

Who We Are?

- We are IT Services Provider. We specialized in ERP implementation, integration, customization and postimplementation Support.
- We also cater Industrial IoT solutions in association with Tech-Metro.
- We specialized in acquiring data from any machine and integrate it with your ERP, HRMS or Custom System (Excel).
- We also offers various data adapters and innovative solutions to Enterprises for improving machine availability and OEE, Energy Utilization.











What We Provide?



We offer instant and scalable solution to improve the machine, operator and plant productivity. Our solution also help to improve the energy consumption.

Our solution target following pain areas:



Poor Visibility on Shop floor



Manual Data Collection



Inaccurate and unreliable data



Person Specific Process



Night shift production issues



High energy consumption



Machine fail alarms



Get the data from additional sensors



Investment made on the IT infrastructure

Our Solution











Legacy machines / relays

Energy meter

IEBS' Data

Augmentation

Modules

Tech-Metro's Data Acquisition Adapter Modules



Inspection / QA



Temperature



Pressure



Flow meter

IIOT Platforms

E R

HRM Software

Key Benefits





Improve machine availability and OEE



Identify and act on the causes of downtime



Identify the operator's training needs



Prevent feed/spindle override misuse



Performance evaluation of machine



Use of the existing infrastructure



Seamless integration with homegrown IT systems like ERP

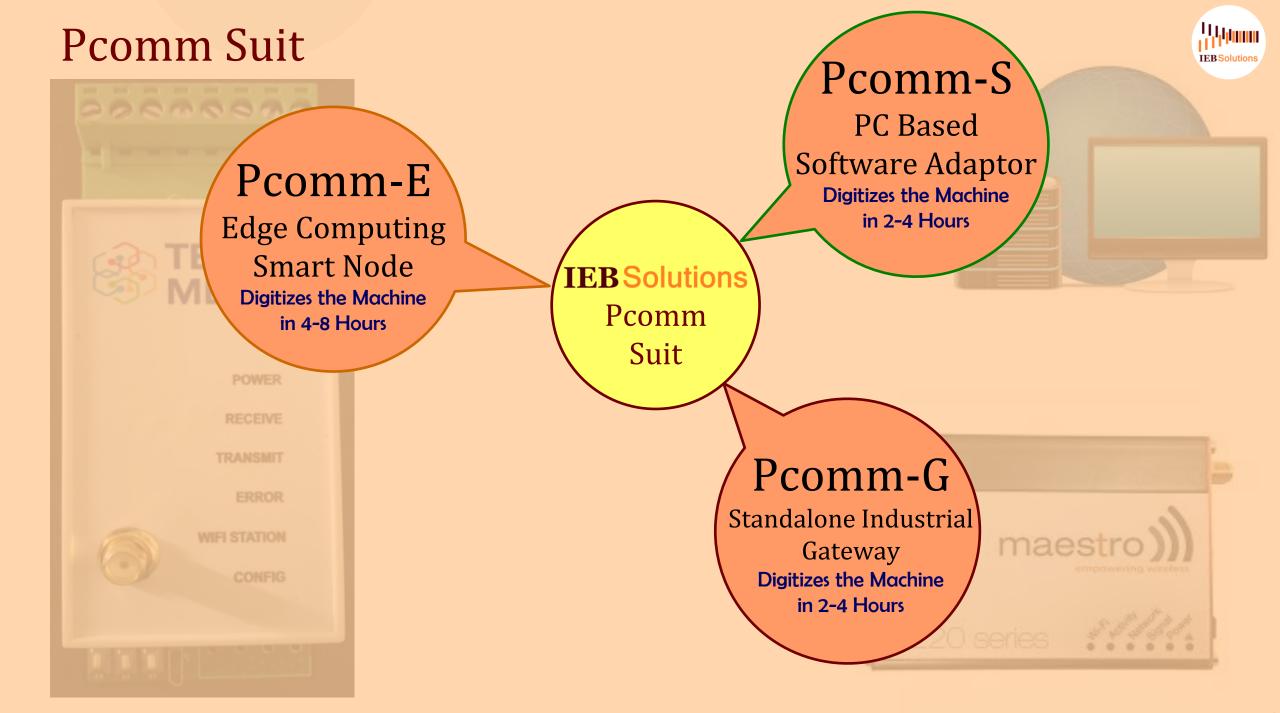
Use Case Distribution











Pcomm-E Edge Computing Smart Node



maestr



- Digitize legacy machines within minutes
- Smart Edge Computing Device
- Data In Information Out
- Characterize device behaviour through Setup Wizard

Highlights:

- Predefined behaviours and configurations
- RS232, RS485 simultaneous interfaces
- Up to 4 digital inputs or 4 analog inputs
- Wireless protocols https, UDP, MQTT
- Data Security TLS 1.2 and SHA 256
- Data rate supported as fast as 500ms (2Hz)
- Ideal form factor 105mm x 45mm x 40mm

Pcomm-E Configurations - Device Selection Screen

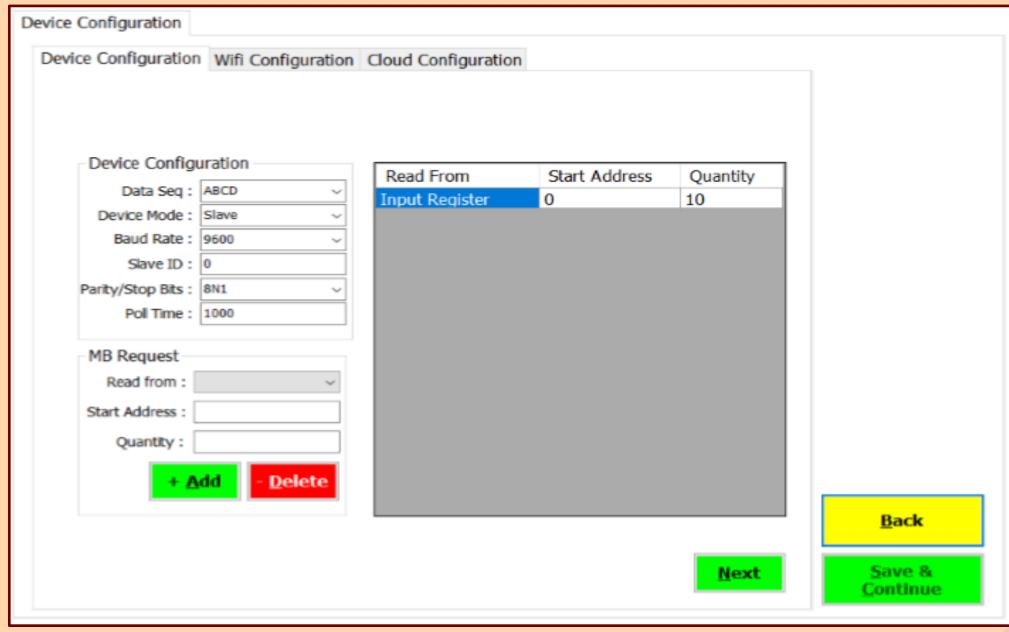


(You can Select the Device to be configured Device/Wi-Fi/Cloud)

Device Configuration					
Device Configuration	n Wifi Configuration	Cloud Configuration			
Device Config	uration	Dond From	Chart Addrson	Overtite.	
Data Seq :	ABCD ~	Read From Input Register	Start Address 0	Quantity 10	
Device Mode :	Slave ~	Input Register	· ·	10	
Baud Rate :	9600 ~				
Slave ID:	0				
Parity/Stop Bits:	8N1 v				
Poll Time :	1000				
MB Request					
Read from :	~				
Start Address:					
Quantity:					
+ /	dd - <u>D</u> elete				
					<u>B</u> ack
					Cause 9
				<u>N</u> ext	Save & Continue

Pcomm-E Configurations - Device Configuration Screen

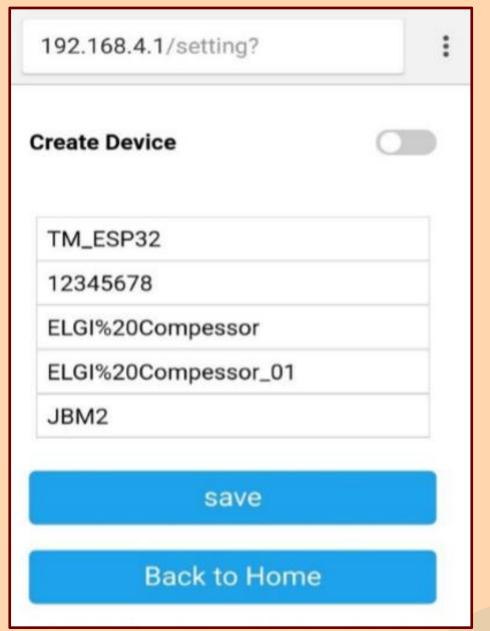




PComm-E Configurations - Device Configuration Screen







PComm-E Configurations - Cloud Configuration Screen



Cloud Configuration				Timer Configuration		
DB N	lame : Forger	max_contro	llers	De-Bounce Timer :	100	
Machine N	ame : Machin	ne1		Cycle Time :	10000	
Device N	lame : Device	1		Load-Unload Time :	5000	
	☑ Cre	ate Device	?	Part No. :	100	
	☑ Ena	able Produ	ction Data ?			
Parameter Co	onfiguration	1				
Parameter N						
	Unit :					
Multiplication Fa	actor: 1					
	200					
Data 1	Type:		~			
Data	Type :		~			
Data 1		Add	- <u>D</u> elete			
Data 1		Add	- <u>D</u> elete		□ Enable Uttor 2	
	+				☐ Enable Https ?	
Enabled ?	+ /	Unit	- Delete Scale Factor	Туре	☐ Enable Https ?	
Enabled ?	+			Type U16	☐ Enable Https ?	
Enabled ?	+ /	Unit	Scale Factor		☐ Enable Https ?	
Enabled ?	+ /	Unit	Scale Factor		☐ Enable Https ?	
Enabled ?	+ /	Unit	Scale Factor		☐ Enable Https ?	<u>B</u> ack

PComm-S PC Based Adapter



Data Sources supported

- Controllers
 - ✓ Fanuc 0i, 16i, 18i, 31i
 - ✓ Siemens
 - S7 200, 300, 400, 1200, 1500
 - 828D, 840D
 - Simotion
 - ✓ Allen Bradly Micrologix series
 - ✓ Mitsubishi
 - ✓ Delta
- > HMIs Koyo, Mitsubishi, Delta
- Drives
- > Energy Meters
- > Sensors
- > Embedded Controllers

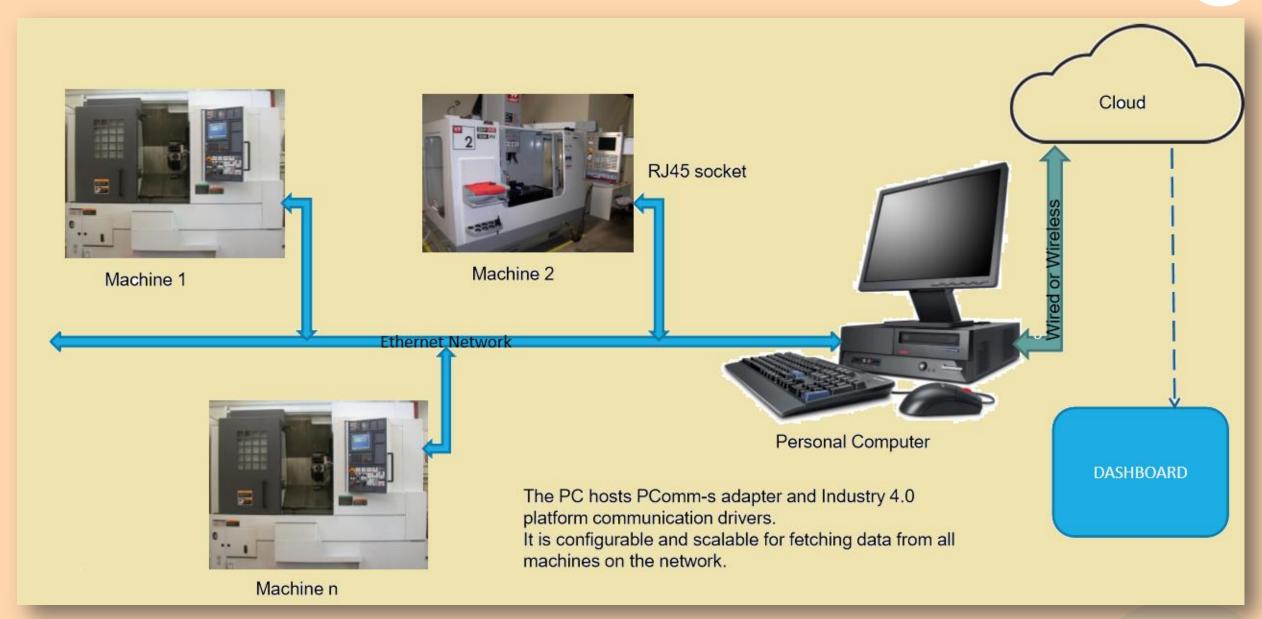
Protocols Supported

- > Focas
- > Ethernet
- > Profinet
- > Profibus
- > Modbus RTU
 - ✓ RTU RS485, RS232
 - ✓ TCP
- > Ethernet/IP
- > OPC UA
- > MTConnect

80% Machine Coverage

PComm-S PC Based Adapter









Highlights:

- LAN / WAN / WMAN
- GSM 3G Fall-back over 2G
- RS485 Modbus RTU
- 2 GPIO
- OpenVPN
- Load Balancing
- Configuration Scalability



- Standalone Gateway for Smart Machines
- Edge Computing Application





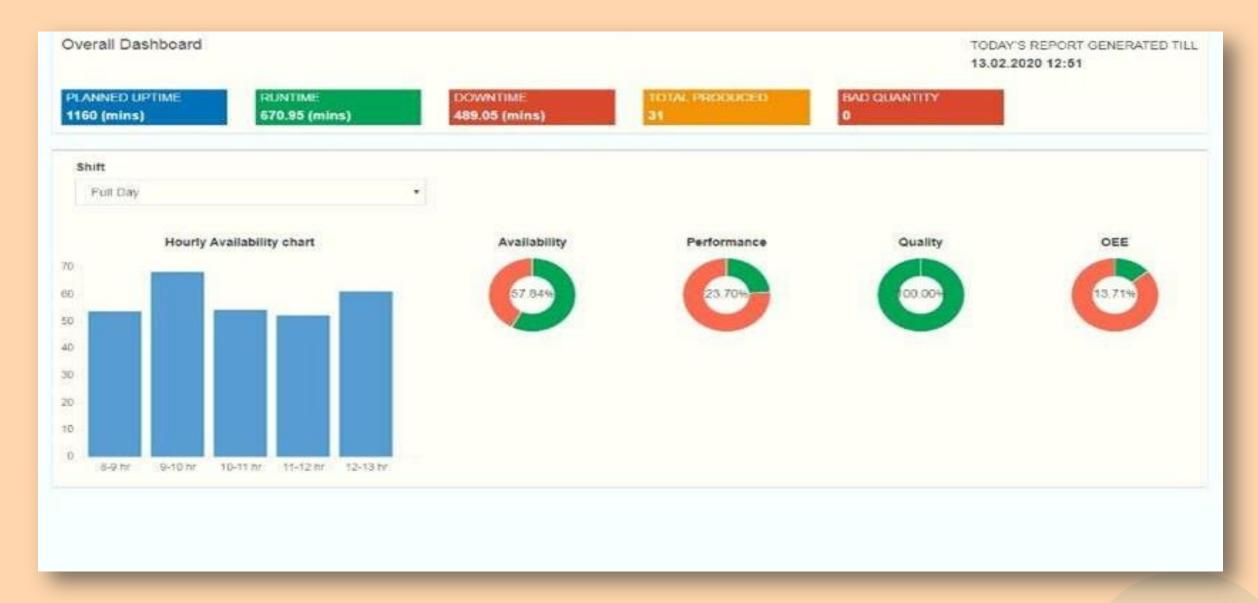






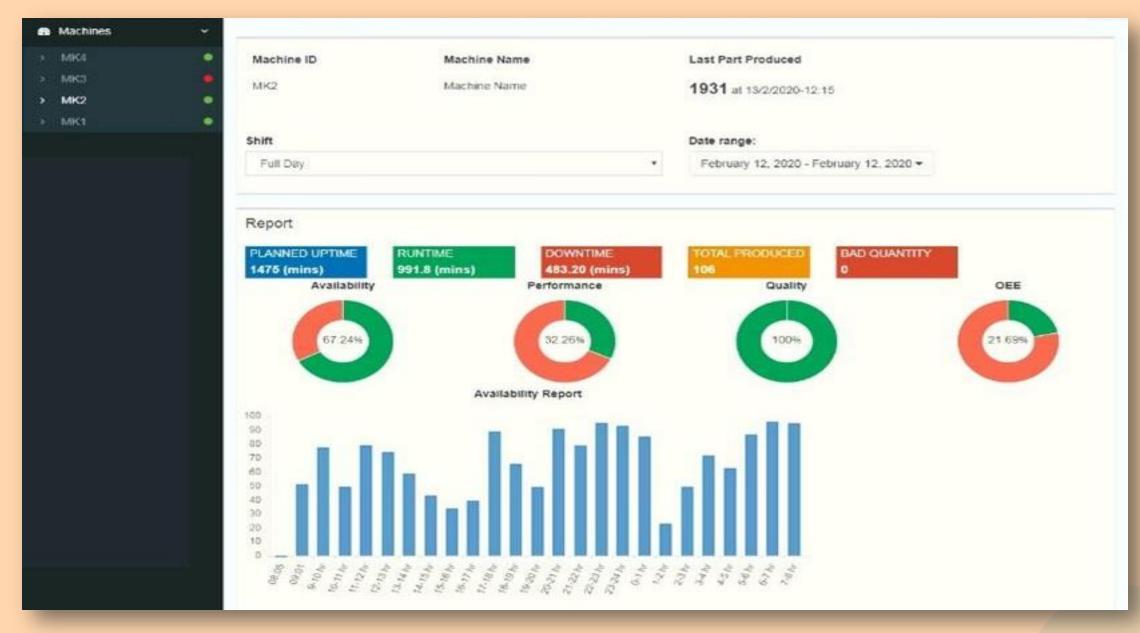


Overall Dashboard of the Application





Machine wise Dashboard





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