

# Part 1

## Introducing data in the PLM with the CATIA connector

PDM/PLM project informative session n°2

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EN-IM-PLM



ENGINEERING  
DEPARTMENT

# Table of content

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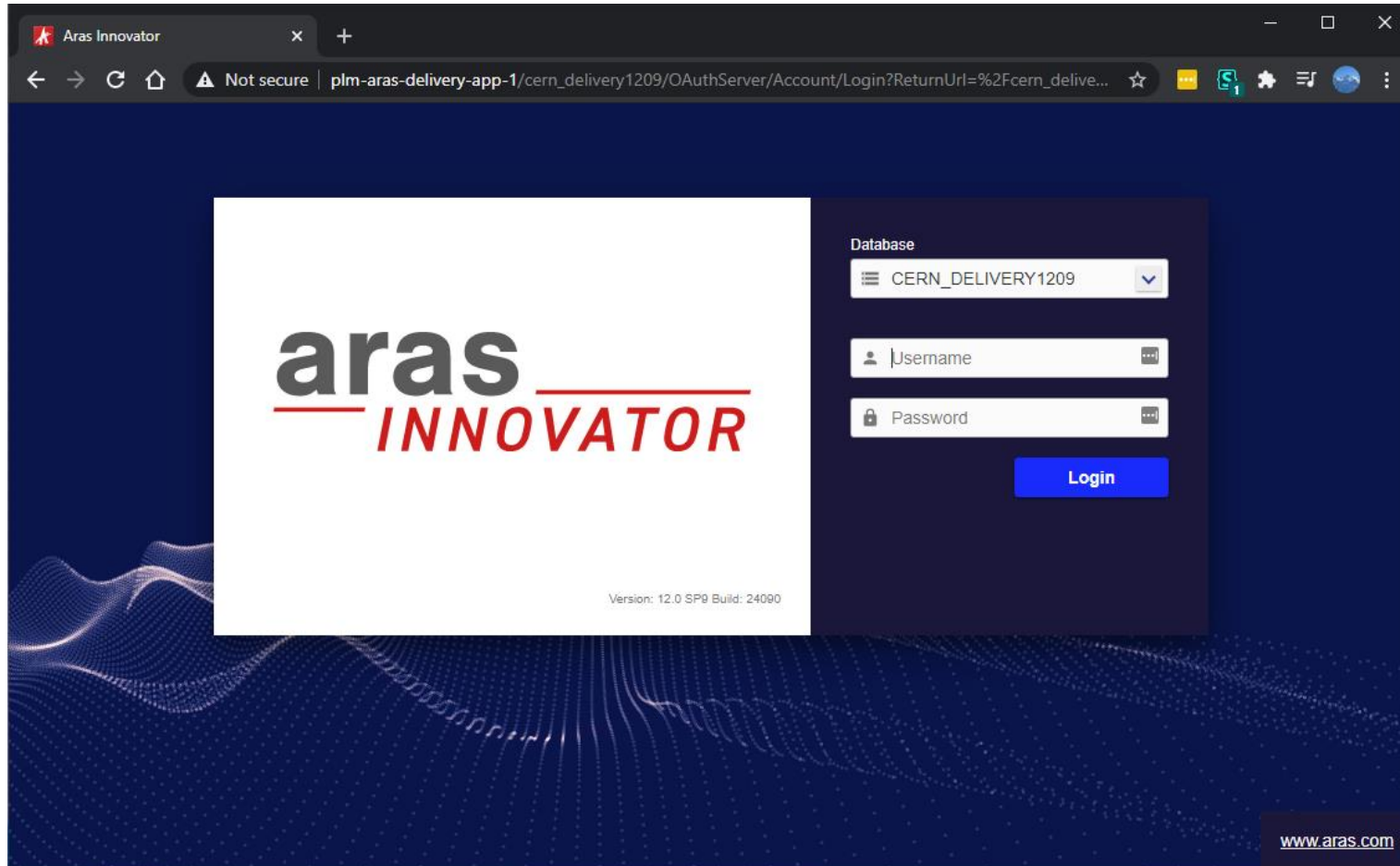
➤ Introduction	3
➤ What's a CAD Connector?	8
➤ ARAS Connector basic features overview	9
➤ Connector improvements	
➤ Current situation	10
➤ Future actions	11
➤ CATIA / ARAS PWB Connector Live demo	12
➤ How to open Catia and Aras?	
➤ Creation of new 3D and 2D CAD Documents	
➤ Modification of existing CAD Documents	
➤ BOM management / Title Block generation	

# Introduction

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- During the previous forum, you have been introduced to:
  - Aras overview
  - Tree navigation
  - Baselines
  - Metadata in CATIA tree
  - ...
  - You can find previous presentations on [Indico](#)

# ARAS Overview – Login page

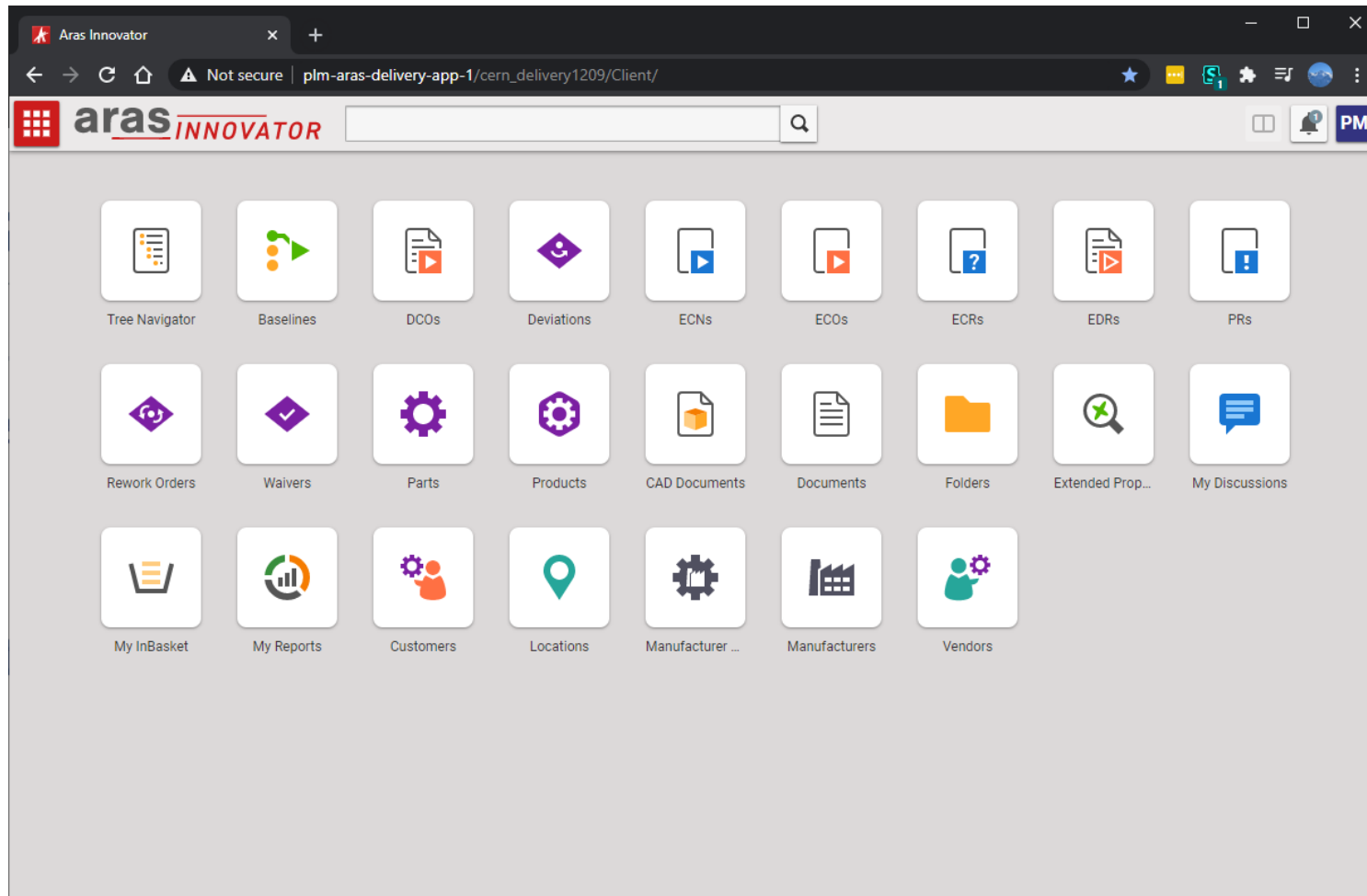


➤ Access to Aras Innovator via web browser

➤ Browsers compatibility:

-  Google Chrome
-  Mozilla Firefox
-  Microsoft Edge
-  Internet Explorer

# ARAS Overview – Main Page



## ➤ Main Page:

- Contains all the features shortcuts user can access

# ARAS Overview – Object Profile Card

Actions menus

Part

Part Number: ST0764631, Revision: A, State: Preliminary, Assigned Creator: Antonio Aversa, Designated User: [blank], Create Baseline button.

Name: 2t Piston Assembly

Type: Assembly, Unit: EA, Make / Buy: Make, Cost: [blank], Effective Date: [blank]

Long Description: 2t Piston Assembly Ensemble Piston 2t

Changes Pending:

BOM

Seq...	Part Number	Rev...	Name	Type	Quantity	State	Unit	Reference Designator	Chan...	Frozen	PWB Original...
1	ST0764907	A	2t Support Assembly	Assembly	1	Preliminary	EA		<input type="checkbox"/>	<input type="checkbox"/>	
2	ST0764329	A	Worm Gear NEFF M2-16:1-R-Tr2...	Assembly	1	Preliminary	EA		<input type="checkbox"/>	<input type="checkbox"/>	
3	ST0764493	A	NEFF Customized Nut - Jack 2t	Component	1	Preliminary	EA		<input type="checkbox"/>	<input type="checkbox"/>	
4	ST0765028	A	2t Jack Ram	Component	1	Preliminary	EA		<input type="checkbox"/>	<input type="checkbox"/>	
5	ST0765352	A	End-Stop Nut	Component	1	Preliminary	EA		<input type="checkbox"/>	<input type="checkbox"/>	
6	ST0765648	A	Bearing Axis	Component	1	Preliminary	EA		<input type="checkbox"/>	<input type="checkbox"/>	
7	ST0201374	A	Jack - Key	Component	1	Preliminary	EA		<input type="checkbox"/>	<input type="checkbox"/>	
8	ST0765136	A	2t Jack Guide	Component	1	Preliminary	EA		<input type="checkbox"/>	<input type="checkbox"/>	
9	ST0765781	A	Hexagonal Driving Socket	Component	1	Preliminary	EA		<input type="checkbox"/>	<input type="checkbox"/>	
10	ST0765714	A	Axial Spherical Plain Bearing INA...	Assembly	1	Preliminary	EA		<input type="checkbox"/>	<input type="checkbox"/>	
11	ST0765247	A	Extractable Pin ø6m6x16 DIN 79...	Component	1	Preliminary	EA		<input type="checkbox"/>	<input type="checkbox"/>	
12	ISO 4762 M2x5-A4	A	HEX SKT HD cap screw_M2x5	Component	1	Preliminary	EA		<input type="checkbox"/>	<input type="checkbox"/>	

Profile Card  
Basic information

Additional data:  
✓ BOM  
✓ CAD Docs attached  
✓ etc...

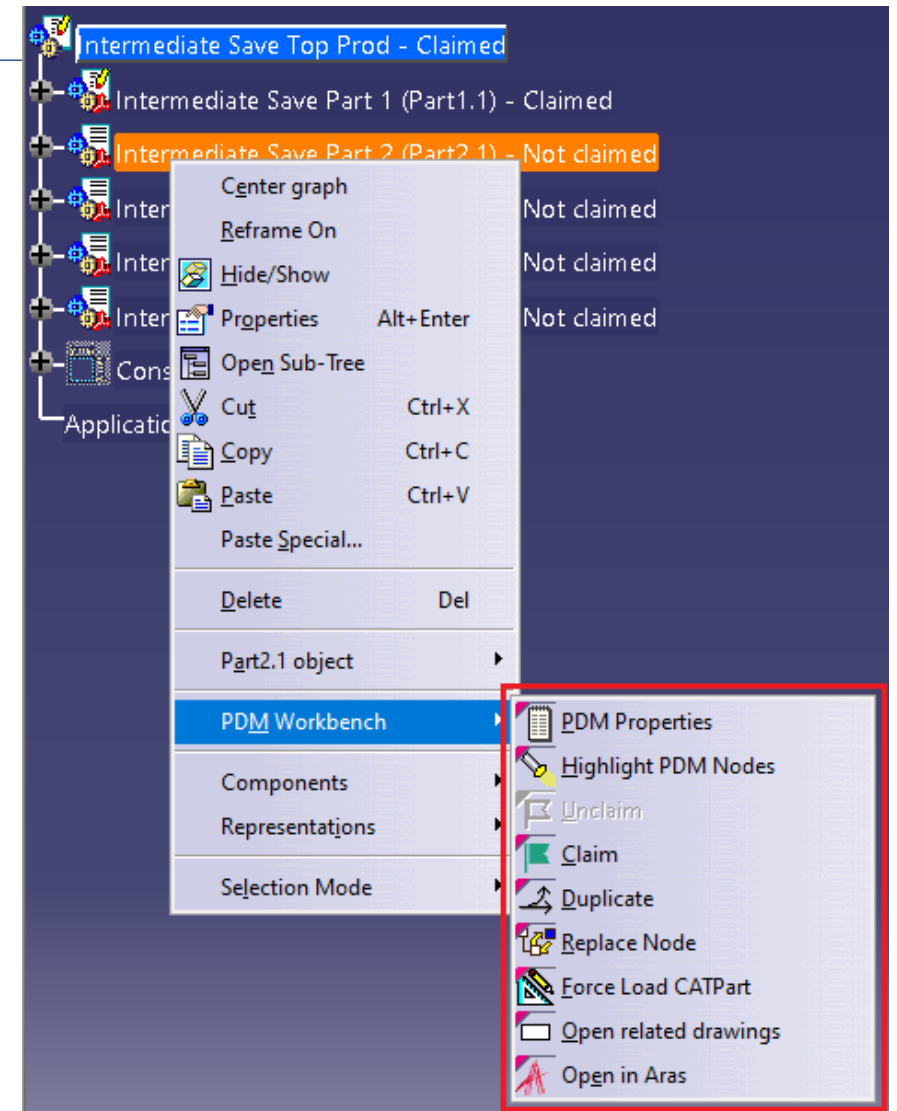
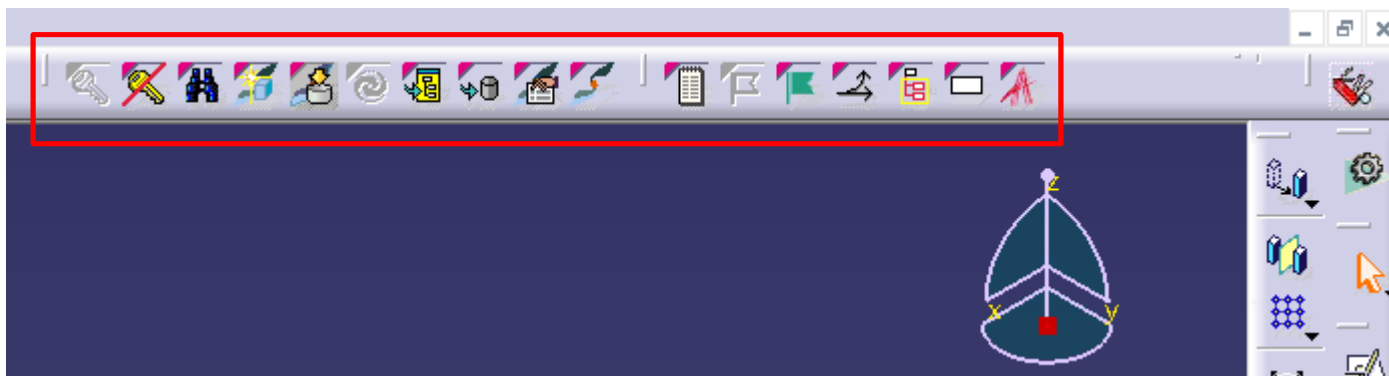
# Introduction

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- We will now focus on the data process itself:
  - How to launch Catia / Aras?
  - ARAS Connector basic features overview
  - Connector improvements: current situation and future actions
  - How to create a CAD Document and save it in the PLM?
  - Creation of the associated 2D Drawing and upload to the PLM
  - How to modify an existing CAD Document?
  - Title Block generation on the 2D Drawing

















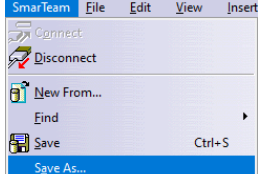

# What's a CAD Connector?

- A connector is an additional software enabling the communication between the CAD software and the PLM platform.
- Concretely, a CAD connector consists in toolbars and contextual menus gathering all the specific features to exchange CAD models and metadata with the PLM platform:





# ARAS Connector basic features overview

Connector features equivalency SmarTeam vs. Aras			
SmT Icon	SmT feature designation	ARAS Icon	ARAS feature designation
	Check-Out		Claim
	Check-In		Unclaim
	SmarTeam Save		Update
	Connect		Login
	Disconnect		Logout
	Show Profile Card		PDM Properties
	Switch To SmarTeam		Open in Aras
	Find Document by Attribute		Query
	Save As...		Duplicate

# Connector improvements

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- Current situation:
  - Query menu updated with expected entry format
  - PWB Update dialog enhanced (actions log, Team/Group selection)
  - Replace with selected revision in an opened CATProduct
  - Open multiple documents simultaneously
  - Folder selection during save enhanced

These features will be available as of next delivery from T-Systems

# Connector improvements

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- Future actions:
  - Intermediate CATIA saves – avoid useless version creation
  - Manage/Show/Open following all CATIA V5 links
  - Identify CATProducts containing updated/outdated children
  - Save all CATIA content recursively
  - Open with on the fly replacement in case of conflicting versions
  - Dialog enhancements – humanly understandable messages

# CATIA / ARAS PWB Connector Live Demo

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- How to open Catia and Aras?
- Creation of new 3D and 2D CAD Documents
- Modification of existing CAD Documents
- BOM management / Title Block generation

Video of the demo is accessible in [EDMS document 2603273](#)

# Thank you for your attention !

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