Passport		
Equipment A		
	Passport	
	Equipment A	

Smart Equipment Passport (SEP)

Analysics + AI for Engineering Management



The process industry needs Advanced Analytics & Artificial Intelligence to manage changing environments and increase efficiency



CODC

SEP is the Data Analytics and AI extension for the EAM tool landscape, integrated to the BTP and SAC or On-premises







Collect all data from various sources to create trustful digital identities for equipment



Transform old technical drawings into digital engineering and documentation



Detect issues during engineering and project phases



Semi-automate data hand-over between engineering, construction and maintenance



Advanced Analytics

SEP is using several different tools, from analytics to AI, to load data from all available sources that describe equipment. This data is then used to create a single, accurate record for each piece of equipment.

Passport	
Equipment A	
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SAP integrated

Information can be extracted and integrated from various SAP systems. Additionally, data from engineering, external suppliers and other internal apps can be quickly loaded and integrated.







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Machine Learning to generate a Digital Identity

SEP can use several different data sources to automatically generate a single data record for an equipment with a precision of >97%, using internal and external information on FLOC, equipment and inspection schedule granularity.

Digital Platform for internal and external access

SEP is a digital platform that can be used by internal and external stakeholders. Access and rights management can be managed inside the existing authentication providers and configured in SEP. The validation tool allows humanmachine interaction to validate master data and inspection schedules.







Machine Learning to transform technical drawings into data

SEP can understand technical drawings like P&IDs and extracts different equipment types and their naming. Based on this information, tags can be mapped to FLOCs with a precision of ~99%. SEP generates powerful spreadsheets and DEXPI XML files, containing all relevant master data and issues.

Data Governance for SAP master data, technical drawings and COMOS and AVEVA

SEP can contextualize all relevant data sources to create a single-point-of-truth. This information can be used to generate missing data, correct existing data and enable the setup of Digital Twins.











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Collect all data from various sources to create trustful digital identities for equipment



Transform old technical drawings into digital engineering and documentation





Semi-automate data hand-over between engineering, construction and maintenance



Digital Platform for internal and external access, barcode enabled

SEP is a digital platform that can be used by internal and external stakeholders. Access and rights management can be managed inside the existing authentication providers and configured in SEP.

2D barcodes can be used to link the equipment to the equipment passport.

Workflow tracking

SEP allows users to track status and position of equipment during a Turn Around. In the same time, inspection and maintenance during daily business is supported and transformed into a process management environment.







Material tracking for greater transparency throughout the lifecycle

SEP helps you find your equipment faster and more reliably, all based on 2D barcodes. SEP also supports the use of LoRaWAN GPS trackers and RFID for even more accurate tracking.

Workflow tracking

SEP allows users to track the status and position of equipment during all activities. The Status can be customized to your needs. Ensuring a more efficient communication.



Turnaround Tracking

SEP helps reduce your turnaround time by providing easy to use advanced status tracking. Users can access the data from anywhere.

Compatibility of the Turnaround Tracking

The tool is fully compatible with Roser and other formats, allowing data to be imported and exported quickly and easily.





Smart Equipment Passport (SEP) creates digital identities for material & equipment by aggregating data from multiple sources..

1. 2D code or RFID tag is attached to the material/equipment as early as possible.

2. Everyone can identify equipment anytime. Location and status are tracked and information is always accessible.

3. Work can be documented inside SEP and from here to integrated to any software. Instructions can be used.

Passport



How does the Material Tracking work (simplified)?



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Artificial Intelligence can today be used to enable more efficient production and digital production processes



	Equipment identification	Process optimization	Digitalization initiative
Investment	-300	-120	-240
General Units	3500	1100	4500
■ Maintenance & TA	300	1200	1800
Project	1365	2150	700
■ SUM	4865	4330	6760

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* OData services via SAP Business Technology Platform OData provisioning or SAP Gateway (see details about deployment options in SAP Note 1830712)



