ENGINEERING
INTEROPERABILITY
DAY2026
JT & STEP AP242FOR DIGITAL CONTINUITY

Engineering Interoperability @ Siemens Digital Industries Software

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Thu., 1 October 2026 | nh Frankfurt Airport West | Raunheim, Germany

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AFNeT

VDA Verband der Automobilindustrie

PDES, Inc.®
Connecting the Digital Enterprise

ENGINEERING INTEROPERABILITY DAY2026
JT & STEP AP242FOR DIGITAL CONTINUITY

Promoting “Open” standards

SIEMENS
Ingenuity for life

Siemens Digital Industries Software leadership in openness

Open Culture



- Openness is a core company value at Siemens Digital Industries Software
- Approachable and engaging business practices
- Open technology and open business model

Open Data



- Interoperability enables data exchange throughout the value chain
- Siemens Digital Industries Software supports open data and standards
  - AP203, AP214, AP242
  - ISO 14306 (JT)
  - PLM XML
  - XT

Open Products



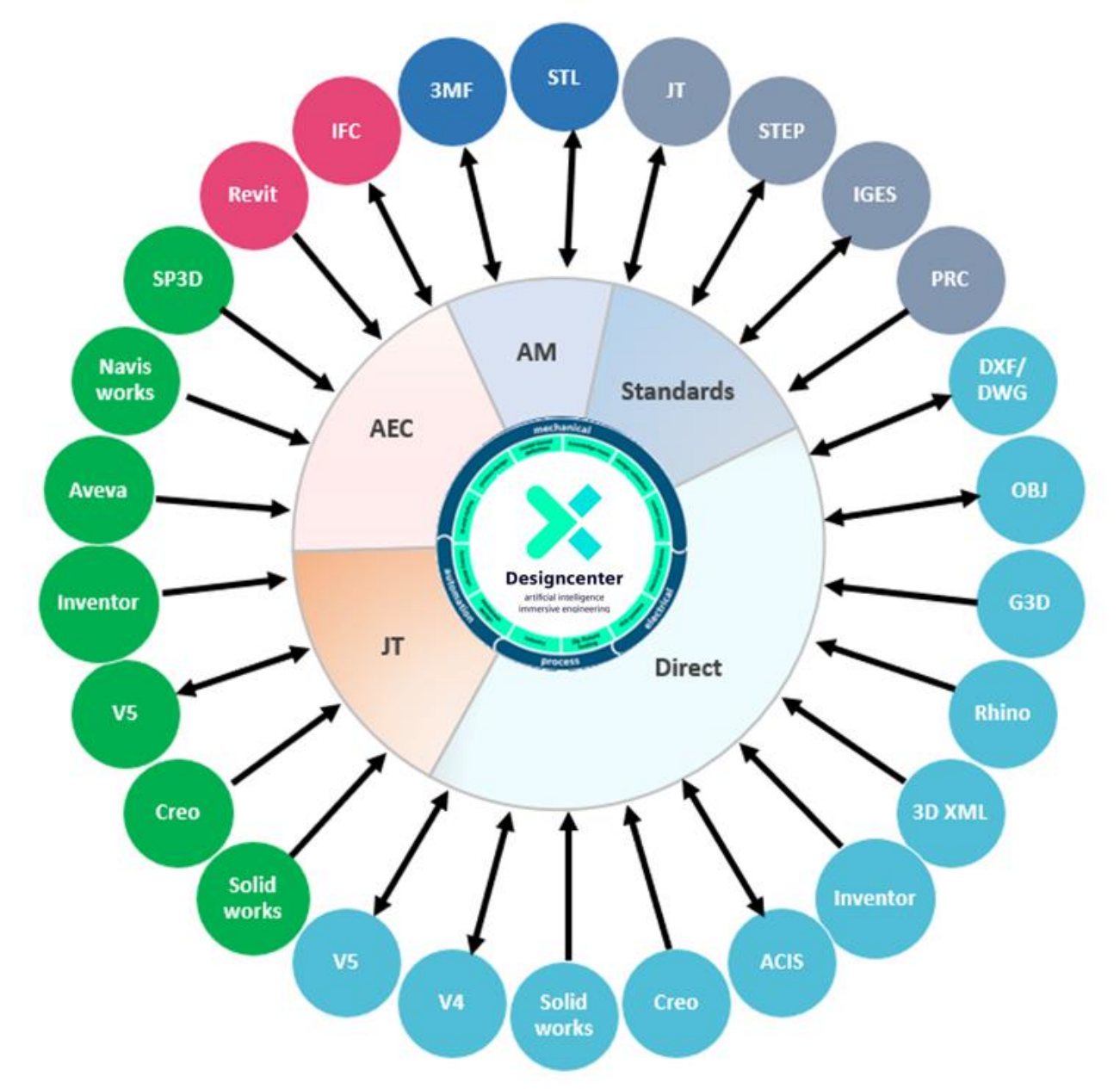
- Open architecture enables integration with other applications
- Open applications can be tailored to specific needs with user-friendly customization tools
- Open **PLM Components**:
  de facto standard functionality for integration in other applications



- Siemens DISW Partner Ecosystem
- Technical Communities- NIST, PDES, ProSTEPiViP, LOTAR, CPO
- Customer Communities- JT Open, GAAG, Realize Live, Aerospace Working Group

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Interoperability Pipeline



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Siemens Interoperability Journey

Investment and Capability

1994 NX Customers deploy AP203 AP214

2010 AP214 E2 PMI

2015 AP242 and AP242XML Product range

2016 AP242 Tessellation and PMI

2017 PMI improved schema

2018 Geometry/PMI Validation Properties

2020 AP242 E2 Kinematics

2021 Assembly Overrides & Val Props

2022 Imported PMI

2023 – 2024 Kinematics /PID/PMI

2026 **Composites**

2002 PLM Open

Publish Interoperability Data PLMXML+XT

2012 ISO 14306 (JT)

Customers Deploy Model Based Enterprise workflows for Geometry; PMI; Tessellation and Long Term Archive

AP242 XML plus JT Combination

1995 ProSTEP CAxIF Participation

2008 LOTAR Participation

2012 Core Member ProSTEP Code PLM Openness

PLM Product are Driven by Standards

Benchmark participation collaboration customer use cases

→ Invest → Deliver → Success

STEP AP242

AP242 Component Underpins Application Platforms

Design - center	Team - center Vis.	Tecnomatix	Solid Edge	STAR-CCM+	Femap	Parasolid Translator API	Mentor	STAR-CCM	Simcenter	Altair

Common Interoperability

AP242 Adapter

Common Architecture – STEP & JT

- ✓ Common interoperability pipeline in Designcenter for STEP & JT
  - ✓ Accelerate Semantic PMI support for STEP
- ✓ Close collaboration in standards development
  - ✓ PMI Validation Properties
  - ✓ AP242 XML Kinematics

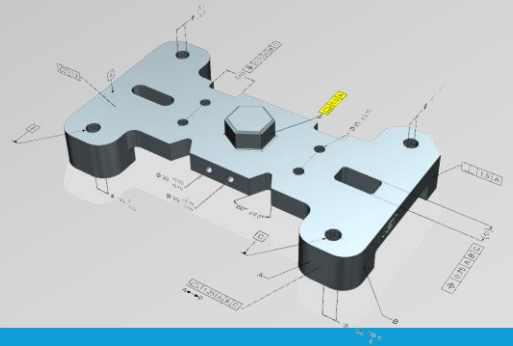
Imported PMI

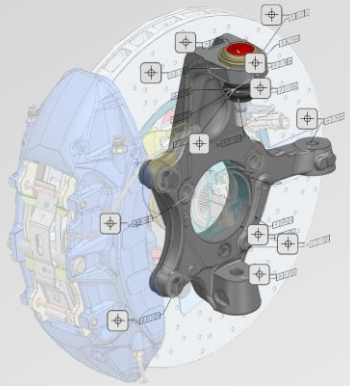
Imported PMI is graphically accurate and semantically rich PMI produced when importing CAD-neutral (JT, STEP) data in Designcenter

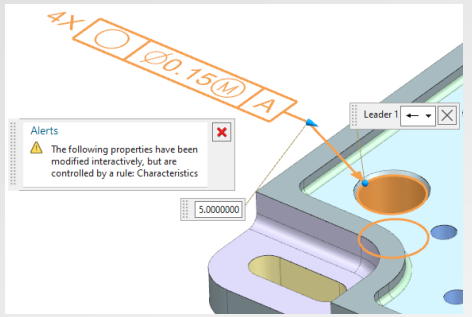
- The definition for each PMI object is preserved and saved with the part
- Consistent PMI display and behavior
- MultiCAD support
- Imported PMI objects are semantically rich and consumable downstream

MBD rules authored in the Logic Editor, PMI Advisor, and MBD Query support Imported PMI objects

- Validate Imported PMI objects using PMI Advisor
- Use Imported PMI object properties when creating MBD rules
- Include Imported PMI objects in Text-based and Rules-based queries

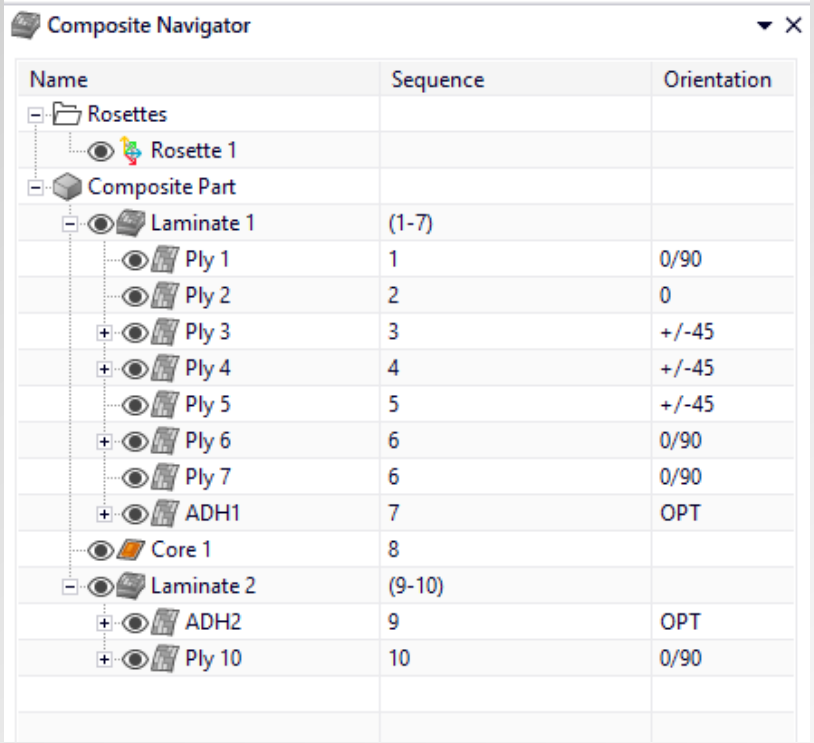




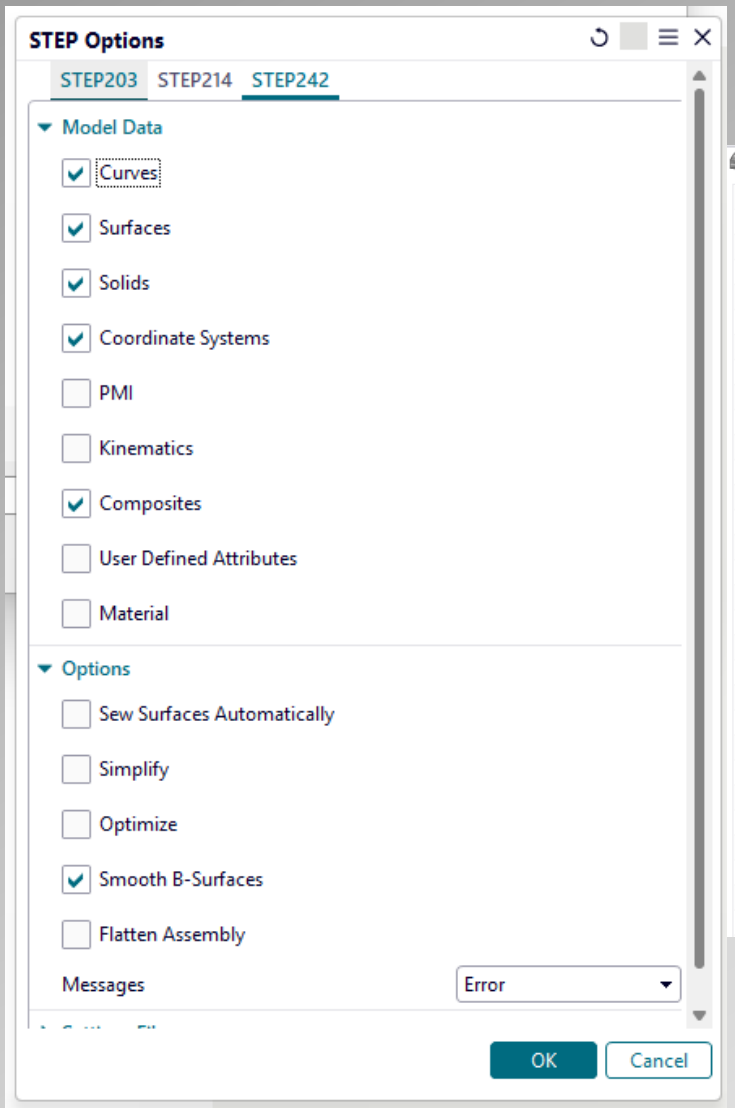


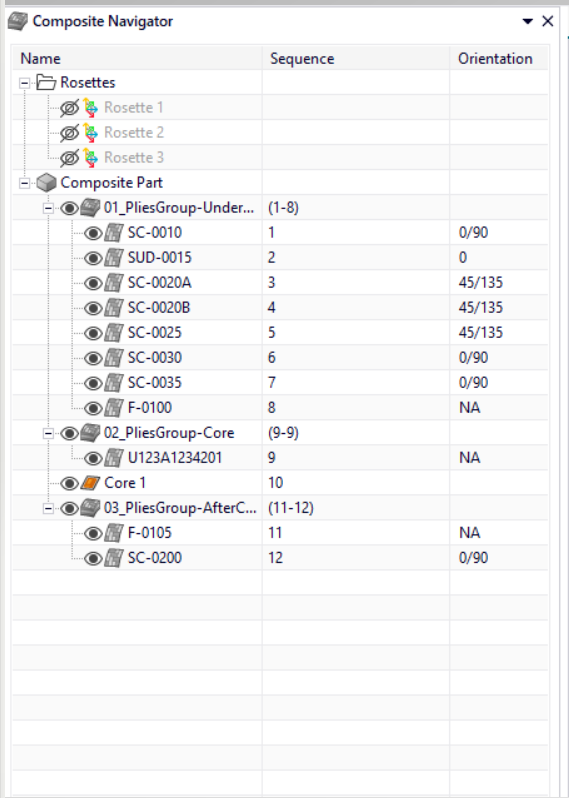
58J Test Round - Composites

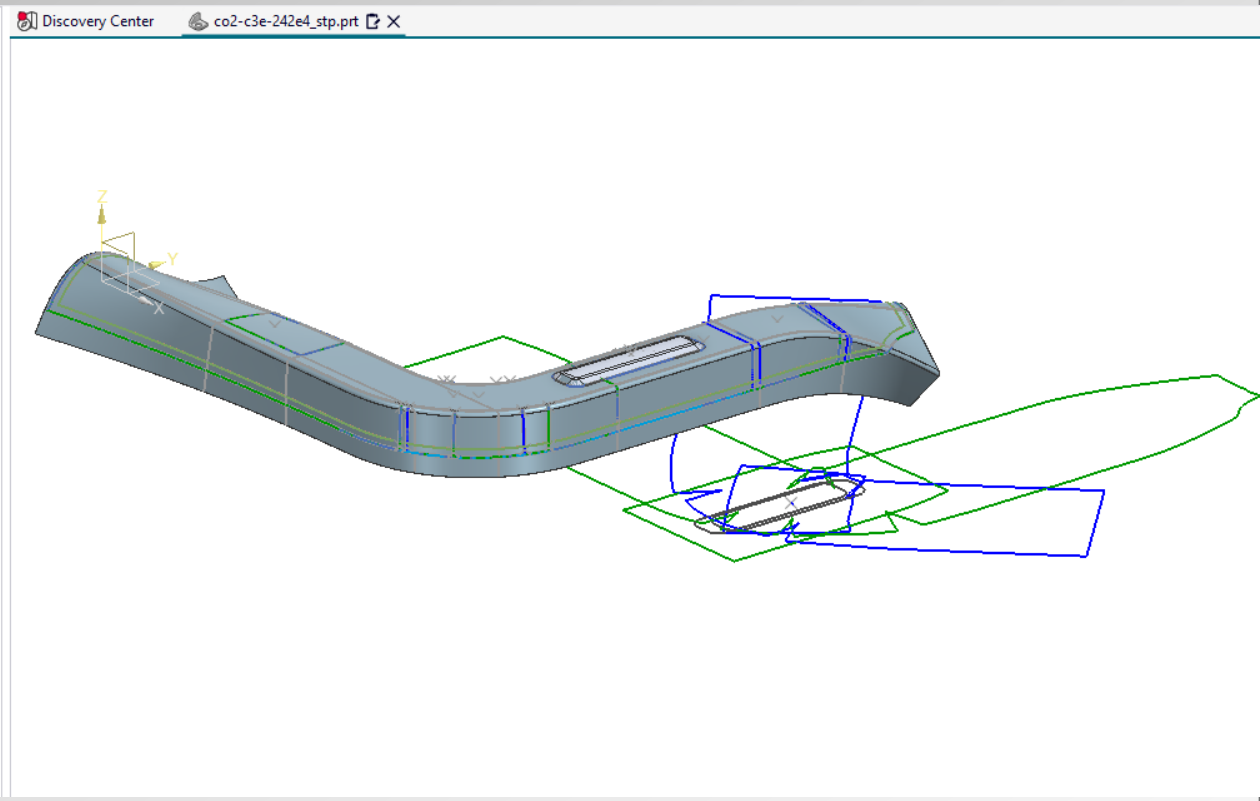
- ✓Composites: CO2 and CO6
  - ✓Able to read Dassault files into Designcenter
  - ✓Feedback from Dassault & CT Core Technologies on Siemens STEP files.



STEP Composites

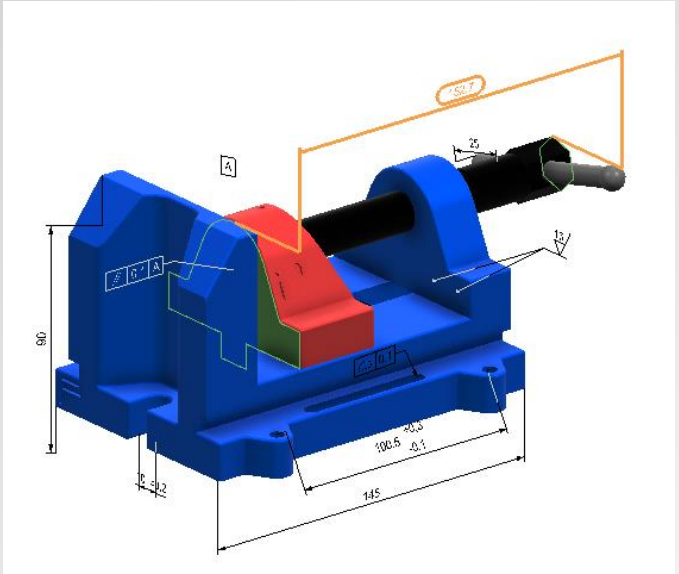


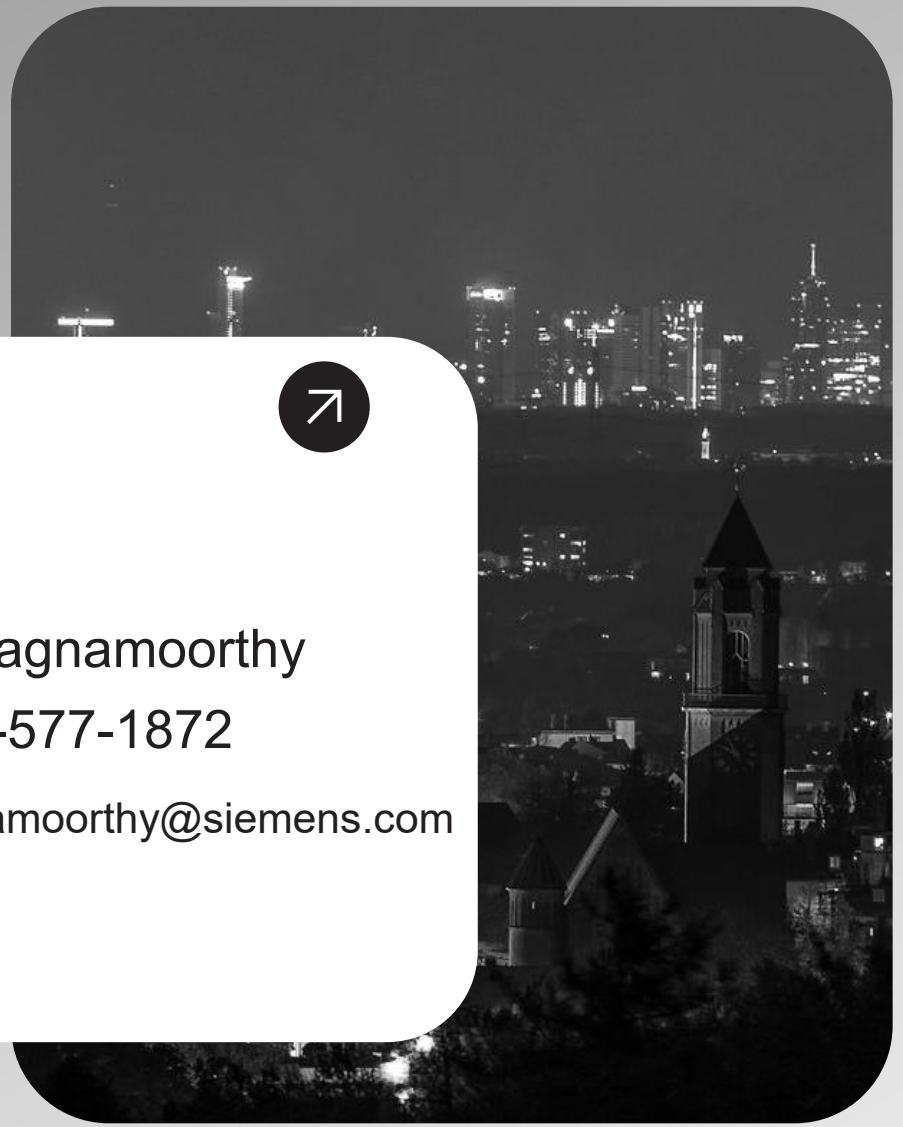




58J Test Round - PMI

- ✓Assembly Level PMI: AP2
- ✓PMI: JPMI
  - ✓ CADIQ feedback on non-solid geometry
- ✓Will collaborate on Advanced Saved Views testing.





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Thank you for your time, your energy, and your invaluable insights.