



Simio Releases First Academic Case Study

The exciting new case study program is a re-imagining of Simio's former Student Competition

Simio is thrilled to release our first installment of the new Academic Case Study! If you were a fan of Simio's Student Competition, then we think you will like the Case Study Program – an expanded and more applicable teaching resource from Simio's Academic Team. The Case Study Program combines the interaction and real-life application of the Student Competition with expanded instruction materials to make it more accessible to a wider audience. Case studies will be released each Fall and Spring semester.

The program is free to participate in. Released case studies will be available to the public on Simio's website, but only registered instructors will receive the teaching materials and proposed solutions from Simio's Academic Team. To register as an instructor for the Academic Case Study Program, please reach out to academic@simio.com, providing your Grant Identifier # or proof of your status/affiliation with your institution.

Click below to learn more about the Case Study for the current Fall semester.

[Learn More](#)

Simio's Expanded Academic Grant Program

Gold-standard simulation software, free for institutions & students

In August 2023, Simio launched an expanded Academic Grant Program, which now includes student licenses with the institution grant award. For more information on this program and the current version of Simio, please visit [our Academic Grant Page](#).

If you would like to apply for a grant, or if you are an existing recipient, you can renew your grant by providing your Grant Identifier # here: [Simio Academic Grant Application for Academic Institutions](#).

Did you know that Simio Academic Licenses can be used for work that involves commercial partners? This type of academic-industry interaction typically occurs during Senior Design/Capstone Projects, where student teams collaborate with commercial partners. Before using Academic Licenses on a project with a commercial partner, please know that the project must be non-commercial, and that you must be able to share the name of the commercial partner/company along with a copy of the final project with Simio. The completed project will be shared on our website/social media.

Did you also know that Simio's support for instructors and students goes beyond providing license grants? Simio provides access to a free web-based textbook and supporting class materials. View the [textbook here](#).

If you have questions about using Simio Academic Licenses for projects involving a commercial partner or to learn more about how Simio can support your institution, please reach out to us at academic@simio.com.

New Features in Action!

Watch now: new features demo for the 16.255 release

Simio recently released version 16.255, bringing with it a wide range of new and improved features for users. Click below to learn more and watch a video showing some of the new features in action. See how it can help you Simio better!

[Watch Now](#)

Join us at the 2023 Winter Simulation Conference

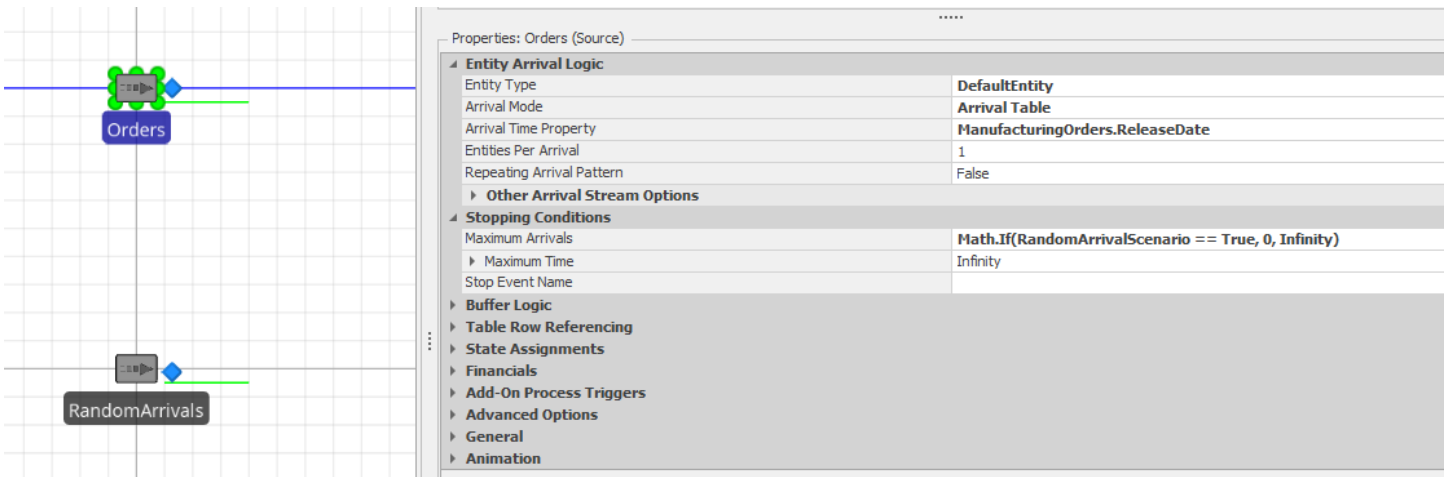
December 10-13 in San Antonio, TX

Simio is proud to be a Platinum Keynote Sponsor for the upcoming 2023 Winter Simulation Conference, "Simulation for Resilient Systems." We look forward to seeing you at the conference! For more information or to register, visit [their website](#).

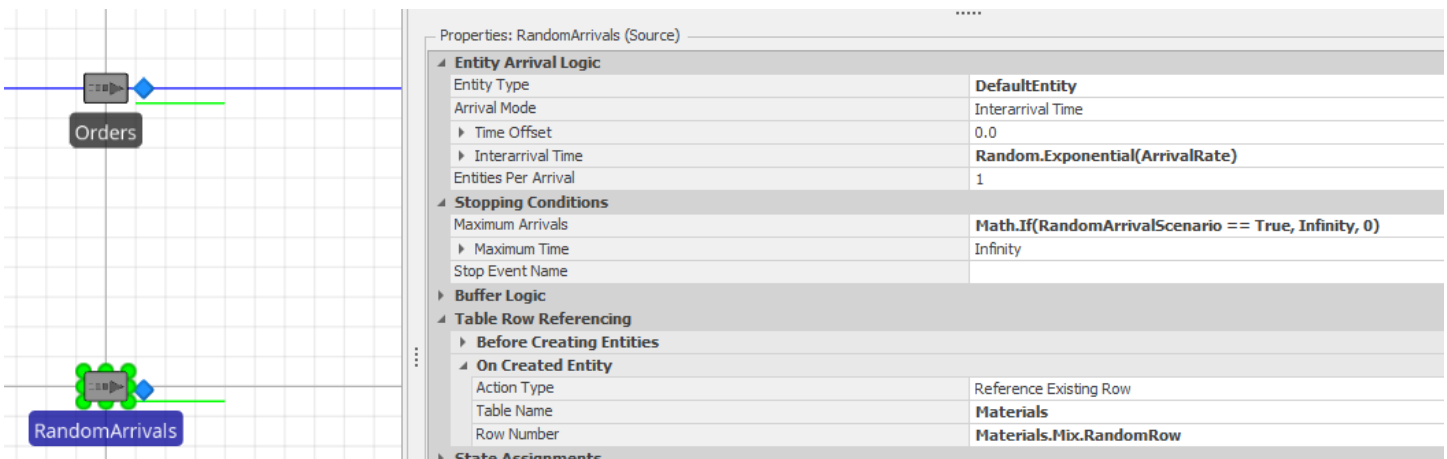
Tips & Tricks from the Simio Team

To set up a model to consider either current orders in a system or random order arrivals via an Interarrival Time, consider creating two Source objects and applying a Boolean Property to control the Maximum Arrivals at that Source. This Property can be Toggled to execute a model both with actual and theoretical data to compare varying levels of demands.

- Contribution from Drew Rose, Simio Solutions Engineer



The screenshot shows a Simio model with a Source object named "Orders" and its Properties panel. The "Maximum Arrivals" property is set to the Boolean expression `Math.If(RandomArrivalScenario == True, 0, Infinity)`. Other properties include "Entity Arrival Logic" (DefaultEntity, Arrival Table, Arrival Time Property, Entities Per Arrival, Repeating Arrival Pattern), "Stopping Conditions" (Maximum Arrivals, Maximum Time, Stop Event Name), "Buffer Logic", "Table Row Referencing", "State Assignments", "Financials", "Add-On Process Triggers", "Advanced Options", "General", and "Animation".



The screenshot shows a Simio model with a Source object named "RandomArrivals" and its Properties panel. The "Maximum Arrivals" property is set to the Boolean expression `Math.If(RandomArrivalScenario == True, Infinity, 0)`. Other properties include "Entity Arrival Logic" (DefaultEntity, Interarrival Time, Time Offset, Interarrival Time, Entities Per Arrival), "Stopping Conditions" (Maximum Arrivals, Maximum Time, Stop Event Name), "Buffer Logic", "Table Row Referencing" (Before Creating Entities, On Created Entity), and "State Assignments".



Simio Solution Series

Join us for Simio's Upcoming Webinar

Simio for DDMRP Design, Implementation, and Operation

Wednesday, November 8th, 2023 at 11:00am EST

The essence of any business is all about flow: the flow of materials and/or services from suppliers, then through one or multiple manufacturing plants, and then through delivery channels to customers; the flow of information to all parties about what is planned and required, what is happening, what has happened, and what should happen next; the flow of cash back from the market to and through the suppliers. The faster a business can make, move, and deliver its products and offerings, the better the performance of the organization tends to be.

To this end, Carol Ptak and Chad Smith, the founders of the Demand Driven Institute developed an innovative methodology called Demand Driven Material Requirements Planning (DDMRP) to manage the flow of material and information more effectively in a visual and practical way. They did this by introducing strategically placed inventory **decoupling points** to support today's reality of larger product variety, smaller orders with shorter lead times, and rapidly changing demand topped by constantly varying supply chain conditions. For a more complete description of the method including links to textbooks, videos and case studies readers should visit: <https://www.demanddriveninstitute.com/ddmrp>.

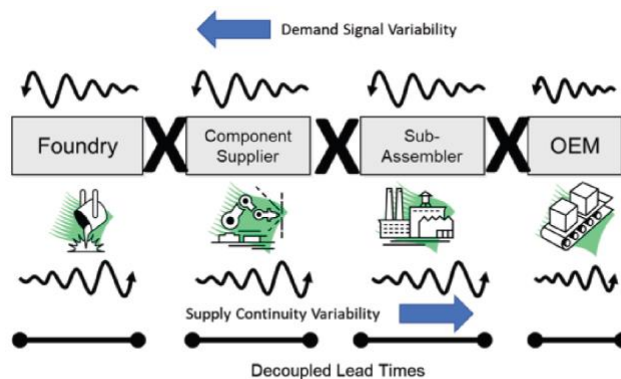


Figure 1: The Impact of Strategic Inventory Decoupling Points

Simio has created an agile platform for building Adaptive Process Digital Twins (Digital Twin) that can be deployed for both predictive and prescriptive applications to facilitate comprehensive digital transformation and process re-engineering initiatives. A Simio Digital Twin is a data generated and driven, object oriented, 3D simulation model that accurately replicates the physical behavior of complex processes when powered by Simio's discrete event simulation platform. A Digital Twin captures the current process in detail including all physical constraints, business rules, and detailed decision logic to serve as a process and operational knowledge base and reference model that can be used to evaluate all future changes and system performance.

Recognizing that an Adaptive Process Digital Twin would be an ideal platform to design and implement DDMRP, Simio and the Demand Driven Institute began a collaboration that has led to groundbreaking advancements in managing material flow. Join us for this Simio Solution Series Webinar to learn about how to use Simio for DDMRP.

[Register for the Webinar Here](#)

[Click here for a preview of DDMRP features in version 16.255](#)

[Catch up on previous webinars here](#)



Edition: November 2023

Simio LLC, 504 Beaver Street, Sewickley, PA 15143

© 2023 Copyright [Contact](#) [Privacy Policy](#)