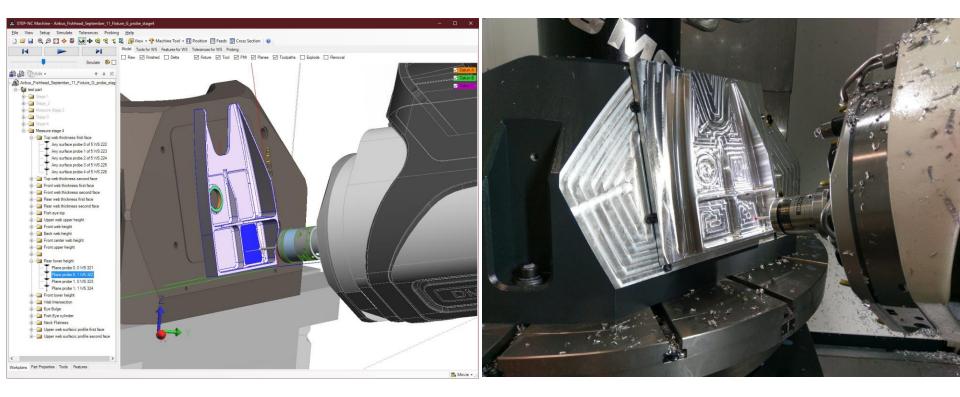


WG15 Digital Manufacturing





WG15 Digital Manufacturing

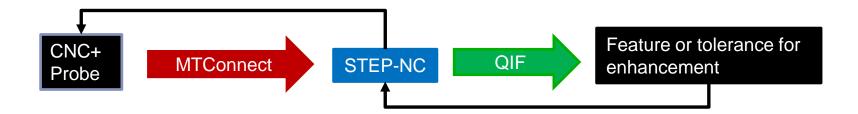
- Accomplishments in Los Angles
 - Resolved ISO 23952 QIF ballot comments
 - Resolved ISO 23247 DTF ballot comments
 - Started 3 use cases for ISO 23247
 - Gave digital twin demonstration on Industry day

1,000,000 parts have been machined using STEP-NC



ISO 23952 (QIF)

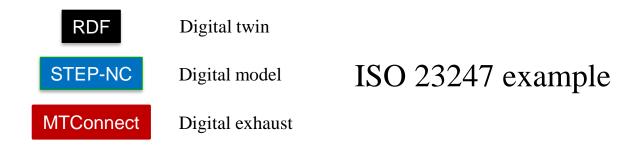
- Resolved ballot comments
- Started new project to formalize the mapping between STEP and QIF
- Tentative agreement that France and Japan will change vote to Yes





ISO 23247 (DTF)

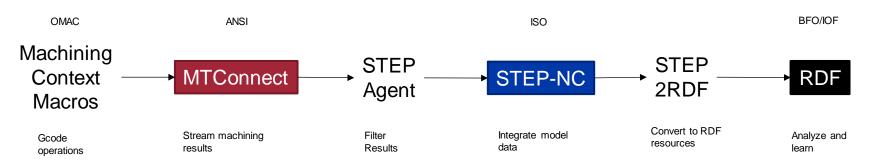
- Resolved 277 helpful comments on CD
 Thank you for the tremendous support
- Bi-weekly conference calls to complete DIS for submission in late January
- Face to Face meeting in January to finalize submission





ISO 23247 Use Cases

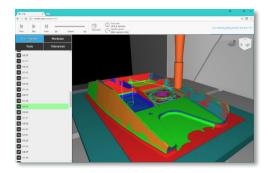
- Three use case to be developed
 - Digital Twin for robot drill and fill
 - Digital Twin for feed / speed optimization
 - Digital Twin for cutting tool assembly
- Use cases to be presented in Norway
 - Live demos and videos
 - Early drafts of technical reports





AP238 Edition 2 Review

- AP238 Edition 2 just started its DIS ballot
 - Enhancements from 10 years of STEP-NC testing
 - Integration with SMRL v8 modules
 - Addition of 14649-17 (additive manufacturing)
 - 2,000+ objects in ARM EXPRESS-G
 - All definition hot linked
 - Data examples on ap238.org



STEP-NC Machine & Measure





Industry Day

Four robot STEP-NC program

 Physical twin at BARC lab in UW
 Digital twin in LA meeting

