eSourcing and MBE

Prepared for MBE Supplier Summit
Huntsville, AL

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Overview

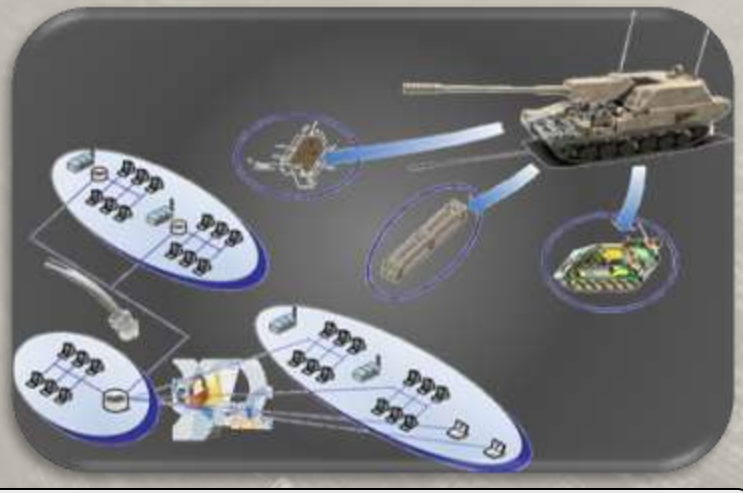
- What is eSourcing and how does it fit into MBE?
- Past experience at ARDEC
- Next Steps
- Conclusions

eSourcing: A Definition

A class of computer applications that automates, streamlines and documents the process of selecting a supplier and then obtaining a given product.

The Model Based Enterprise (MBE) Connection

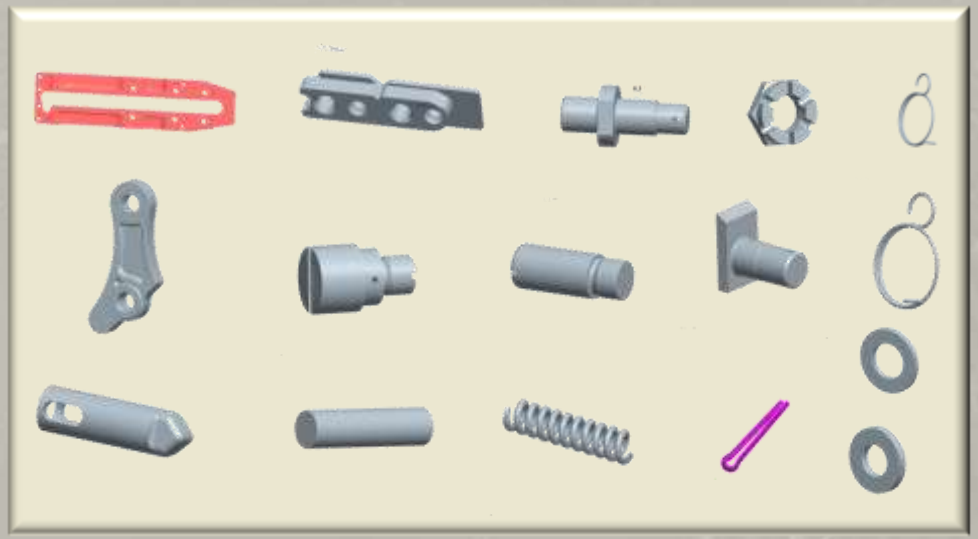
- eRFIs, eRFQs and POs can reuse and distribute the master model information to the supply chain
- Overall, eSourcing maximizes the reuse of the master model to minimize down stream re-mastering which is the core of MBE

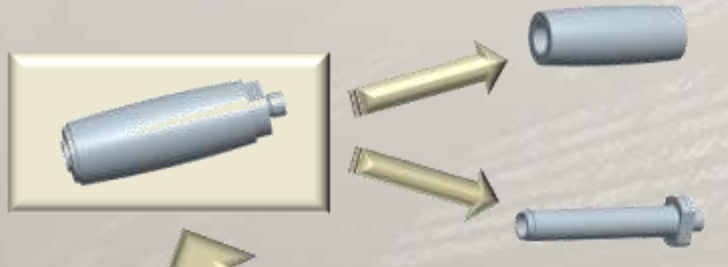


ARDEC & DLA Pilots

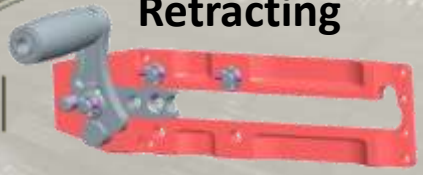
- In 2008 & 2009 the Prototype Process and Material Technology Division at Picatinny Arsenal teamed with the Defense Supply Center Columbus Ohio to pilot the use of a 3D TDP to procure hard to source parts
  - This was based on a re-mastered 3D Model and an updated CAD drawing from a 1930 vintage hand drawing
  - In many cases a generic process definition was created and then distributed with the TDP
- The TDP was also distributed through an eSourcing web portal
  - This tool also aided in source selection and tracked the progress of the parts procurement

M2 Machine Gun DSCC Parts





M2 Slide Assembly, Retracting

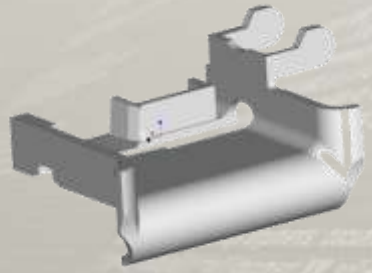


M2 Latch Bolt

M203 and M240 DSCC Parts

M240 Machine Gun

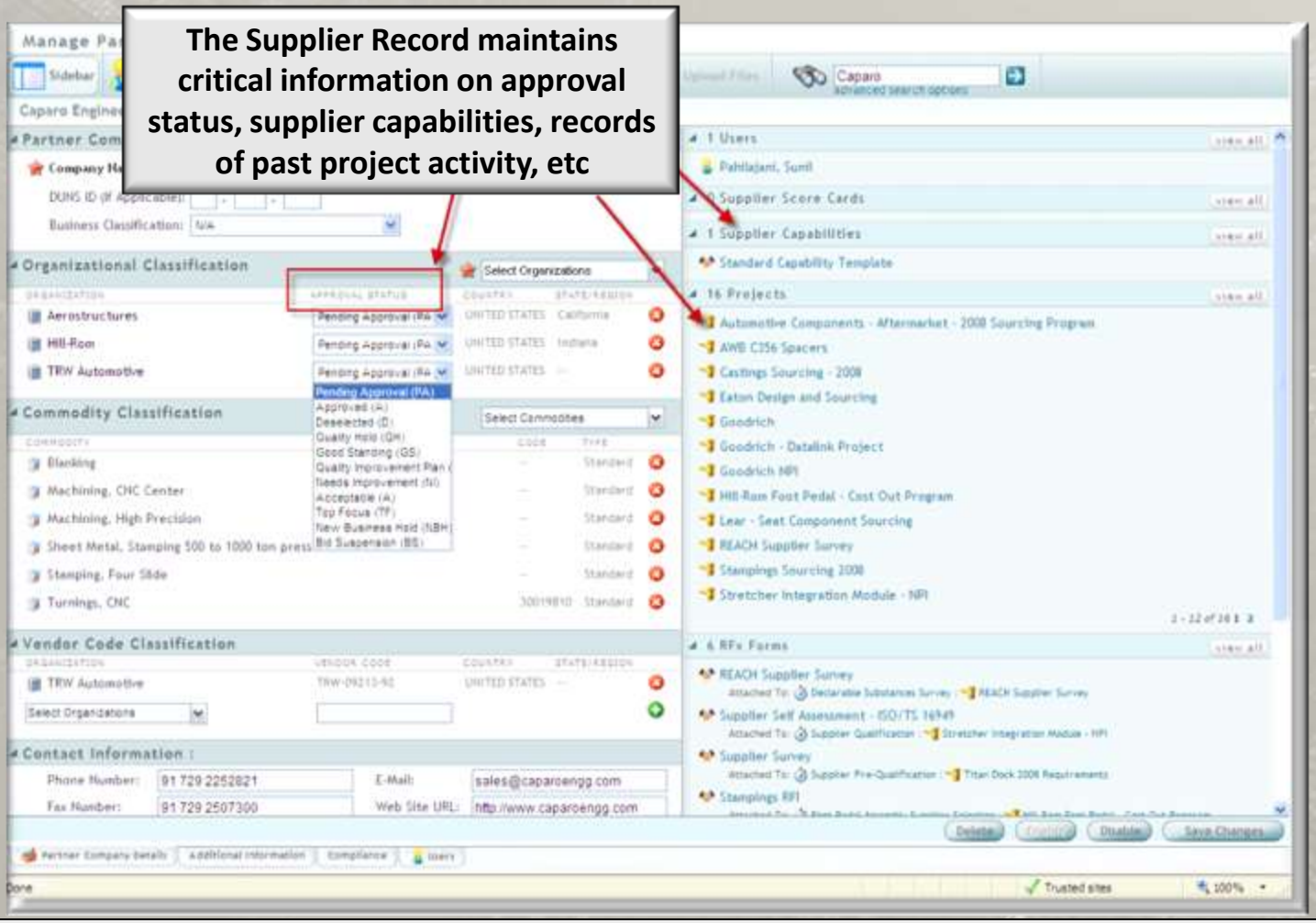
M240C Feed Tray



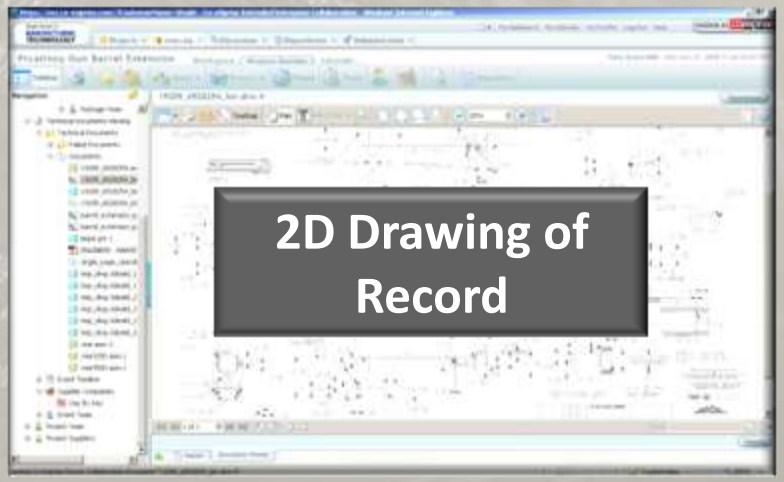
M203 Grenade Launcher

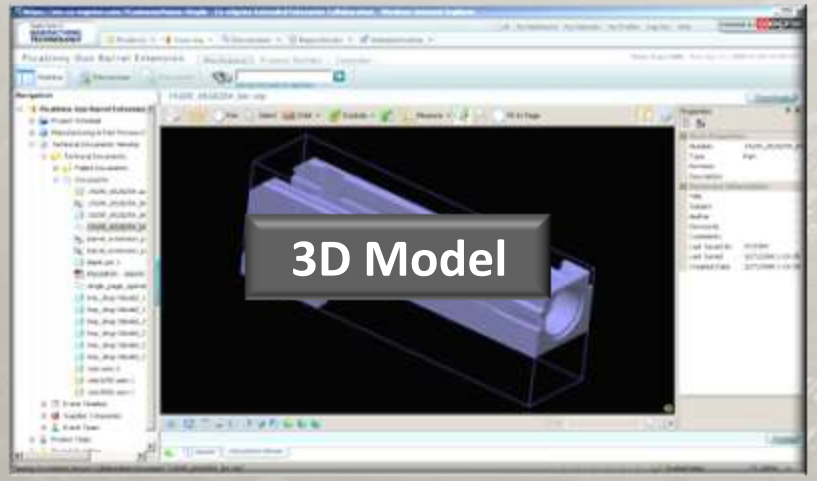
Sear, M203

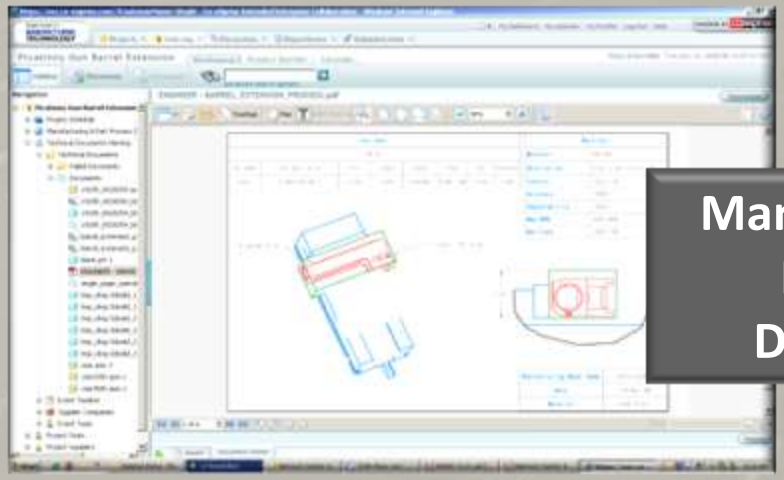
eSourcing Data



Pilot TDP



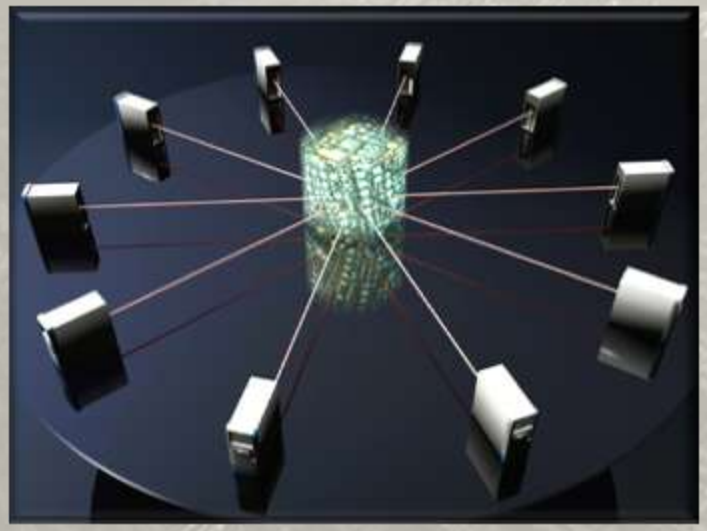




Manufacturing Process Definition

Future State

- TDPs will be based on a fully annotated model with 2D views that are on demand printouts
- The eSourcing tool will be fully integrated with the design repository and financial systems for a seamless exchange of data
- There will be a data base of pre-certified suppliers
- Source selection tools will notify suppliers when a RFI or RFQ is ready for a response



Conclusions

- eSourcing will make it easier for both the DoD and the supply base to procure items
- The 3D TDP will help reduce the ambiguity found in traditional drawings
- In short, we will provide you what you need to do your job

Questions