

CaCaMat

Match your production capabilities and capacities with the customer requirements

Capabilityand **Capacity**based **Supplier and Customer** Matching

The project focuses on facilitating matching of Fabrication-as-a-Service providers in the metal industry with their customers requiring custom-made narts. Due to our solution a customer in a nre-nurchase

Features

3D pipe creator - an application for a customer to design a required part, in particular a pipe cut and bent according to particular parameters, recorded in AAS. **Capability Capacity Service** - an application for the supplier to expose the technological capabilities of the machine park in AAS and the planned production schedule. **Matching Service** – an application which, after receiving a description of a new part, transmits it via the M4.0 platform to the registered FaaS providers, collects their responses and presents them to the customer.

	Mat	^	Suppliers Matching									
-	Suppliers matching		Chair v2.json									
	Administration		SEND INQUIRY TO	O SUPPLIERS	REFRESH	CLEAR INQUIRY						
F.	Logout		Supplier name	Status	Delivery date	Quotation						
-			CMBIT (Supplier)	Confirmed	26/01/2022 15:55	SEND REQUEST FOR QUOTATION						
			BendPol (Supplier)	Confirmed	29/01/2022 22:43	SEND REQUEST FOR QUOTATION						
			Pipex (Supplier)	Confirmed	25/01/2022 06:13	SEND REQUEST FOR QUOTATION						

	Scheduling	~	E≡ Tasks		
ß	Master data	^	C		
••			Name	External ID	То
	Personnel		 Steam coil 20kW 	Z/2021/123	05/07/2022 00:00
E:			Cutting - Steam coil 20kW	Z/2021/123/10	05/07/2022 00:00
	Tasks		Transport - Steam coil 20kW	Z/2021/123/20	05/07/2022 00:00
*			Bending - Steam coil 20kW	Z/2021/123/30	05/07/2022 00:00
	Equipment		Transport - Steam coil 20kW	Z/2021/123/40	05/07/2022 00:00
{}			Assembly - Steam coil 20kW	Z/2021/123/50	05/07/2022 00:00
	Model instances		> Steam coil 20kW	Z/2021/124	06/07/2022 00:00
	Administration	~	> Steam coil 20kW	Z/2021/125	07/07/2022 00:00
	AMINIBURIUM	-	 Handlebars Triumph 1050 08 - 14 	Z/2021/126	08/07/2022 00:00
Ð			Cutting - Handlebars Triumph 1050 08 - 14	Z/2021/126/10	08/07/2022 00:00
	Logout		Transport - Handlebars Triumph 1050 08 - 14	Z/2021/126/20	08/07/2022 00:00

Benefits

Manufacturers benefit from easy verification of incoming

The **customers** benefit from shorter lead-time of suppliers which

Saw 1 capacities										
Start	End	Quantity	Quantity unit	Capacity group	Change type	Task Exter				

Validation

Integration of the developed apps together with the M4.0 platform and the existing IT systems of a customer BIT and a manufacturer CMBIT was performed, ensuring their full usability. In addition mock instances of the supplier app were created to test whether the capability and capacity is properly exposed via the IDS connectors and the M4.0 platform. Both the scheduling on the side of the manufacturer and matching between the customer and suppliers were successfully validated in a **real environment**.



CONNECT & PRODUCE

Acknowledgment

This work has been performed in the context of the **CaCaMat** project, an open call #1 winner of the H2020 MARKET4.0 project (market40.eu), with participation of

- CMBIT: www.cmbit.pl
- MASTA: www.masta.solutions
- BIT: www.pphu-bit.pl

The H2020 MARKET4.0 project develops an open digital platform for multi-sided enabling production equipment and service providers to connect and work together with manufacturing companies. The MARKET4.0 platform enables new business, based on value-adding interactions among the production equipment and service providers and their customers while at the same time provides an open and participative This dissemination material is part of the CaCaMat Project, an open call #1 winner of the MARKET4.0 Project that has received funding from the European Union's Horizon 20020 research and innovation programme under grant agreement Nº 822064.