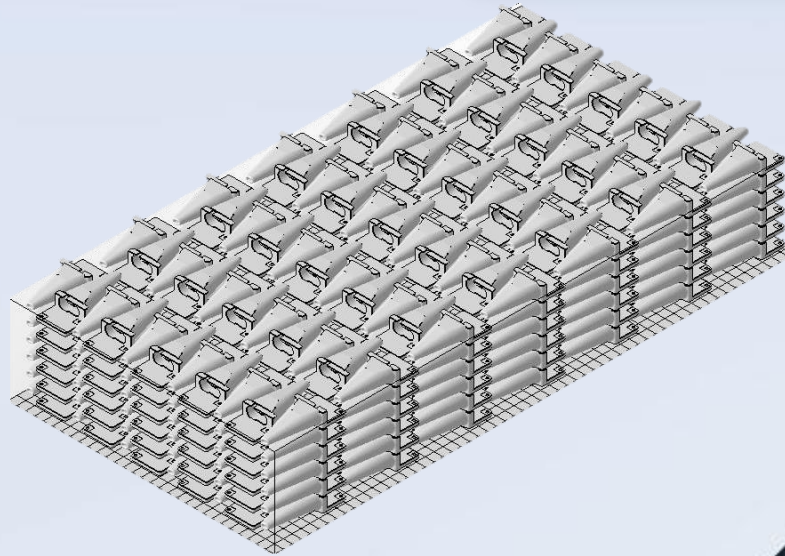


# Evolve Software Solutions



# EVOLVE'S SOFTWARE – Creator

**Creator** is our proprietary software that allows for the operator of the SVP™ (Scalable Volume Production) Platform system, in a semi or full manufacturing mode, to prepare a **digital mold** for delivery to the system for production.



*Nested sensor housings*



# THE DIGITAL FRONT END and DIGITAL MOLD MAKER

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## Evolve Factory

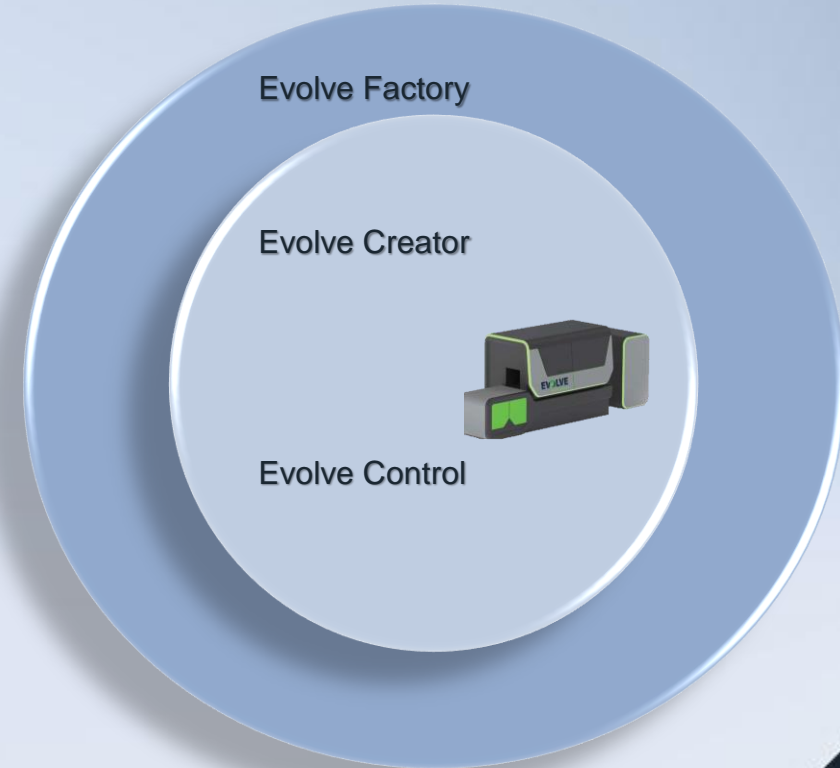
- The overall workflow to drive the SVP platform system in a production environment

## Evolve Creator

- Our proprietary software that allows for the operator of the SVP™ (Scalable Volume Production) platform system, in a semi or full manufacturing mode, to prepare a digital virtual mold for delivery to the system for production

## Evolve Control

- A set of the tools that control the entire system  
*this contains the HMI (human machine interface)*



\*STEP – Selective Thermoplastic Electrophotographic Process; this is the patented technology within the SVP platform

# SOFTWARE USE REQUIREMENTS

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- A **software** package that consolidates all the requirements to prepare production for additive manufacturing
- **Software** must work in a manual process for manufacturing engineers to iterate on designs
- **Software** must work in a manufacturing workflow where orders are coming down from a manufacturing execution system and driving the operation of the machine(s)



# BENEFITS OF CREATOR

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## Our Software is Connected

- Integration with CAD authoring tools
- Tracks post processing workflow stages
- Manufacturing processes are digitally stored in virtual warehouse
- Scalable to meet just-in-time demands

## Our Software is ideal for the Smart Factory

- Allows the communication of manufacturing data through API's
- Integration with the manufacturing floor
- Allows the re-configuration of digital molds based on factory learning



# EVOLVE SOFTWARE PRODUCTS AND LICENSING

## Evolve Control- Runs on SVP Industrial PC

	Standard
HMI	X
Motion Controls Firmware	X
Imaging and Fusing Controls	X

Evolve Control Licensing	Standard
Shipped License	Included Perpetual
Software Maintenance Agreement (first 12 months)	Included
Software Maintenance Renewal	Annual Contract

## Evolve Creator Bundles - Runs on Local PC *(cloud available)*

	Basic	Integrated	Research
Build Processor (BP)	X	X	X
Modify Slicing Parameters	X	X	X
Image Viewer	X	X	X
Job Ticket Portal	X	X	X
Printer Driver	X	X	X
CAD Tool API		X	X
Time Machine		X	X
Post Process		X	X
Materials DB		X	X
Customized Slicing Developer Tool			X
Python Scripting (new recipe creation)			X

Evolve Creator Licensing	Basic	Integrated	Research
Perpetual Single per PC/Server Install/Unlimited Users	\$	\$\$	\$\$\$
2+ License Discount per PC/Server Install/Unlimited Users	Yes	Yes	Yes
Cloud Version Unlimited Users/Scalability	Available	Available	Available
Software Maintenance Agreement <i>(first 12 months)</i>	Included	Included	Included
Software Maintenance Renewal – Get upgrades, updates, tech support	Annual Contract	Annual Contract	Annual Contract

## Evolve Factory

Siemens Connectors	Option
Other ERP, PLM, MES Connectors	Option

Evolve Factory Licensing	
CAD Software	Not Included
Cloud Services	Not Included

# Evolve Creator – BASIC BUNDLE

## Build Processor

- Slicing parameters
- Slicing status

## Content Viewer

- Sliced image
- Printed part

## Job Ticket Portal

- Meta-Data
- Job configuration

Build Processor

Image View

Job Ticket

### Job Ticket Editor

Created	Due	Job Name	Initials	ID	JobId	Printer	Job Config	Num Parts	State
2020/12/01 12:26	2020/12/02 08:56	BP/BP - 595x270x4mm_Slab	mb	DEV-00262.3	1606847236	A4	Job 110C Const Bulk_M...	1	Aborted
2020/12/01 11:33	2020/12/02 08:56	BP/BP - 595x270x4mm_Slab	mb	DEV-00260.3		A4	Job 120C Const Bulk_M...	1	Job Queue
2020/12/01 11:32	2020/12/02 08:56	BP/BP - 595x270x4mm_Slab	mb	DEV-00257.3	1606933469	A4	Job 150C Const Bulk_M...	1	Printing
2020/12/01 11:32	2020/12/02 08:56	BP/BP - 595x270x4mm_Slab	mb	DEV-00258.3		A4	Job 140C Const Bulk_M...	1	Job Queue
2020/12/01 11:32	2020/12/02 08:56	BP/BP - 595x270x4mm_Slab	mb	DEV-00259.3		A4	Job 130C Const Bulk_M...	1	Job Queue
2020/11/30 14:19	2020/12/01 12:42	AE/Lucent-FTCL 1_14um	mb	AE-00049.3	1606767942	A4	Job 135C Const Bulk_M...	1	Printing C...
2020/11/30 12:42	2020/12/01 12:42	AE/Lucent-FTCL 2_13um	mb	AE-00048.3	1606765348	A4	Job 135C Const Bulk_M...	1	Aborted
2020/11/30 09:22	2020/12/01 09:13	BP/BP - FTCL_DOE_Build_043Air_13um	mb	DEV-00250.3		A4	FTCL_Run 3	1	Job Queue
2020/11/30 09:22	2020/12/01 09:13	BP/BP - FTCL_DOE_Build_043Air_13um	mb	DEV-00251.3		A4	FTCL_Run 4	1	Job Queue
2020/11/30 09:22	2020/12/01 09:13	BP/BP - FTCL_DOE_Build_043Air_13um	mb	DEV-00252.3		A4	FTCL_Run 5	1	Job Queue
2020/11/30 09:22	2020/12/01 09:13	BP/BP - FTCL_DOE_Build_043Air_13um	mb	DEV-00253.3		A4	FTCL_Run 6	1	Job Queue
2020/11/30 09:22	2020/12/01 09:13	BP/BP - FTCL_DOE_Build_043Air_13um	mb	DEV-00254.3		A4	FTCL_Run 7	1	Job Queue
2020/11/30 09:22	2020/12/01 09:13	BP/BP - FTCL_DOE_Build_043Air_13um	mb	DEV-00255.3		A4	FTCL_Run 8	1	Job Queue
2020/11/30 09:21	2020/12/01 09:13	BP/BP - FTCL_DOE_Build_043Air_13um	mb	DEV-00248.3		A4	FTCL_Run 1	1	Job Queue
2020/11/30 09:21	2020/12/01 09:13	BP/BP - FTCL_DOE_Build_043Air_13um	mb	DEV-00249.3		A4	FTCL_Run 2	1	Job Queue
2020/11/05 15:51	2020/9/23 12:55	BP/BP - Evolve_Angled_DogBones_C...	dg	DEV-00241.3		SIM1	2 engine	1	Job Queue
2020/11/04 16:05	2020/11/05 15:55	BP/BP - 595x270x4mm_Slab_BS Prep	mb	DEV-00240.3		A3	Test BS Prep	1	Job Queue
2020/11/04 16:04	2020/11/05 15:55	BP/BP - 595x270x4mm_Slab_BS Prep	mb	DEV-00236.3		A3	Test BS Prep	1	Job Queue
2020/11/04 16:04	2020/11/05 15:55	BP/BP - 595x270x4mm_Slab_BS Prep	mb	DEV-00237.3		A3	Test BS Prep	1	Job Queue
2020/11/04 16:04	2020/11/05 15:55	BP/BP - 595x270x4mm_Slab_BS Prep	mb	DEV-00238.3		A3	Test BS Prep	1	Job Queue

Total Records 33 of 33

Hide DetailsShow WeekShow Done Tickets

Due Date

12/2/2020

ID

Initials

zeiter

State

Customer

Target Printer

Comment

Number of Parts

1

Job Config

Support Type

Folder

Post Process Machine

Job

Post Process Options

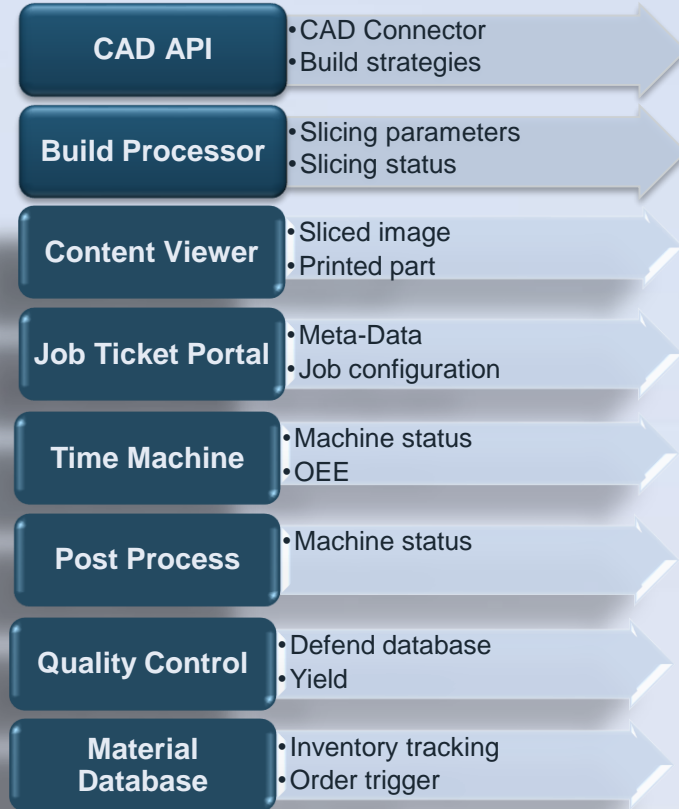
Clone

New

Delete



# Evolve Creator – THE INTEGRATED BUNDLE



Creator

### Job Ticket Editor

Created	Due	Job Name	Initials	ID	JobId	Printer	Job Config	Num Parts	State
Search...	Search...	Search...	Search	Search...	Search...	Search...	Search...	Search...	Search...
2020/12/01 12:26	2020/12/02 08:56	BP/BP - 595x270x4mm_Slab	mb	DEV-00262.3	1606847236	A4	Job 110C Const Bulk_M...	1	Aborted
2020/12/01 11:33	2020/12/02 08:56	BP/BP - 595x270x4mm_Slab	mb	DEV-00260.3		A4	Job 120C Const Bulk_M...	1	Job Queue
2020/12/01 11:32	2020/12/02 08:56	BP/BP - 595x270x4mm_Slab	mb	DEV-00257.3	1606933469	A4	Job 150C Const Bulk_M...	1	Printing
2020/12/01 11:32	2020/12/02 08:56	BP/BP - 595x270x4mm_Slab	mb	DEV-00258.3		A4	Job 140C Const Bulk_M...	1	Job Queue
2020/12/01 11:32	2020/12/02 08:56	BP/BP - 595x270x4mm_Slab	mb	DEV-00259.3		A4	Job 130C Const Bulk_M...	1	Job Queue
2020/11/30 14:19	2020/12/01 12:42	AE/Lucent-FTCL 1_14um	mb	AE-00049.3	1606767942	A4	Job 135C Const Bulk_M...	1	Printing C...
2020/11/30 12:42	2020/12/01 12:42	AE/Lucent-FTCL 2_13um	mb	AE-00048.3	1606765348	A4	Job 135C Const Bulk_M...	1	Aborted
2020/11/30 09:22	2020/12/01 09:13	BP/BP - FTCL DOE_Build_043Air_13um	mb	DEV-00250.3		A4	FTCL_Run 3	1	Job Queue
2020/11/30 09:22	2020/12/01 09:13	BP/BP - FTCL DOE_Build_043Air_13um	mb	DEV-00251.3		A4	FTCL_Run 4	1	Job Queue
2020/11/30 09:22	2020/12/01 09:13	BP/BP - FTCL DOE_Build_043Air_13um	mb	DEV-00252.3		A4	FTCL_Run 5	1	Job Queue
2020/11/30 09:22	2020/12/01 09:13	BP/BP - FTCL DOE_Build_043Air_13um	mb	DEV-00253.3		A4	FTCL_Run 6	1	Job Queue
2020/11/30 09:22	2020/12/01 09:13	BP/BP - FTCL DOE_Build_043Air_13um	mb	DEV-00254.3		A4	FTCL_Run 7	1	Job Queue
2020/11/30 09:22	2020/12/01 09:13	BP/BP - FTCL DOE_Build_043Air_13um	mb	DEV-00255.3		A4	FTCL_Run 8	1	Job Queue
2020/11/30 09:21	2020/12/01 09:13	BP/BP - FTCL DOE_Build_043Air_13um	mb	DEV-00248.3		A4	FTCL_Run 1	1	Job Queue
2020/11/30 09:21	2020/12/01 09:13	BP/BP - FTCL DOE_Build_043Air_13um	mb	DEV-00249.3		A4	FTCL_Run 2	1	Job Queue
2020/11/05 15:51	2020/9/23 12:55	BP/BP - Evolve_Angled_DogBones_C...	dg	DEV-00241.3		SIM1	2 engine	1	Job Queue
2020/11/04 16:05	2020/11/05 15:55	BP/BP - 595x270x4mm_Slab_BS Prep	mb	DEV-00240.3		A3	Test BS Prep	1	Job Queue
2020/11/04 16:04	2020/11/05 15:55	BP/BP - 595x270x4mm_Slab_BS Prep	mb	DEV-00236.3		A3	Test BS Prep	1	Job Queue
2020/11/04 16:04	2020/11/05 15:55	BP/BP - 595x270x4mm_Slab_BS Prep	mb	DEV-00237.3		A3	Test BS Prep	1	Job Queue
2020/11/04 16:04	2020/11/05 15:55	BP/BP - 595x270x4mm_Slab_BS Prep	mb	DEV-00238.3		A3	Test BS Prep	1	Job Queue
Total Records 33 of 33									
<a href="#">Hide Details</a> <a href="#">Show Week</a> <a href="#">Show Done Tickets</a>									

Due Date

12/2/2020

ID

Initials

zeiter

State

Customer

Target Printer

Comment

Number of Parts

1

Job Config

Support Type

Folder

Post Process Machine

Job

Post Process Options

Clone

New

Delete



# Evolve Creator RESEARCH BUNDLE



**Creator**

**Job Ticket Editor**

Created	Due	Job Name	Initials	ID	JobId	Printer	Job Config	Num Parts	State
2020/12/01 12:26	2020/12/02 08:56	BP/BP - 595x270x4mm_Slab	mb	DEV-00262.3	1606847236	A4	Job 110C Const Bulk_M...	1	Aborted
2020/12/01 11:33	2020/12/02 08:56	BP/BP - 595x270x4mm_Slab	mb	DEV-00260.3		A4	Job 120C Const Bulk_M...	1	Job Queue
2020/12/01 11:32	2020/12/02 08:56	BP/BP - 595x270x4mm_Slab	mb	DEV-00257.3	1606933469	A4	Job 150C Const Bulk_M...	1	Printing
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2020/12/01 11:32	2020/12/02 08:56	BP/BP - 595x270x4mm_Slab	mb	DEV-00259.3		A4	Job 130C Const Bulk_M...	1	Job Queue
2020/11/30 14:19	2020/12/01 12:42	AE/Lucent-FTCL 1_14um	mb	AE-00049.3	1606767942	A4	Job 135C Const Bulk_M...	1	Printing C...
2020/11/30 12:42	2020/12/01 12:42	AE/Lucent-FTCL 2_13um	mb	AE-00048.3	1606765348	A4	Job 135C Const Bulk_M...	1	Aborted
2020/11/30 09:22	2020/12/01 09:13	BP/BP - FTCL_DOE_Build_043Air_13um	mb	DEV-00250.3		A4	FTCL_Run 3	1	Job Queue
2020/11/30 09:22	2020/12/01 09:13	BP/BP - FTCL_DOE_Build_043Air_13um	mb	DEV-00251.3		A4	FTCL_Run 4	1	Job Queue
2020/11/30 09:22	2020/12/01 09:13	BP/BP - FTCL_DOE_Build_043Air_13um	mb	DEV-00252.3		A4	FTCL_Run 5	1	Job Queue
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2020/11/30 09:22	2020/12/01 09:13	BP/BP - FTCL_DOE_Build_043Air_13um	mb	DEV-00254.3		A4	FTCL_Run 7	1	Job Queue
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2020/11/30 09:21	2020/12/01 09:13	BP/BP - FTCL_DOE_Build_043Air_13um	mb	DEV-00248.3		A4	FTCL_Run 1	1	Job Queue
2020/11/30 09:21	2020/12/01 09:13	BP/BP - FTCL_DOE_Build_043Air_13um	mb	DEV-00249.3		A4	FTCL_Run 2	1	Job Queue
2020/11/05 15:51	2020/9/23 12:55	BP/BP - Evolve_Angled_DogBones_C...	dg	DEV-00241.3		SIM1	2 engine	1	Job Queue
2020/11/04 16:05	2020/11/05 15:55	BP/BP - 595x270x4mm_Slab_BS Prep	mb	DEV-00240.3		A3	Test BS Prep	1	Job Queue
2020/11/04 16:04	2020/11/05 15:55	BP/BP - 595x270x4mm_Slab_BS Prep	mb	DEV-00236.3		A3	Test BS Prep	1	Job Queue
2020/11/04 16:04	2020/11/05 15:55	BP/BP - 595x270x4mm_Slab_BS Prep	mb	DEV-00237.3		A3	Test BS Prep	1	Job Queue
2020/11/04 16:04	2020/11/05 15:55	BP/BP - 595x270x4mm_Slab_BS Prep	mb	DEV-00238.3		A3	Test BS Prep	1	Job Queue

Total Records 33 of 33

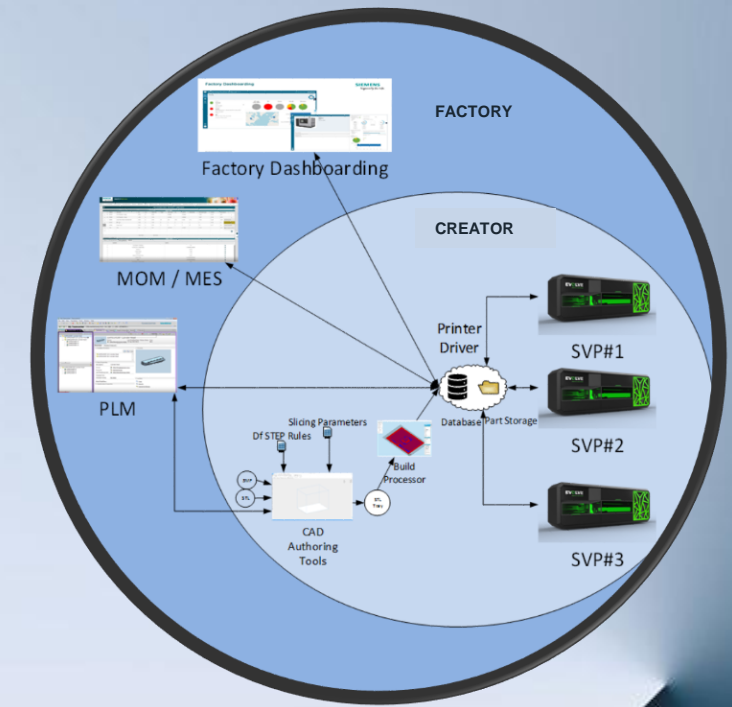
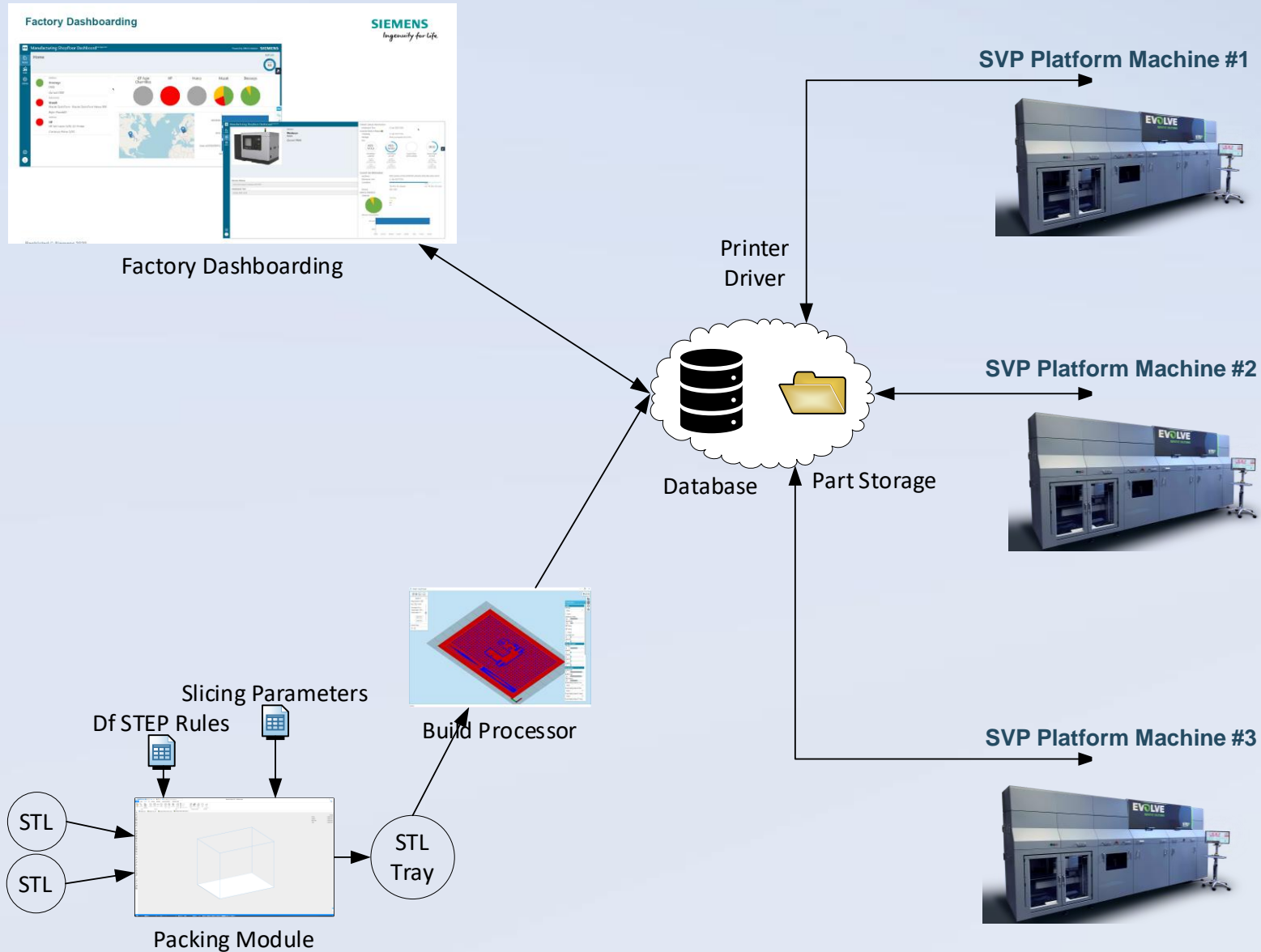
[Hide Details](#) [Show Week](#) [Show Done Tickets](#)

**Form Fields:**

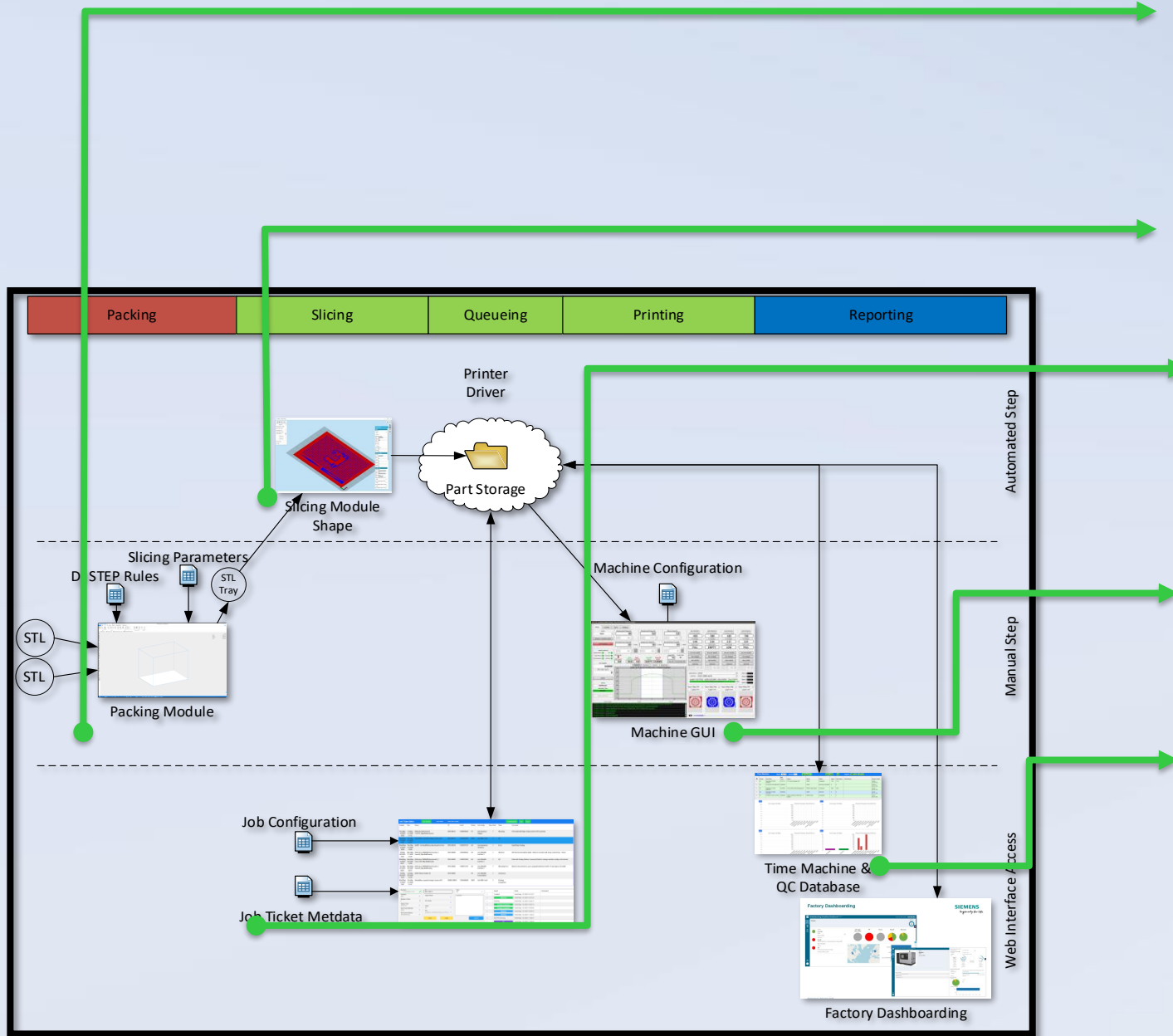
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- ID: [Empty]
- Initials: zeiter
- State: [Dropdown]
- Customer: [Dropdown]
- Target Printer: [Dropdown]
- Comment: [Text Area]
- Number of Parts: 1
- Job Config: [Dropdown]
- Support Type: [Dropdown]
- Folder: [Dropdown]
- Post Process Machine: [Dropdown]
- Job: [Dropdown]
- Post Process Options: [Dropdown]

[Clone](#) [New](#) [Delete](#)

# CONNECTIVITY



# WORKFLOW



## Packing module

- Design for STEP rules
- Orientation and packing
- Slicing parameters

## Slicing module is automatic

## Job Ticket Portal

- Metadata
- Job config
- Target STEP machine

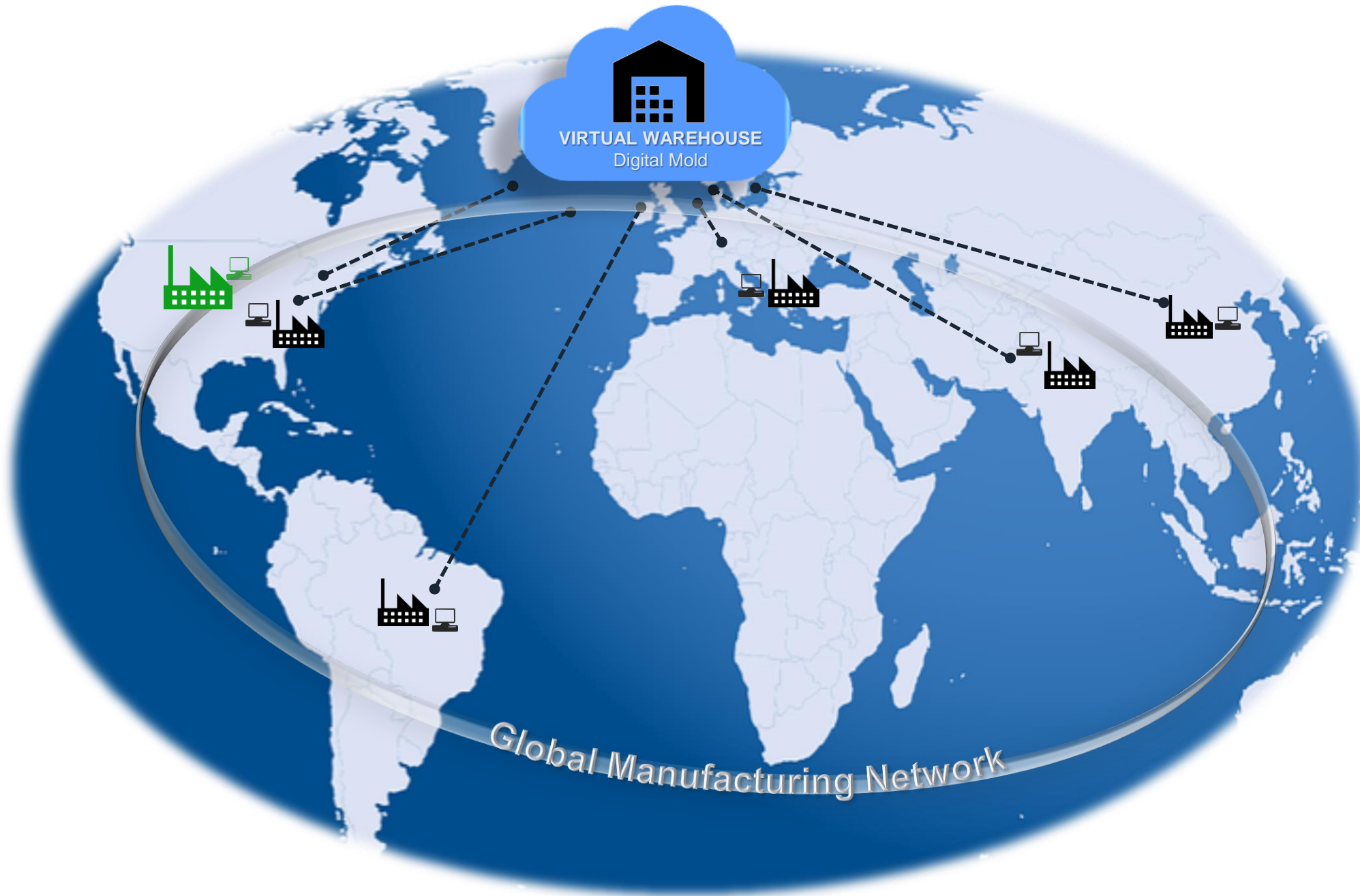
## Machine GUI

- Machine config
- Start job

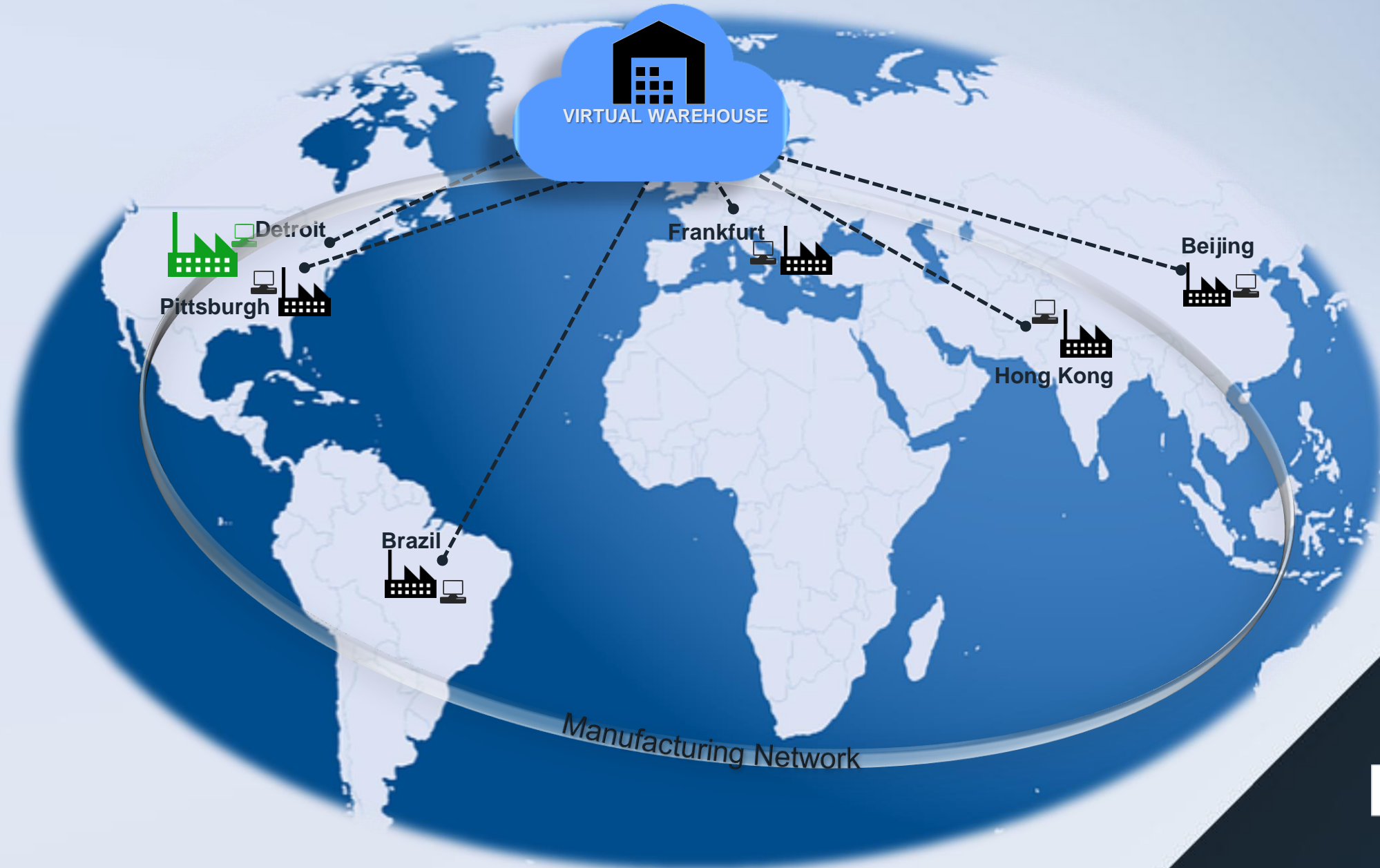
## Time Machine

- Monitor machine performance
- QC Database





# MANUFACTURING NETWORK & THE VIRTUAL WAREHOUSE





## BENEFITS OF THE VIRTUAL WAREHOUSE

- Cost reductions (mold creation, warehousing, transportation, etc.)
- Greater visibility
- Automated processes
- Reduced manufacturing costs
- Reduced inventory
- Scalability
- Standardized processes
- Digital inventory
- Better supply chain management
- Analytics



# The Journey to Smart Manufacturing

