

Arena–CADTALK Integration for Microsoft Excel

Automate Design Processes for Accuracy



OVERVIEW

Most product companies share a common struggle—managing and releasing design data from engineering teams to the rest of the company. Painful manual processes contribute to team dissatisfaction and disconnected data silos, resulting in a lack of visibility and collaboration and, ultimately, poorer product decisions. Facilitate better collaboration between your teams and get better products faster with an automated integration between Arena PLM and Microsoft Excel®. The CADTALK Integration for Microsoft Excel provides a seamless, accurate bidirectional flow of information between Microsoft Excel and Arena for prototype, new product introduction (NPI), and ongoing product development processes.

CONNECT THE MECHANICAL DESIGN PROCESS TO THE FULL PRODUCT RECORD

Collaborating with today's dispersed design teams introduces risk when moving from team-level engineering design to the larger released product record and manufacturing. Design teams utilize Microsoft Excel work-in-progress (WIP) tools to ensure engineers do not step on each other's toes during early design. Once the individual designs are mature enough, they need to be incorporated into the full product design with other mechanical, electrical, software, and documentation components. With CADTALK Integration for Microsoft Excel, teams have an automated and easy process that reduces errors and accelerates the NPI process.

HOW IT WORKS

The CADTALK Integration for Microsoft Excel provides design teams with the ability to create and publish parts, BOMs, and files from within Microsoft Excel to Arena. Microsoft Excel users publish the engineering BOM and configurable file types such as PDF, STEP, or CAD data to Arena. All integration activities can be accessed on demand through the Microsoft Excel files both with and without PDM or directly from PDM with a headless automated service.

BENEFITS

✓ Faster Innovation

- Ensure operations team feedback early in the design process, in support of design for manufacturing (DFM) framework
- Provide the information necessary for accurate and responsive sourcing

✓ Process Simplification and Standardization

- Reduce onboarding and training time by removing the need to learn how to duplicate same or similar tasks in multiple systems
- Support business needs with configuration options for publishing part data based on design scenarios
- Maintain a consistent and controlled complete product record for the entire organization and supply chain

✓ Reduced Product Delays and Costs

- Eliminate the risks of data entry errors
- Ensure everyone is working from the same, most current product record and associated files

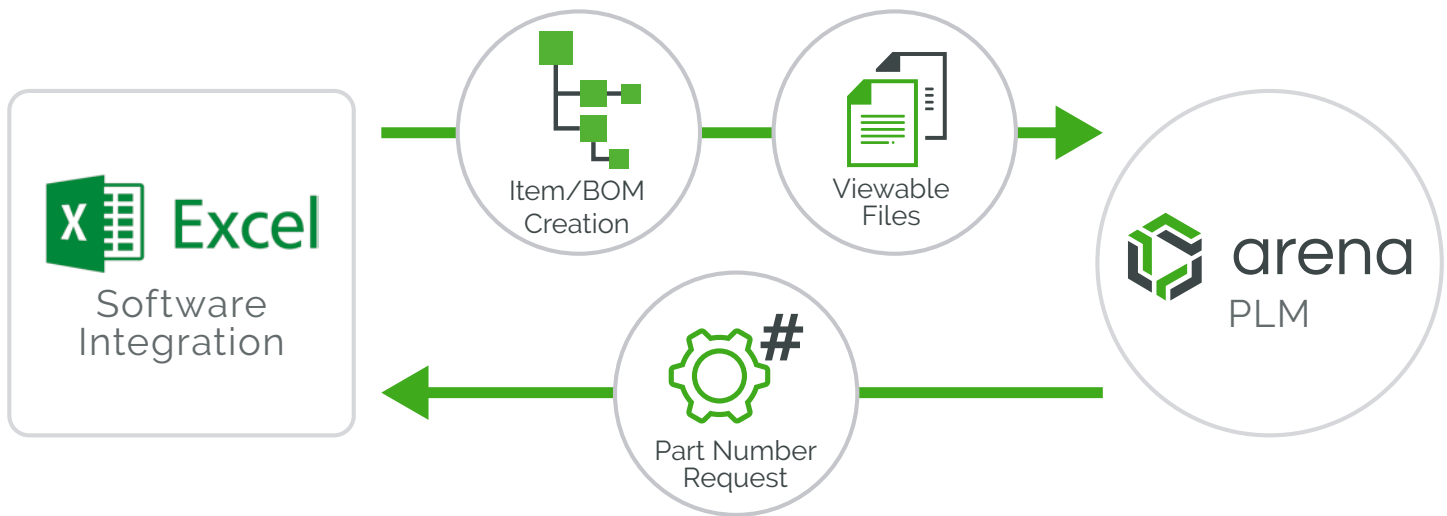
THE CADTALK CAD – PLM SOLUTION

Have multiple CAD tools across your engineering teams? You can use CADTALK platform to integrate them to Arena. CADTALK is a middleware automation layer that facilitates data flows between multiple CAD systems and Arena.

Systems currently supported include Autodesk® AutoCAD, AutoCAD Electric, Fusion 360, Inventor/ Vault, and Revit; PTC Creo; SOLIDWORKS®, Solid Edge®, EPLAN; Microsoft® Excel, and Tekla®.

Cadtalk Minimum Technical Requirements

- Windows 10 or higher
- Processor 1.5 GHz or higher
- 8 GB of RAM
- Disk space (minimum) 500 MB
- NET Framework 4.6.xx or higher
- CAD software is not required to use CADTALK unless user wants to install inside the CAD host.



The screenshot displays the CADTALK Standalone Host interface. On the left, a tree view shows the assembly structure for '2200-2000-1'. The main area shows a detailed parts list with columns for Level, Part Number, Description, Long Description, Material, Dimensions, Length, and Width. The parts list includes various components like granulator fluidization, air heater, coils, tubesheets, fins, ferrules, and headers.

LEVEL	PART NUMBER	DESCRIPTION	LONG DESCRIPTION	MATERIAL	DIMENSIONS	LENGTH	WIDTH
1	2200-2000-1	GRANULATOR FLUIDIZATION	AIR HEATER, 27E018A/B				
2	2200-2001	COIL, BODY					
3	2200-2006	FERRULED, TUBE SHEET	STEAM INLET	MATL-4	91.4 X 13.10C	91.041	1
4	2200-2004	TUBESHEET		MATL-5	86.30 X 3.28	86.295	
5	2200-2003	FIN, FERRULE	CONDENSATE OUTLET	MATL-7	91.4 X 13.10C	91.041	1
6	2200-2007	FERRULED, TUBESHEET	CONDENSATE OUTLET	MATL-8	86.30 X 3.28	86.295	
7	2200-2005	TUBESHEET		MATL-9	78.74 X 13.1	78.742	1
8	2200-2003	FIN, FERRULE	INTERMEDIATE	MATL-10	86.48 X 10. X	86.482	
9	2200-2010	FERRULED TUBESHEET,	INTERMEDIATE	MATL-11	86.30 X 3.28	86.295	
10	2200-2009	TUBESHEET,		MATL-12	0.625 DIA X E	81.76	
11	2200-2003	FIN, FERRULE	STEAM	MATL-13	86.30 X 3.28	86.295	
12	2200-2011	TUBES,	CONDENSATE OUTLET	MATL-15	88.31 X 9.50	88.313	
13	2200-2012	FIN	STEAM INLET	MATL-16	88.31 X 9.50	88.313	
14	2200-2013	HEADER PLATE	STEAM INLET	MATL-17	0.630 DIA X	85.063	
15	2200-2014	HEADER WELDMENT	STEAM INLET	MATL-18	6.63 X 3.25 X	6.629	
16	2200-2017	HEADER HOUSING	WELDMENT	MATL-21	3.50 DIA X 5.1	5.603	
17	2200-2018	HEADER END DISC	STEAM INLET	MATL-22	ANSI 150, 3"		
18	2200-2020	CONNECTION STEAM INLET	CONDENSATE OUTLET	MATL-24	0.630 DIA X	85.063	
19	2200-2021	CONNECTION TUBE,	CONDENSATE OUTLET	MATL-25	6.63 X 3.25 X	6.629	
20	2200-2022	CONNECTION TUBE,	CONDENSATE OUTLET	MATL-27	4.50 DIA X 8.1	8.311	
21	2200-2023	CONNECTION TUBE,	CONDENSATE OUTLET	MATL-28	ANSI 150, 4"		
22	2200-2024	CONNECTION TUBE,	CONDENSATE OUTLET	MATL-29	9. DIA X 1. LG	1	
23	2200-2025	CONNECTION TUBE,	CONDENSATE OUTLET	MATL-30	9. DIA X 0.125 WALL		
24	2200-2026	CONNECTION TUBE,	CONDENSATE OUTLET	MATL-31			
25	2200-2027	CONNECTION TUBE,	CONDENSATE OUTLET	MATL-33	110.22 X 27.6	110.217	2
26	2200-2028	CONNECTION TUBE,	CONDENSATE OUTLET	MATL-35	2.38 DIA X 3.1	3.937	
27	2200-2029	CONNECTION TUBE,	CONDENSATE OUTLET	MATL-36	ANSI 150, 2"		
28	2200-2030	CONNECTION TUBE,	CONDENSATE OUTLET	MATL-37	6. DIA X 0.125 WALL		
29	2200-2031	CONNECTION TUBE,	CONDENSATE OUTLET	MATL-39	4.50 DIA X 7.1	7.061	
30	2200-2032	CONNECTION TUBE,	CONDENSATE OUTLET	MATL-40	ANSI 150, 4"		

DETAILED FUNCTIONALITY MATRIX BY MCAD AND CADTALK FUNCTIONAL PACKAGE

Supported functionality depends on the MCAD system and the purchased CADTALK functional package (Launch, Scale, Enterprise). The functionality each customer needs will be determined by engineering practices and design to release processes. [Please consult this matrix when considering which CADTALK package best meets your needs.](#)

Publish Options

- On-demand publishing directly from Microsoft Excel or stand-alone host
- Open the part in Arena directly from the stand-alone host

Publish Items and BOMs

- Publish a new part and BOMs from Microsoft Excel to Arena
- Support of Microsoft Excel configurations, cut lists, component exclusion and promotion

Publish Files

- Publish files to Arena, associating these file(s) to related parts in Arena

ANNUAL SUBSCRIPTION, USERS, AND
RECOMMENDED ACTIVE SESSIONS

CADTALK CAD <> PLM is an annual subscription software based on the number of active session licenses needed. CADTALK active sessions indicate the number of manual and scheduled sessions being run simultaneously for data actions between systems.

CADTALK CAD - Arena is available in three packages - Launch, Scale, and Enterprise.

Number of recommended active sessions is based on the size of mechanical engineering team.

FAST IMPLEMENTATION

Fixed-price services include implementation, configuration, training, and documentation to get your Arena platform connected to your MCAD systems so you can immediately benefit from efficient, accurate agile development processes.

GETTING STARTED

It doesn't matter where you are in your journey with Arena and Microsoft Excel—you can implement the integration at any time. It is easy to install and configure to support your existing processes. CADTALK, an Arena and Microsoft Excel partner, provides integration, installation, and configuration assistance, and customization services as needed along with on-going product upgrade support for future Microsoft Excel versions. Contact Arena or CADTALK today to learn more.

CADTALK LAUNCH AND SCALE
ACTIVE SESSIONS

Number of CAD Users/Seats	Recommended Active Sessions
1-5	2
6-10	3
11-15	5
16-20	7
21-25	8
26-30	10
31+ CAD Users- Enterprise active sessions available.	

CADTALK Enterprise package with automated publishing requires 1 active session for every 3 CAD Users

**Number of CAD Users: Recommended Active Sessions ratio is 3 : 1. Table is for estimation only.*

ABOUT ARENA

Arena, a PTC Business, helps companies create innovative products that change the world. Arena unifies product lifecycle management (PLM) and quality management system (QMS) processes, allowing every participant throughout product development and commercialization to work together fast and effectively. With Arena, dispersed teams accelerate the design and delivery of quality products. For more information, visit [Arena, a PTC Business](#).

ABOUT CADTALK

CADTALK has provided world-class CAD to ERP and PLM integration and implementation since 2005, with customers throughout the world. With a deep understanding of ERP, PDM, PLM, and CAD software and the challenges facing manufacturing companies, CADTALK provides deep and robust integrations that can be configured for each customer's needs. CADTALK has partnerships with all the major CAD/PDM/PLM vendors. For more information, visit [CADTALK.com](#)