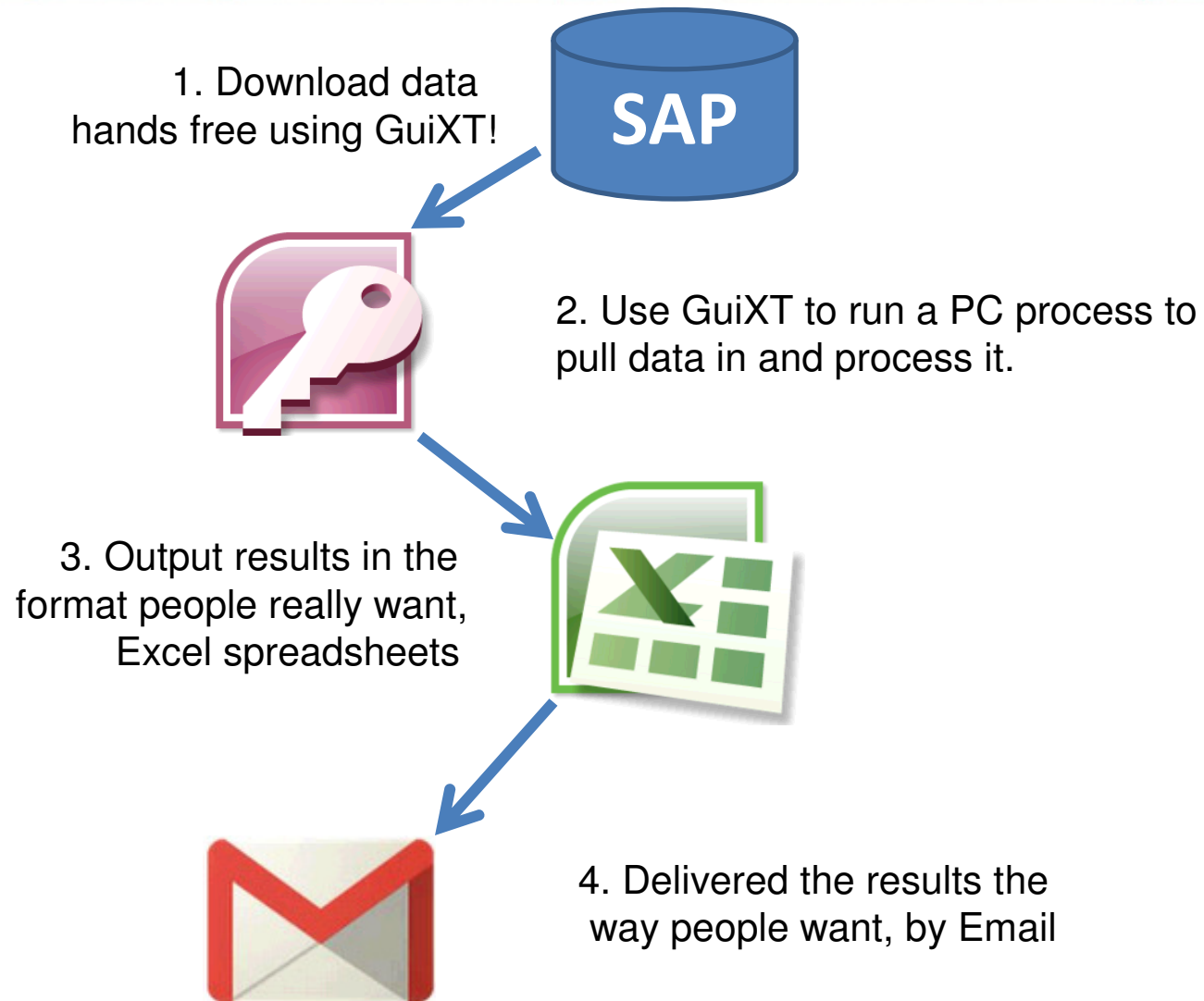


4. Then you just need a bar code scanner connected to the USB port.

\$39.99



Automation



Automation – How to do it.

- ' Set up an Access data base with an autoexec marco to run this code
- ' Use windows scheduler to run it at night.

Function Downloads_from_SAP()

' Kill SAP Logon

RetVal = **Shell("taskkill /IM saplogon.exe")**

Tries = 0 ' logon tries

Do ' Try to start SAP several times

RetVal = **Shell("C:\Prog~files\~~~\sapshcut.exe -sysname=WAP -client=900 -user=MySAPid -pw=MyPW")**

Tries = Tries + 1

Sleep 60000 'Sleep for 60 seconds

Loop Until isRunning("SAPlogon.exe") Or Tries > 6

'Failed to log on. Quit

If Tires > 6 Then

Print #1, "Failed to start SAP, quit. " & Now()

Exit Function

End If

'The following Shell command runs the GuiXT script to download the information

RetVal = **Shell("C:\Prog~files\~~~\guixt.exe Input=OK:process=c:\data\GuiXT_script_file.txt")**

Quit 'Close this application

End Function

Automation – How to do it.

// c:\data\BatchJobs\GuiXT_DL_Script.txt

// The Access data base runs this script after it logs on to SAP.

// This script then runs other scripts and PC processes.

// Run the BenchMark scripts

Include "c:\data\BatchJobs\Script_Email_BenchMark.txt"

// Down load all the Material Master tables, and run a batch file to put them in a data base on a shared drive

Include "C:\Data\SAP_MM\MM_GuiXTscripts.txt"

View "C:\Data\SAP_MM\Get_Data.bat"

// Run the Purchasing VMI scripts, and then run the Access Database to send out emails to suppliers

Include "C:\Data\purchasing\VMI_SCRIPTS.txt"

View "C:\data\purchasing\VMI_Reports.mdb"

// run vb code to make the Zserv_GuiXT_Script

View "C:\data\service\Mak_Zserv_GuiXT_Script.mdb"

// run the Zserv_GuiXT_Script

Include "C:\Data\service\ZServ_GuiXT.txt"

// FTP the service files

View "C:\data\Service\Ftp_files.bat"

// Log off SAP

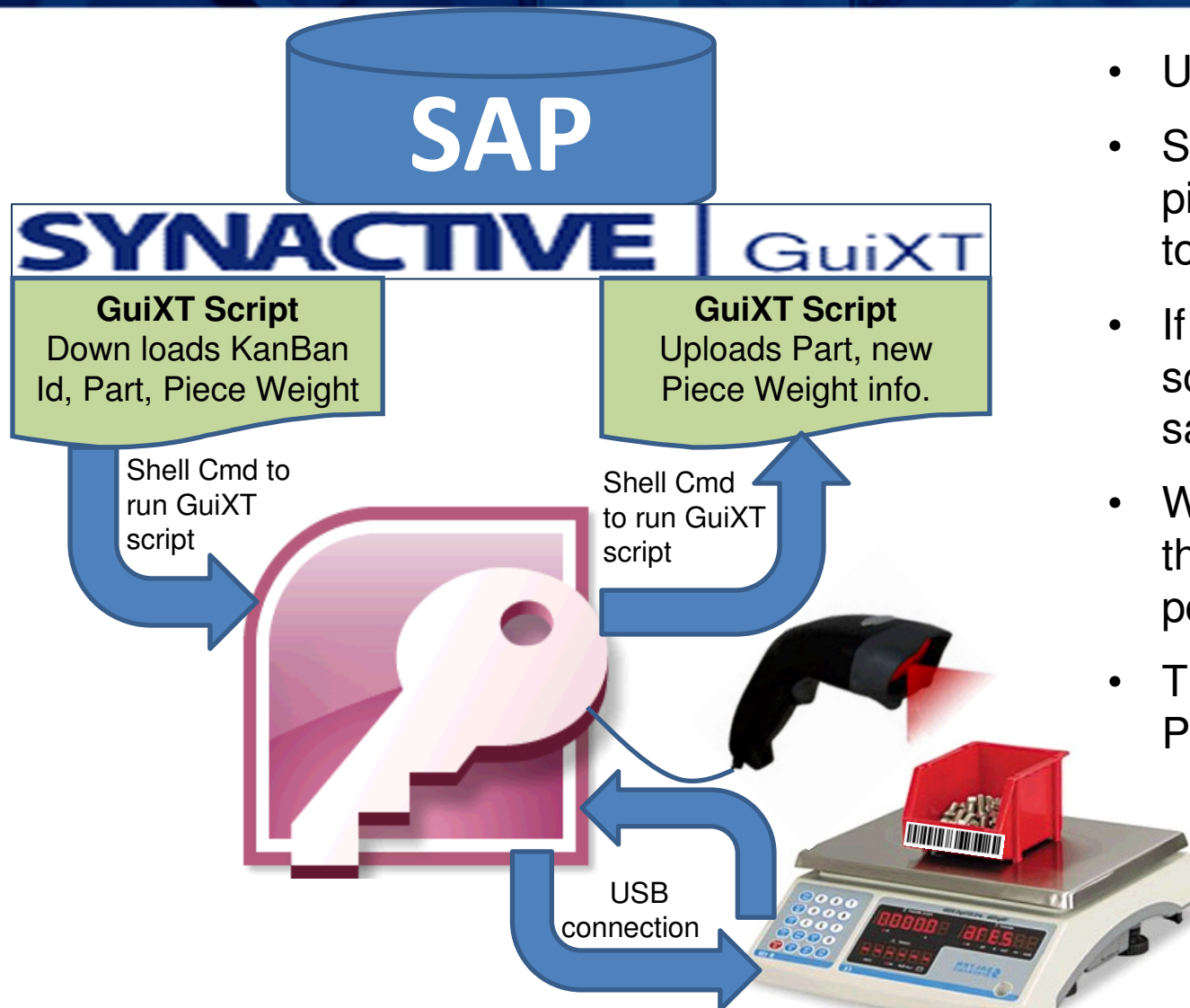
Enter "/nex"

Automation – Process the data

Typically use Microsoft Access with an auto-execute macro to:

- Pull in the text files down loaded from SAP.
- Clean them up.
- Perform any joins, calculations, processing
- Output to Excel
- Email using Google Mail
- Post on the internet using Google Drive

Interfaces – a typical one.

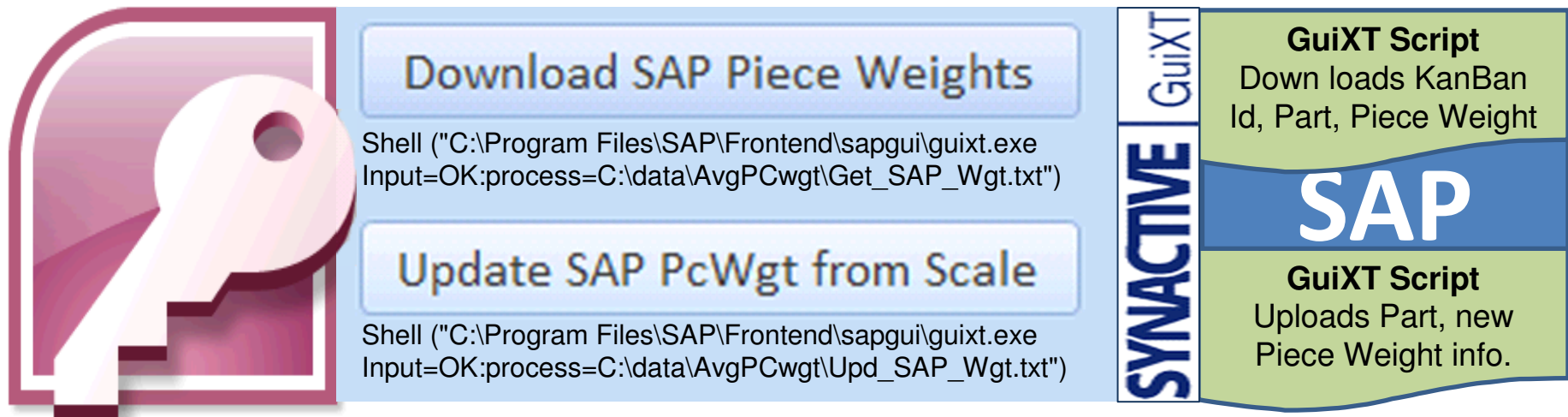


- User scans KanBan Id
- System looks up the parts piece weight and sends it to the scale.
- If there is no pc.wgt, the scale is set to do a sample.
- When the sample is done, the scale sends the pc.wgt to system.
- The system updates the Part's pc.wgt. in SAP .

Interfaces – How's it work?

Microsoft Access data base has a form with two buttons.

These buttons execute shell commands to run GuiXT scripts.



Download SAP Piece Weights
Shell ("C:\Program Files\SAP\Frontend\sapgui\guixt.exe
Input=OK:process=C:\data\AvgPCwgt\Get_SAP_Wgt.txt")

Update SAP PcWgt from Scale
Shell ("C:\Program Files\SAP\Frontend\sapgui\guixt.exe
Input=OK:process=C:\data\AvgPCwgt\Upd_SAP_Wgt.txt")

SYNACTIVE | GuiXT

GuiXT Script
Down loads KanBan
Id, Part, Piece Weight

SAP

GuiXT Script
Uploads Part, new
Piece Weight info.

Interfaces – How's it work?

```
// Access writes the updates to a text file and then runs this script
// SAP Easy Access
Screen SAPLSMTR_NAVIGATION.0100
Enter "/nMM02"
```

```
// set up files
Parameter UpFr_file "c:\junk\WgtUpdfile.txt" Delimiter=","
```

```
// open files
OpenFile "&[UpFr_file]"
```

label Read_File ←

```
// Read input file.
```

```
ReadFile "&[UpFr_file]" u_part u_gwgt u_nwgt u_wum
```

```
Message "Read &[u_part]" -StatusLine
```

```
// if end of the input file, close the files, and Quit
```

```
if not V[u_part]
```

```
Screen SAPLSMTR_NAVIGATION.0100
```

```
Enter "mm03"
```

```
CloseFile "&[UpFr_file]"
```

```
CloseFile "&[UpFr_Log_file]"
```

```
Return "Finished Updating"
```

```
Endif
```

```
// Change Material
Screen SAPLMGMM.0060
Set F[Material] &[u_part]
Enter
```

```
// Select View(s)
Screen SAPLMGMM.0070
Enter
```

```
// Change Material (2nd Screen)
Screen SAPLMGMM.4004
```

```
// Update New Material Values
```

```
Set F[Gross weight] &[u_gwgt]
```

```
Set F[Weight unit] &[u_wum]
```

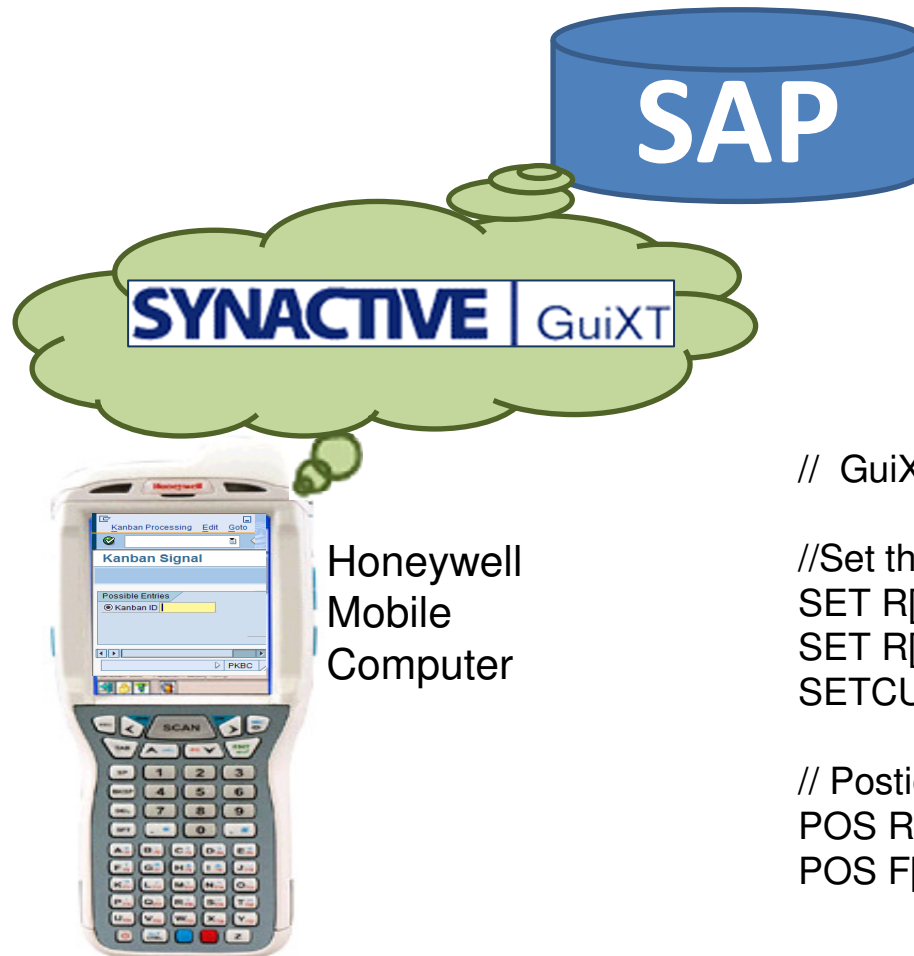
```
Set F[Net weight] &[u_nwgt]
```

```
Enter "/11" //SAVE
```

GOTO Read_File

Interfacing to a Mobile Device

- Material mover can go all over the production floor and scan the Kan Ban Bins empty.



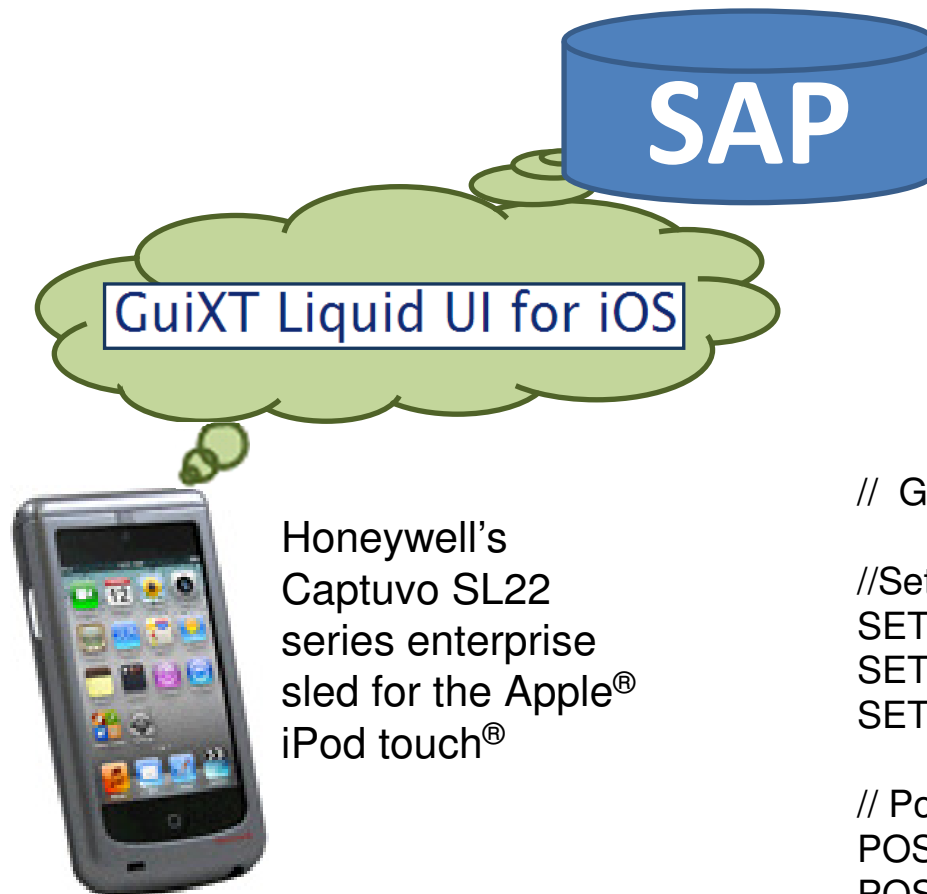
// GuiXT script for PKBC to move fields

```
//Set the default status
SET R[RMPKB-FLEER] "x"
SET R[RMPKB-PKINR] "X"
SETCURSOR F[RMPKB-PKKEY]
```

```
// Position the Kanban Id fields to the top Left
POS R[RMPKB-PKINR] (1,1)
POS F[RMPKB-PKKEY] (1,12)
```

Interfacing to an iPod Touch

- We're working on replacing the Mobile Computers with iPod's



Honeywell's
Captuvo SL22
series enterprise
sled for the Apple®
iPod touch®

- Liquid UI doesn't lose SAP connection.
- iPod is a fraction of the cost. It's lighter and has more functions. Email, imessage
- Honeywell SLED provides fast bar code reading, more rugged, security.

// GuiXT script for PKBC to move fields

```
//Set the default status
SET R[RMPKB-FLEER] "x"
SET R[RMPKB-PKINR] "X"
SETCURSOR F[RMPKB-PKKEY]
```

```
// Position the Kanban Id fields to the top Left
POS R[RMPKB-PKINR] (1,1)
POS F[RMPKB-PKKEY] (1,12)
```

Interfacing to an iPod Touch

I have PKBC running on the iPod touch.

Very cool, but I need smaller fingers :-)



How can we use GuiXT to make SAP easier?

- **Simple - Single screen transactions.**
 - Very easy to do and can cut transaction times in half
 - Great ROI's
- **Bar Code enabled** the SAP screens with GuiXT.
 - Increase transaction speed Ten fold with less errors.
 - Minimal investment.
- **Automation**
 - Great way to send management / supplier / operation reports
 - Schedule them to run at midnight.
 - In you inbox ready to process
- **Interfaces**
 - Connect iPod to SAP. How cool is that!
 - Interface SAP to PC hardware and PC Systems.

Upcoming Events

SAP-Centric EAM

Dates: March 4 - March 6, 2013

Location: Huntington Beach, CA, USA (Booth # TBD)

Synactive's Marathon Oil session

Topic: Improving Productivity and User Acceptance within SAP Plant Maintenance

To be held on: Monday, March 4th from 2:45pm-3:30pm



Stop by our booth or attend a technical or business session at any of the events above and learn more about our innovative products and solutions.

Registration and details at: <http://www.guixt.com/events/tradeshows.php>

THANK YOU!

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