Prototype Implementation of STEP-NC in CATIA V5

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• Part to Machine and CATIA V5 PMG Workbench
• Face 1 Machining Operations
• Face 2 Machining Operations
• Code generation
• Conclusion
Global Process for Prototype Validation

1. Feature Based Design
2. Feature Based NC Programming
3. STEP-NC and NC Code Generation
4. STEP-NC Based NC Manufacturing

Part to machine
Feature Based Design

Face 1 Machining
Face 2 Machining

Feature Based NC Programming
STEP-NC Code Generation

- Select a Machining Program and Generate the STEP-NC Code

Dedicated Output Option for STEP-NC Prototype

STEP-NC Output
NC Code Control and Generation (Siemens STEP-NC interpreter)

Dissemination at EMO Fair

Distributed flyer

STEP-NC presentation on DS/IBM Stand C93 Hall 12
Conclusions

- STEP-NC prototype fully integrated to PMG CATIA V5 workbench
- Same global end to end process
  - Take benefits of feature concepts
  - Fully interactive graphical user interface
  - Full associativity from Design to NC Programming and NC Code generation
- Good partners relationship, way of success
- Next steps