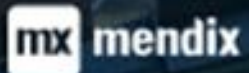
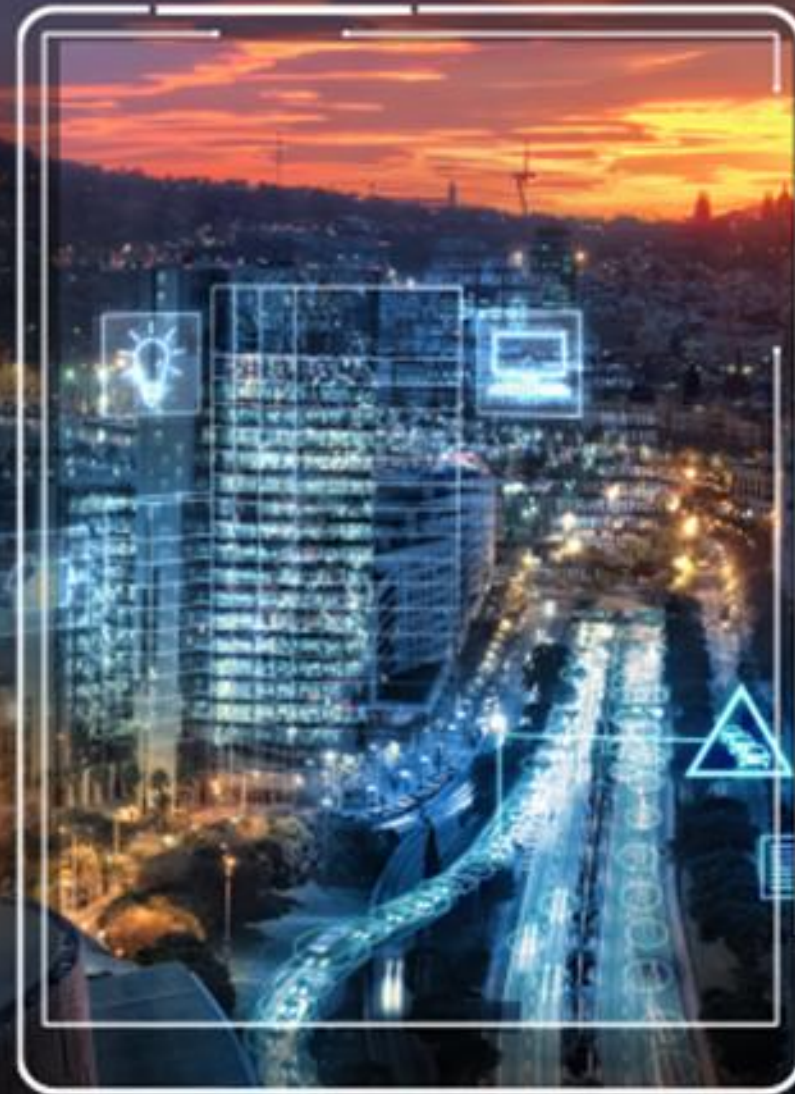




Mendix

Low code
for the Enterprise

Titan Consulting / Rapid App Werks





TITAN
CONSULTING

Established in 2001 by former SAP Executives, providing services to a customer base over 15 years of services and project implementations. Our SAP on-shore resources average over 20 years of experience across the SAP suite of solutions.

SAP Expertise covering the full lifecycle of managing enterprise applications

- New Projects
- Technical and Functional Upgrades
- Staff Augmentation
- Fractional Consulting
- Off-Shore/Near-Shore Development
- Application Managed Services (AMS)
- Fiori and Mobility Development



A Certified Partner



What we'll cover today

01

Introduction of Titan
Consulting/RapidAppWerks

02

What is Mendix

03

Modernize SAP with Mendix

04

Deployment Options

05

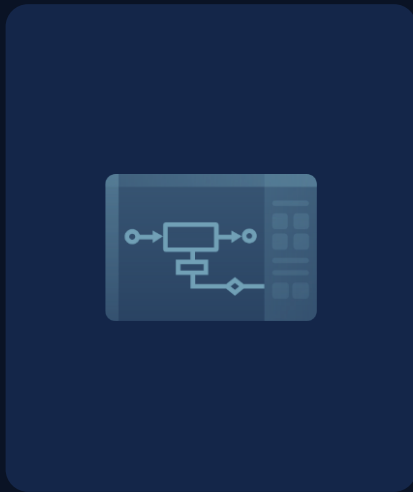
SAP/MX Use Cases

06

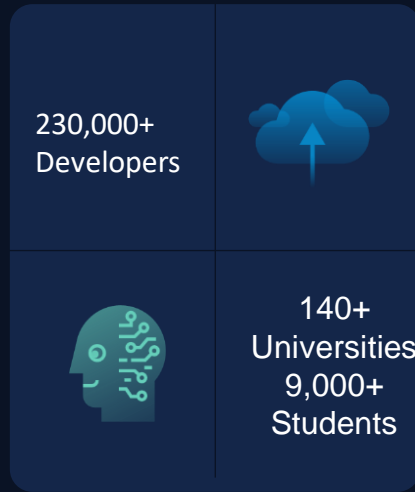
Questions



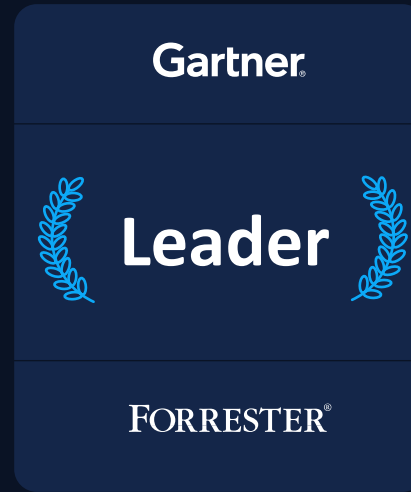
Mendix is the leading low-code platform for enterprise to create, integrate, deploy, manage and iterate modern business applications at scale.



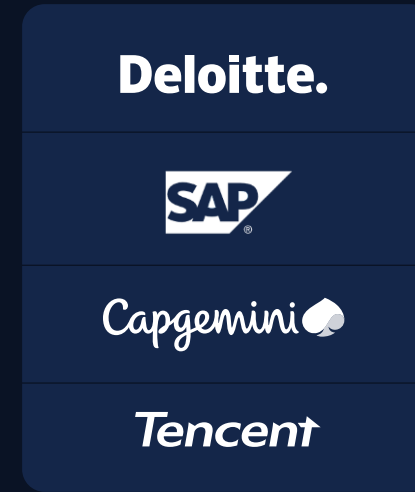
Visual modeling of logic, data, and UX



Large, established ecosystem of Mendix developers



Recognized Leader by analysts



200+ Strategic Partnerships



Strengthened by Siemens

The Landscape

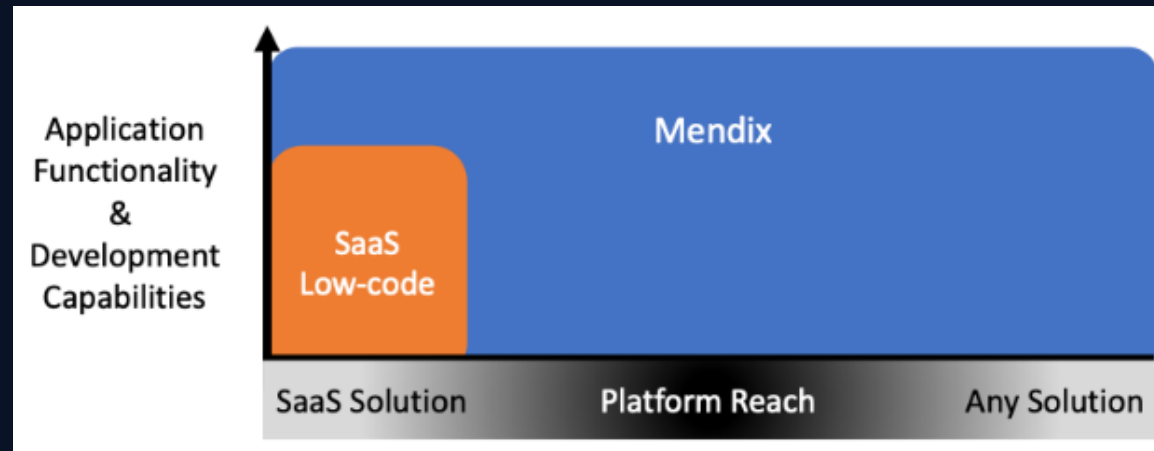
Developing in Mendix for any user, for a wide variety of interfaces, with complex logic, and a data layer.



Low code as a **Feature**







Low code as a **Platform**
(LCAP)



What you can do with Mendix





Digitalize customer experiences

-  SaaS applications
-  Onboarding
-  B2C mobile app
-  Self-service portals

“From idea to workable product that you can demonstrate to a customer in a fortnight, is unheard of. And we can do that.”

BARRINGTON CLARKE / DEVOPS LEAD /
ZURICH INSURANCE





Automate business processes

-  Complex budget approvals
-  Incident Management
-  Plant maintenance
-  Logistics/shipping management

“The services that we have built using Mendix have already processed millions of transactions per month.”

PRAKASH INBASEKARAN / ENTERPRISE ARCHITECT / DUBAI
MUNICIPALITY

Modernize core systems

-  Mobile SAP Supply Chain
-  Smart Warehousing
-  Work order management
-  Lotus notes refresh

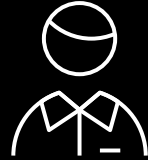
“Our 20-year old e-commerce solution had grown into a sizable monolith. To build a better application we needed better technology, so we brought Mendix in, which was fantastic for this kind of decomposition.”

MIROSLAV SAMOILENKO / DIRECTOR INTEGRATIONS
ARCHITECTURE / TRANE

The Mendix way



CITIZEN
DEVELOPER



BUSINESS
ANALYST



BUSINESS
ENGINEER

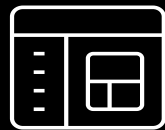


PROFESSIONAL
DEVELOPER

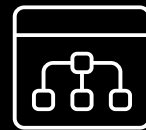
**Business
Agility**



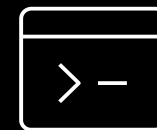
**IT
Control**



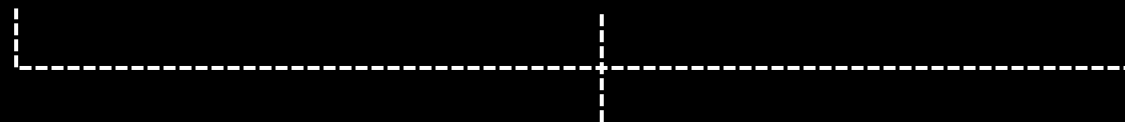
No code



Low-code



Code

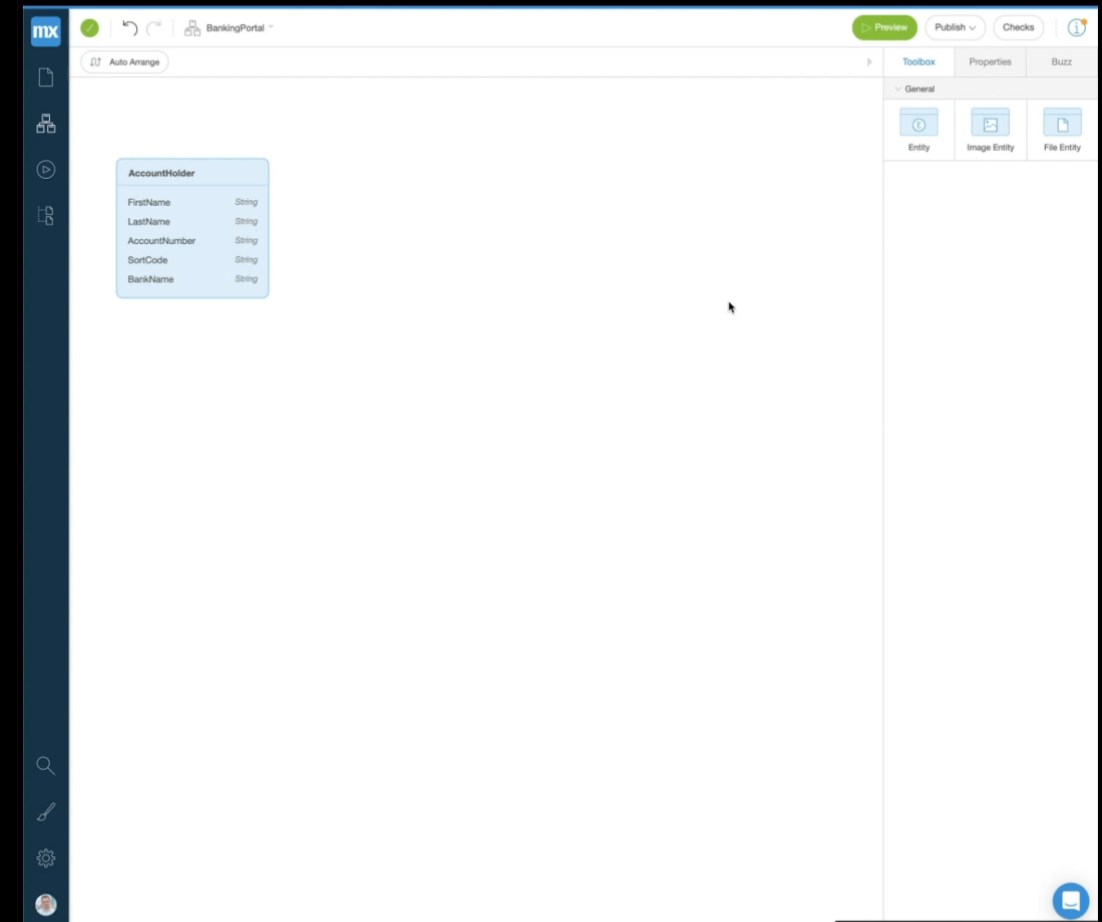


Low / No Code Development



BUILD APPLICATIONS 5-10X FASTER WITH 70% LESS RESOURCES

- Purpose built IDEs **designed for** Citizen and Pro Developers to work seamlessly together on a single app model
- Create engaging user experiences across any device with Visual, drag-and-drop, WYSIWYG IDE's
- Visually model logic with **Microflows** for complex logic, business processes and workflow with AI assisted development
- Collaborate with stakeholders across the entire platform
 - Share and comment of screens and logic
 - Pair program across the globe
 - Keep stakeholders informed and updated
 - Define and curate requirements
- Rapidly iterate with built in feedback, support for continuous integration development & deployment



Data Modeling

Deployment



Hybrid Cloud

- Leverage existing investment
- 1-click deployment
- Choose where each app is deployed
- Mendix apps in your own cluster for compliance, security or private connectivity needs - without managing your own CI/CD



Mendix Cloud

- Everything to host your Mendix apps at cloud scale. No DevOps team needed.
- Most optimized to run Mendix applications
- 1-click deployment
- Built in security and governance framework



On-premises

- Utilize existing infrastructure
- Migrate when ready, without rearchitecting
- Completely isolated from Mendix infrastructure. Complete control over deploying and managing your Mendix apps your way.

Multi-Cloud Portability

Build once, deploy anywhere

- Cloud portable out of the box
- Leverage existing investment
- (Virtual) Private Cloud or On-Premises

Future proof deployment strategy

- Deploy where you need to today
- Migrate without expensive re-architecting



Google Cloud





Extend & Differentiate the Core with SAP Cloud Platform RAD by Mendix

mx

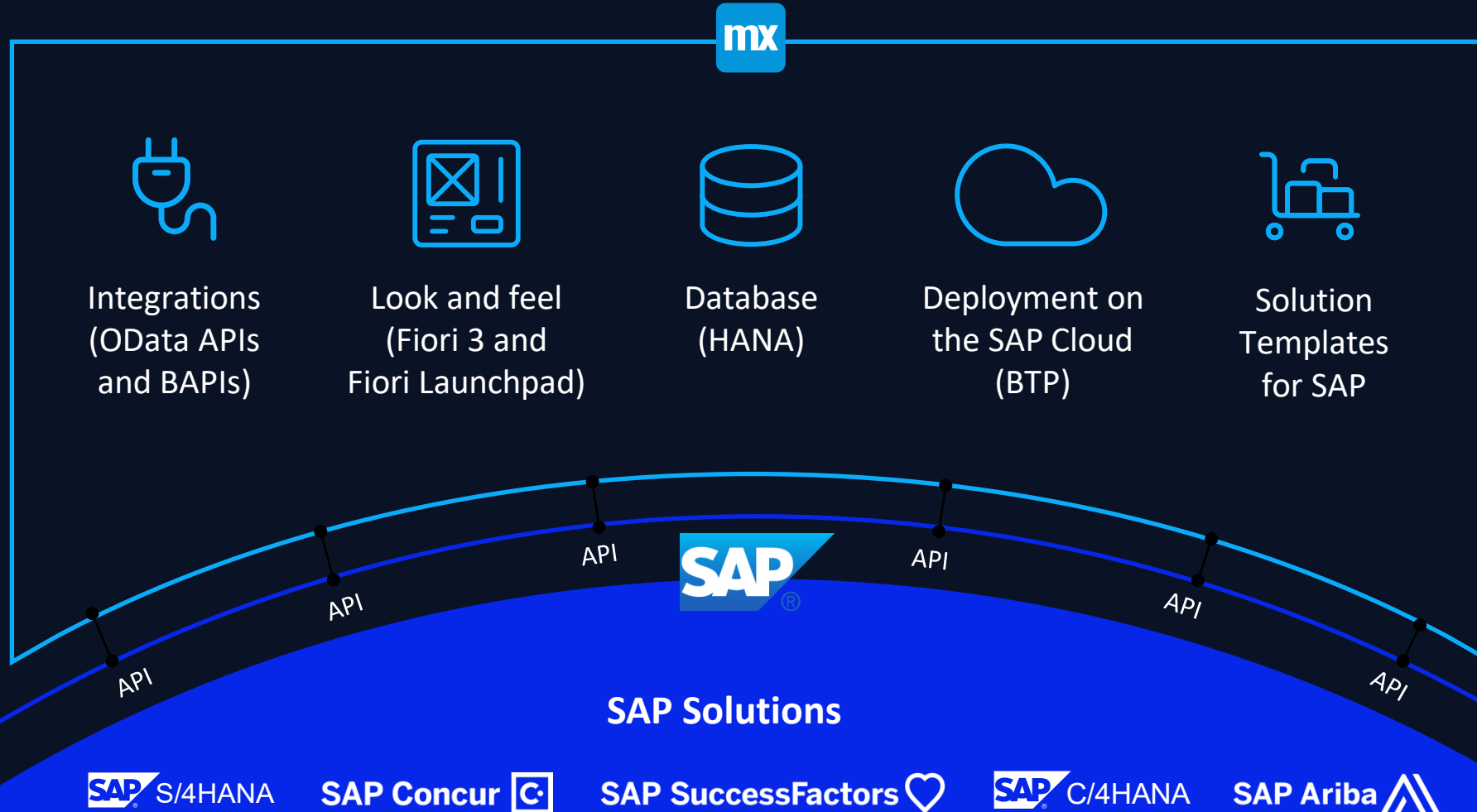
- ▶ Build applications the business needs 10x faster
- ▶ Keep the core “vanilla” with future proof extensions
- ▶ Leverage out-of-the box integrations with SAP ERP and LoB applications



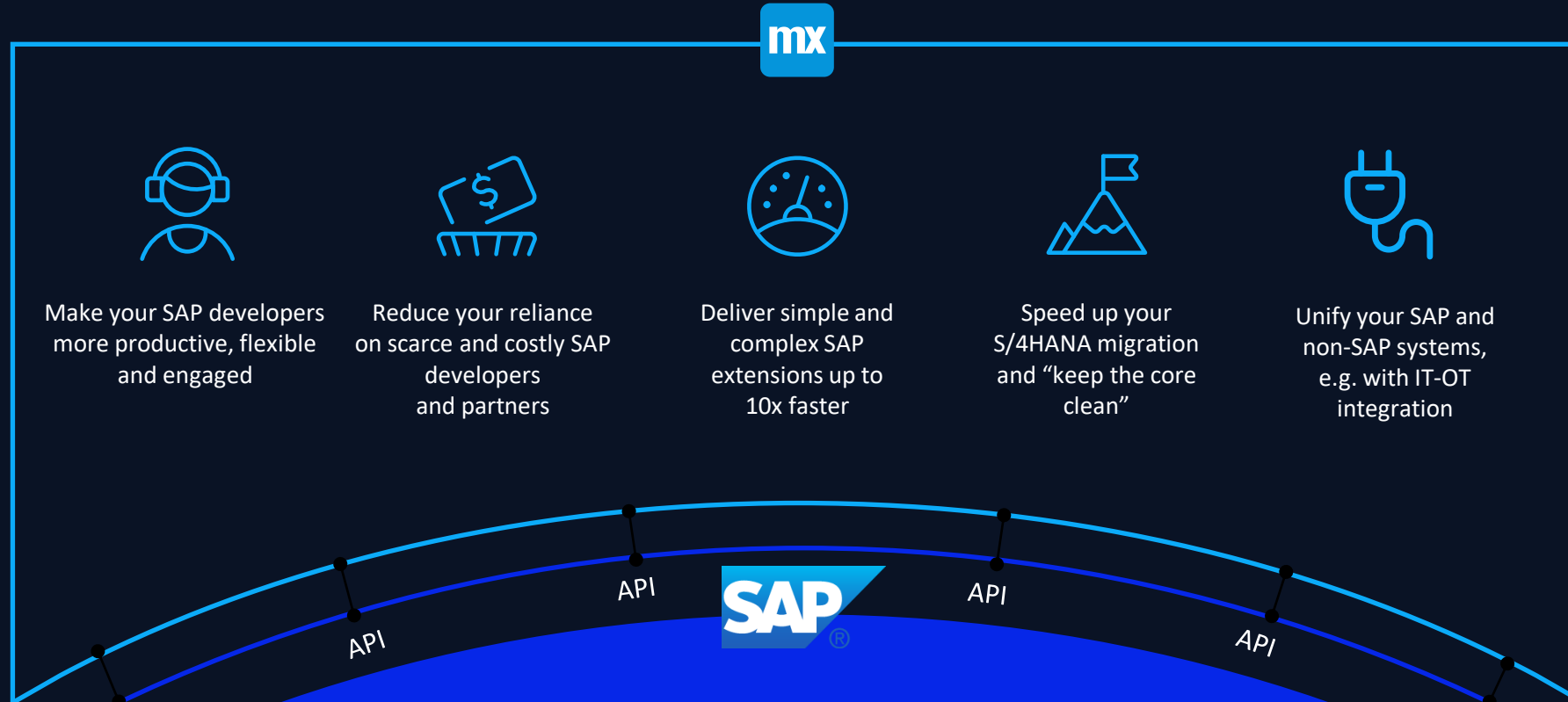
SAP Solutions



Run SAP even better with SAP Rapid Application Development by Mendix



Run SAP even better with SAP Rapid Application Development by Mendix



Make your SAP developers more productive, flexible and engaged

Reduce your reliance on scarce and costly SAP developers and partners

Deliver simple and complex SAP extensions up to 10x faster

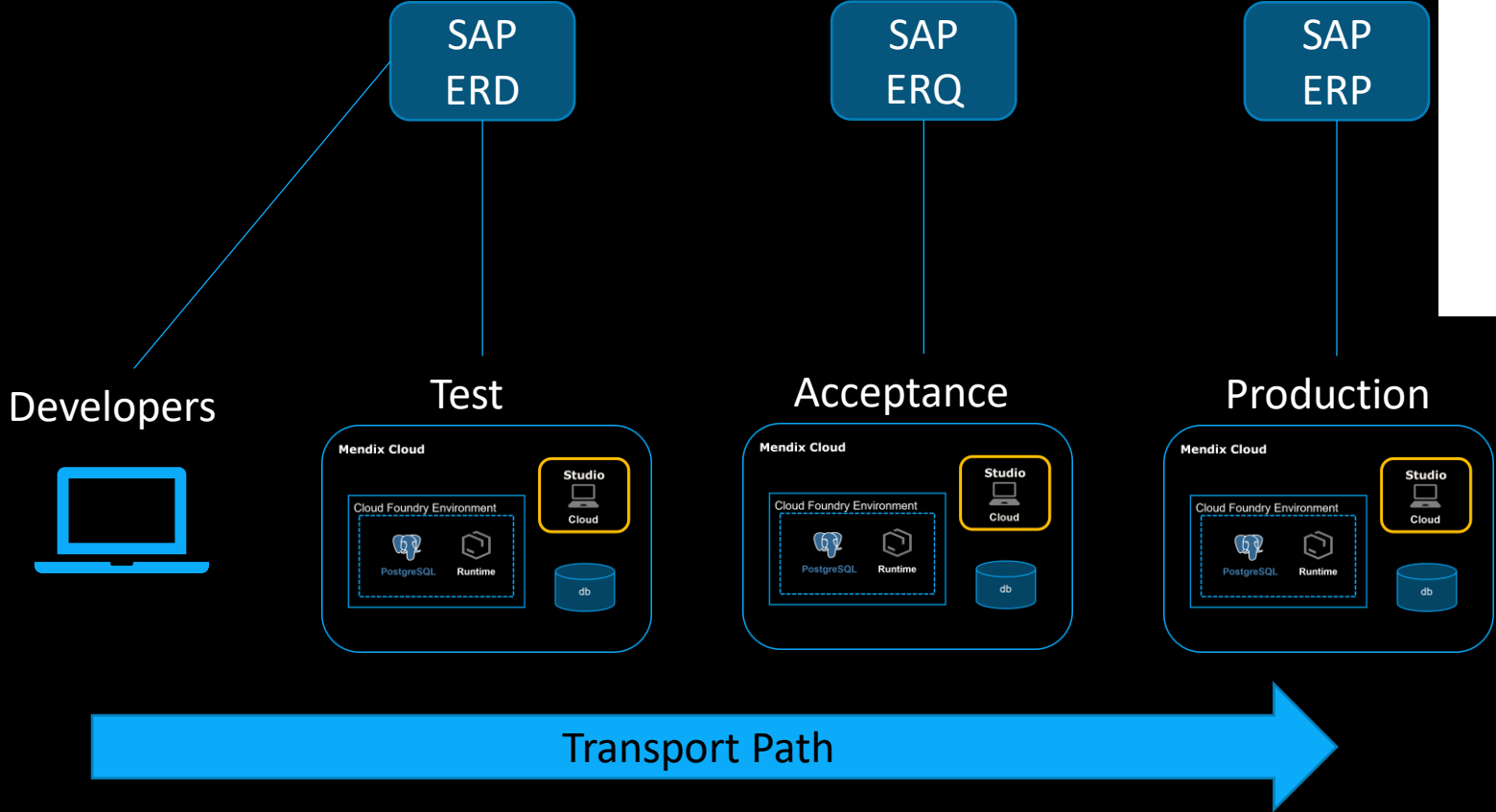
Speed up your S/4HANA migration and “keep the core clean”

Unify your SAP and non-SAP systems, e.g. with IT-OT integration

SAP Solutions



Mendix and SAP Landscape



COLLABORATE

- Project Buzz
- Stories
- Team
- Feedback
- Documents
- Team Server
- General Settings

DEPLOY

- Environments
- Metrics
- Logs
- Backups
- Alerts
- Mobile App

Environments

Deploy Custom Domains Access Restriction Profiles Permissions

Deployment Package Repository

Create Package From Teamserver Upload Delete

Deployment Package	Version	Date	Uploaded By	Expiry date
✓ Main line-0.0.1.45.mda	0.0.1.45	Mon, 11 Apr 2022	Mike McCane	
✓ Main line-0.0.1.43.mda	0.0.1.43	Wed, 02 Mar 2022	Mike McCane	
✓ Main line-0.0.1.41.mda	0.0.1.41	Wed, 09 Feb 2022	Mike McCane	

1 2 3

Environments

Test	Name: Main line-0.0.1.45.mda Version: 0.0.1.45 Runtime: 9.6.2.30227	Details	Transport to Acceptance
Acceptance	Name: Main line-0.0.1.3.mda Version: 0.0.1.3 Runtime: 8.18.1.13528	Details	Transport to Production
Production	Name: Main line-0.0.1.3.mda Version: 0.0.1.3 Runtime: 8.18.1.13528	Details	

Use Cases

Production Order Processing - SAP

- Simplified and streamlined Production Order Confirmation processing for operators at manufacturing plants.
- Combines several complex production order confirmation steps into a single pane of glass for users, reducing complexity, entry time, and training time for new users.
- Modern design that shows only the most essential information and uses clear visual indicators to guide the user through data entry while highlighting problems during entry.
- Integration with SAP for all data across several transactions (Sales, Deliveries, Shipments, Production Orders, Purchase Orders, Batch Management, Master Data)
- Workflow for Supervisor Approval
- Navigation direct from Mendix to SAP via SlipStream

PO: 111960647 Released 10PC 1,063.200LB SHT 5052 H32.190 X 48 X 120 0.19in X 48in X 120in +10.00/-10.00% Max Skid: 5,000 LB

CXR: JULIA SJODIN Ship-To: SMS FABRICATION INC Del Date: 2/6/2022 Zone: USLOS1-CY1 Country (IE)

0010 PUL: PULL FEEDSTOCK - RELEASED

Employee: C001449 Actual Time: 0.250 Final (selected) Delivery: 803457664

Ordered PC: 10 Ordered Wt: 1,063.200
 Issued PC: 10 Issued Wt: 1,063.2000
 Received PC: 0 Received Wt: 1,063.2000
 Balance PC: 10 Balance Wt: 0.0000

ORDER OUT OF BALANCE PC
 OUT OF DELIVERY TOLERANCE
 Request Approval

Input: 1 Batch: 0026565916 Pieces: 10 Material: 160002020 Weight: 1063.2000 Co. Of Melt/Origin: ZA /

Add Output

Type	Location	Pieces	Weight	Material	Heat
1 FINISHED			1,063.2000	160002020	23/03/162H7

PO: 111960647 Released 10PC 1,063.200LB SHT 5052 H32.190 X 48 X 120 0.19in X 48in X 120in +10.00/-10.00% Max Skid: 5,000 LB

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 Issued PC: 10 Issued Wt: 1,063.2000
 Received PC: 10 Received Wt: 1,063.2000
 Balance PC: 0 Balance Wt: 0.0000

ORDER BALANCED PC
 DELIVERY TOLERANCE - GOOD

MB1 425.28 LB MB2 637.92 LB

Input: 1 Batch: 0026565916 Pieces: 10 Material: 160002020 Weight: 1063.2000 Co. Of Melt/Origin: ZA /

Add Output

Type	Location	Pieces	Weight	Material	Heat
1 FINISHED	11BE	2	212.6400	160002020	23/03/162H7
2 FINISHED	11BE	2	212.6400	160002020	23/03/162H7
3 FINISHED	11BE	2	212.6400	160002020	23/03/162H7
4 FINISHED	11BE	2	212.6400	160002020	23/03/162H7
5 FINISHED	11BE	2	212.6400	160002020	23/03/162H7

Sales Order Tracking and Visibility - SAP

- Sales tracking application providing Sales, Manufacturing, Supply Chain and Customer Service with full visibility in order processing
- Combines several SAP transactions into a single pane of glass for users, reducing complexity and increasing time to service
- Notifications and alerting to provide users with exception-based capability to resolve issues
- Ability to comment and notify users of issues
- Integration with SAP for all data across several transactions (Sales, Production Orders, Inventory, Purchases, Credit..)
- Navigation direct from Mendix to SAP via SlipStream

ORDERAWARE DASHBOARD

14757535 for Fiori Demo

Search Filter Options My Filters

Customer Order Item

Order (11) Availability (0) Credit Check (0) Fulfillment (3) Delivery (8) Invoice (0)

ORDER ITEMS STATUS	TYPE	CUSTOMER	ORDER	PROD ORDER	SALES REP	SOURCE - SHIPPING	CONFIRMED DATE	MATERIAL	QUANTITY
Delivery	General Line		14764085 - 20	111957766		1046 - 1046	2/10/2022 ATP Override 5/3/2021	100000517 - BEAM A992/A572 GR50 W4 X13.0 X 240	4.00 PC
Delivery	IPO		14764190 - 10	111957939		4089 - 1046	2/8/2022 ATP Override 5/13/2021	160009895 - SHT 304 2B 11GA X 48 X 96	10.00 PC
Delivery	General Line		14764190 - 20			1046 - 1046	ATP Override 5/13/2021	160003229 - RD CF 1045 TGP 1.25 X 240	4.00 PC
REJECTED									
Delivery	IPO		14766493 - 10	111962273		1007 - 1021	2/15/2022	160009895 - SHT 304 2B 11GA X 48 X 96	1.00 PC

ORDER: 14766572-10

ORDER: 14766572-10
CUSTOMER
SHIP-TO: 1C
SALES REP:
MATERIAL: 160009400 COIL 304 2B 11GA X 48

CONFIRMED DATE
3/2/2022
ATP OVERRIDE DATE
3/2/2022

OVERALL STATUS
ASSB/CREDIT BLOCK
TYPE
IPO

SALES OFFICE: 1007 SOURCE PLANT: 4058 SHIPPING PLANT: 1021 DEKALB TOTAL ORDER WEIGHT: 1,058.40 LB

Order 2/15/2022 Availability 2/15/2022 Credit Check Fulfillment Delivery Invoice

FULFILLMENT
PRODUCTION ORDERS (1)

NOT WORKED	111962458 PRODUCTION ORDER	160009400 MATERIAL	1,058.00 LB QUANTITY	0 MISSOUT COUNT
OPERATIONS				

4058 PUL: Pull Feedstock 0010 NOT WORKED START Planned: 2/24/2022 FINISH Actual: 2/24/2022

4058 CT2: Setup 0020 NOT WORKED START Planned: 2/24/2022 FINISH Actual: 2/24/2022

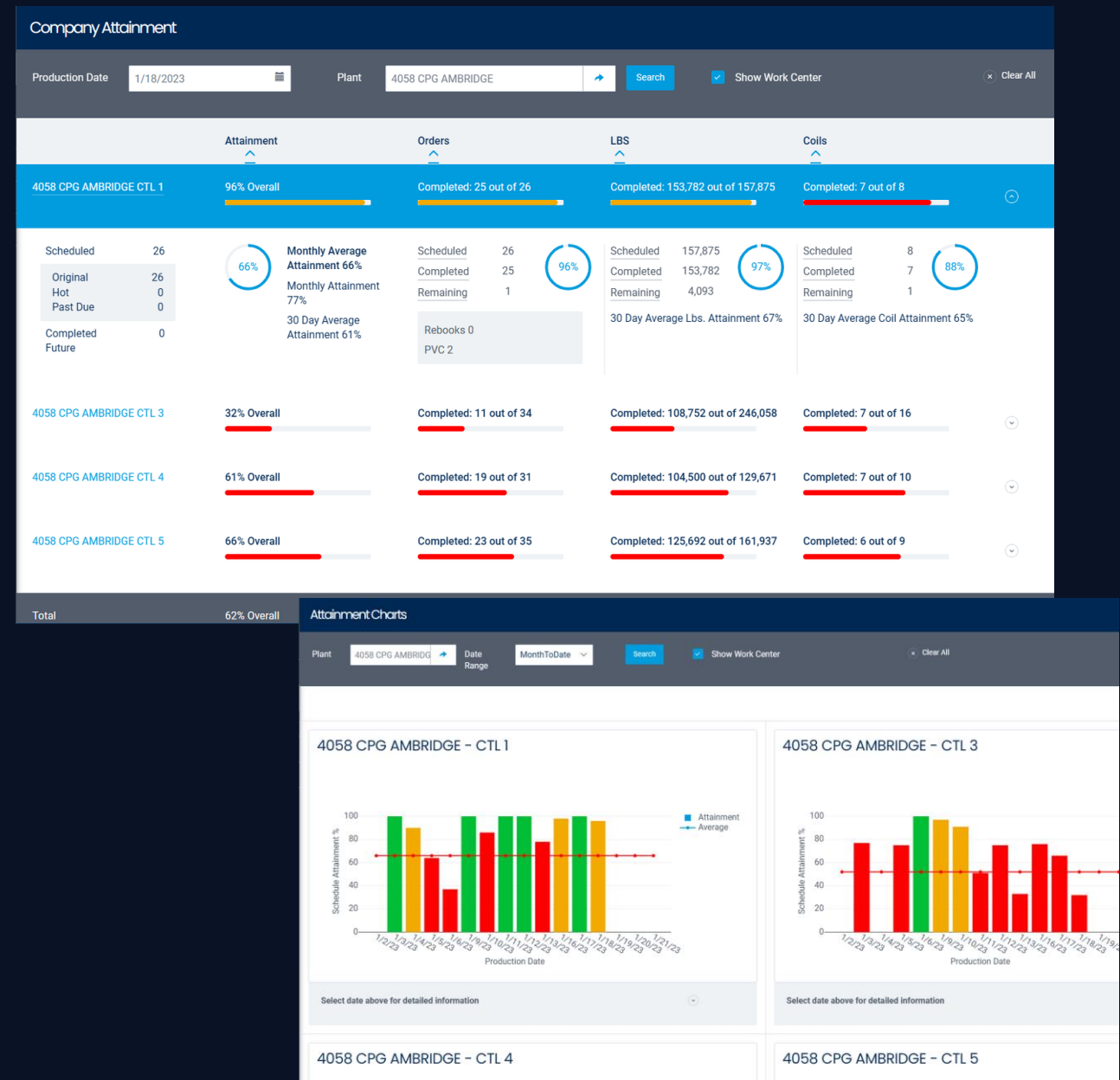
4058 CT2: Standard Cutting 0030 NOT WORKED START Planned: 2/24/2022 FINISH Actual: 2/24/2022

4058 CT2: Packaging 0040 NOT WORKED START Planned: 2/24/2022 FINISH Actual: 2/24/2022

4058 SCH: In Transit Schedule: T, T 0050 NOT WORKED START Planned: 2/24/2022 FINISH Actual: 2/24/2022

Schedule Visibility - SAP

- Simplified and streamlined Production Order schedule visibility for Operators, Supervisors and Production Schedulers at manufacturing plants.
- Modern design that shows streamlined scheduling and manufacturing performance metrics
- Combines several SAP transactions into a single pain of glass for users, reducing complexity and increasing time to service
- Notifications and alerting to provide users with exception-based capability to resolve Scheduling issues
- Plant Operations Reporting to view scheduling conflicts/Order Issues



Configure, Price Quote - CPQ

- Replaced excel based quote process
- Standardized quoting process across the department for all product types
- Provided a common data structure for all quotes to allow for more accurate pricing
- Leveraged external pricing for market data
- Reduced the quote process from 2 weeks to 2 days

Carbon Quote Setup: 3 Part Setup
Jeld-Wen 2022-01-31

Weight UoM: LBS Length/Width: IN Currency: USD

Quote Header Part Upload **Part Setup** Product Specs Mills Processing Final Pricing Financial Summary

Validations (0) Base Price Mechanism: HEDGE May-22 Account Owner: McCane, Mike Sales Office

Jeld-Wen

+ Add Items Upload Select All Deselect All Delete Mass Update

Quote Items

Item	Cust. Part No.	Ship-To Location	Product Form	Product Type	Min/Nom	Thickness	Fin. Width	Length	Grade	Coating	Paint Code	RFQ Weight
90630	90630	Sulphur Spr	Coil	CR GALV	Minimum	0.0190	36.250	1,000	DDS	G30	PMW7887BW	4,200,000
91949	91949	Sulphur Spr	Coil	CR GALV	Minimum	0.0172	35.250	1,000	CSB	G30	PMW7887BW	1,300,000

Carbon Quote Setup: CoilSmart
Jeld-Wen 2022-01-31

Weight UoM: LBS Length/Width: IN Currency: USD

Master Coils

36.250 CR GALV DDS 0.0191 71.000 CR GALV CSB 0.0172

Jeld-Wen Sulphur Springs

Product Groupings

Part	Product Form	Finished Width	RFQ Quantity
90630	Coil	36.2500	4,200,000
91949	Coil	35.2500	1,300,000

Master Coil: 71.000 CR GALV CSB 0.0172

Location: Jeld-Wen Sulphur Springs Max Coil Weight: 16,000

Master Coil Weight Max: 42,000 Edge Drop: 0.50 Kerf: 0.00

Master Coil Detail

Part	Mults	Breaks	Finished Width	Finished Coil Weight	Finished Coils	Total Finished Weight	PIW
91949	2	2	35.2500	7,000	6	42,000	199

Total Finished Coils: 6 Width Used: 70.5000 Total Finished Coil: 41,704 Master Coil Width: 71.0000 Scrap Percentage: 0.007

Carbon Quote Setup: Transport Smart
Jeld-Wen 2022-01-31

Weight UoM: LBS Length/Width: IN Currency: USD

Supply Chain Scenarios

BRS Ocoosa, Nucor Armoral, Jeld-Wen Sulphur Springs Weight: 5,500,000 LBS Miles: 467 Freight: \$2,700.00 Freight Cost (CWT): \$6.00

Sequence	Include in Pricing	From	To	Mileage	Mode of Transport	Freight (USD)	Freight Cost (CWT)
1	<input checked="" type="checkbox"/>			33	Flatbed Truck	200.00	\$0.44
2	<input checked="" type="checkbox"/>			434	Flatbed Truck	2,500.00	\$5.56

Map Satellite

QM Notification Application

- Customer service application to create Quality Notifications
- Integrated with SAP QM
- Delivery Search by Batch, Roll, Lane
- One step to create an SAP QM, Sales Return, Credit Order and outbound letter
- Attach documents, emails and pictures to link with SAP
- Simplifies the QM creation process to a single screen simplifying data entry and reducing errors

The screenshot displays the 'QM Notification' application interface. The main form is titled 'MX Notification: 41' and is in 'Draft' status. It includes several sections for data entry:

- Order Type:** Radio buttons for Credit, Return, and Neither.
- Defect:** A text input field with a search icon.
- Malfuction Date:** A date input field with a calendar icon.
- Customer Name:** A text input field.
- Customer Defect Description:** A text input field.
- Batch with leading zeroes, Roll/Carton, Roll Lane:** Three text input fields with a search icon.
- Complaint Quantity:** A text input field.
- Customer Complaint Number:** A text input field.
- Samples sent?:** Radio buttons for Yes and No.
- Can customer scrap at location?:** Radio buttons for Yes and No.
- Pictures attached?:** Radio buttons for Yes and No.
- Roll/Carton Number:** A text input field.

At the bottom of the form are buttons for 'Partners', 'Attachments', and 'QM Webform Comments', along with 'Save Draft', 'Submit', and 'Close' buttons.

On the right side, there is a 'SAP Notification' section with fields for Ship To, Material, Reference Qty, Sales Order, Delivery, Billing Document, Sales Org, Distribution Channel, Division, and Plant. Below this is a 'Description' field and a 'Notification Comments' field with the text 'No Roll/Carton'. At the bottom right of this section, it says 'Created By: McCane, Mike' and 'Created On: 3/3/2022, 1:21 PM'.

An 'Attachments' modal is open in the foreground, showing a list of files:

Attachment	Created	Size	Action
Amcor PPT Template.pptx	3/3/2022, 2:48 PM	476294 MB	Delete
Amcor.msg	3/3/2022, 2:48 PM	156160 MB	Delete
Meat-Fish-Seafood-THUMBNAIL.jpg	3/3/2022, 4:06 PM	26491 MB	Delete

The modal also includes a 'Close' button at the bottom.

Thank you!



Kent Lamb: kent@titanconsulting.net



Sean Hardy: sean.hardy@rapidappwerks.com

