

SINUMERIK Integrate

... předchozí platforma pro chytrou továrnu

Mcenter

... aktuální platforma pro chytrou továrnu s rozšířeným rozsahem a strategií:

- ✓ otevřená
- ✓ modulární
- ✓ pro všechny obráběcí stroje

Manage MyResources /Tools

Machine client

MMRT

02.12.19
15:24

| Werkzeugübersicht | | | | | | Tausch / Prüfen |
|-------------------|-----|---------------------|--------------|----------------|-----------|-------------------|
| Platz | Typ | ID der Instanzdaten | Werkzeugname | Rest-standzeit | Duplo-Nr. | |
| 1/18 | | 200210-002 | 200210 | 1/500 | 1 | 1:1-Tausch |
| 1/20 | | 400110-003 | 400110 | 300/300 | 1 | |
| 1/19 | | 555555-030 | 555555 | 1200/1200 | 2 | Entladen |
| | | | | | | Transfer-liste |
| | | | | | | Werkzeug-details |
| | | | | | | Schneiden-details |
| | | | | | | |
| | | | | | | Sortieren |

Interne Werkzeuge

Externe Werkzeuge

Transfer-liste

Tool life cycle

Manage MyResources /Tools (MMR /Tools) is an integrated software solution for tool cycle mapping – from setting, through tool and component storage, to the machine.


The MMR client-server solution provides intelligent functions that improve efficiency in the factory-wide tool and component management.

It helps the operator to determine the tool requirement for production orders, mirrors the tool requirement on the magazine assignment of the machine and supports tool setup.

MMR enables resource optimization and reduction of machine downtimes.

Manage MyResources /Programs

Machine client

| | | | | | | | |
|------------------------------|---|---------------|-------------------|--|-------------------------|--|--|
| MMRP |  | JOG | 02.10.19 10:27 | | | | |
| Alle Pakete werden angezeigt | | | | | Programm herunterlade | | |
| Filter: | | | | | Programm hochladen | | |
| Paketnamen | Paketstatus | Revisions No. | Größe [byte] | | Kommentare ansehen/hinz | | |
| test1 | Released | 1 | 73514 | | | | |
| TestEWN | Released | 2 | 73533 | | | | |
| | | | | | Aktualisierung | | |
| Verfügbare Pakete | Geladene Pakete | | | | | | |

NC package handling

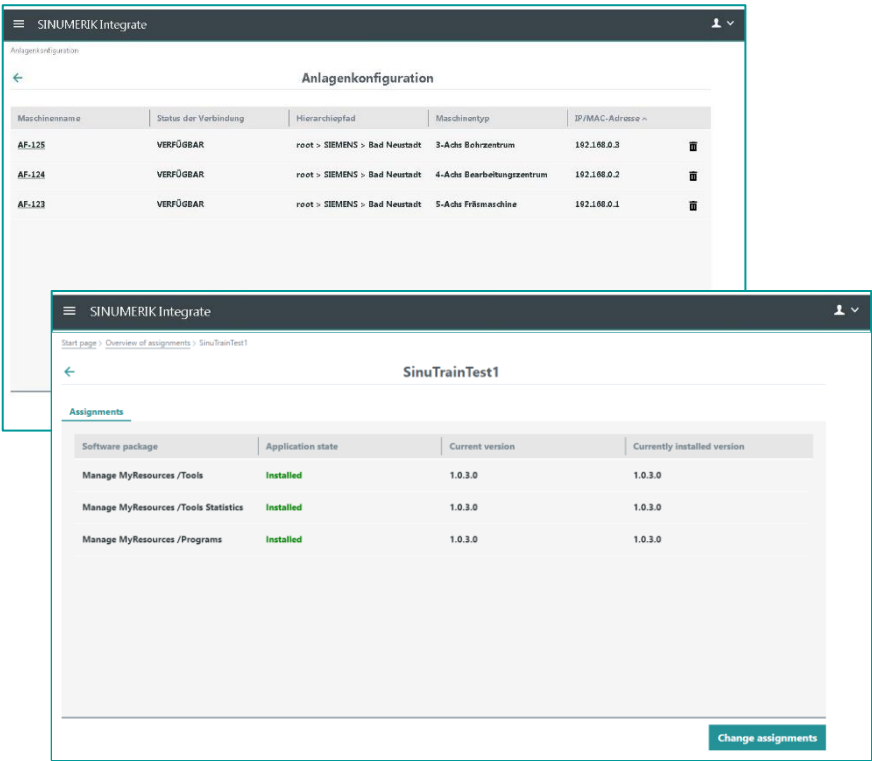
The product Manage MyResources /Programs (MMR /Programs) handles the transfer of NC programs to and from CNC-controlled machines.

The product manages a machine assignment and a status of NC packets to ensure that the correct NC programs are always available on the defined machines.

Furthermore, a comment function is available. This enables a direct exchange of information between machine operator and programming.

Mcenter – Providing minimized administrative effort to run digitalization apps in end customers environment

Connecting machines once



Single administration

Mcenter provides central administrative functionalities for all applications used with and on the connected machine tools.

This starts with a single setup, wherein all the applications to be used can be chosen to be installed. With a single machine onboarding application, this onboarding process is done once for all applications. Also, a single user management over all applications is available.

The most easy way to manage the installation, update and remove of applications used at CNC-machines is provided by the application management. Updates can be installed remotely at selected machines, which makes the update process significantly easier and more efficient and minimizes the downtimes resulting from application updates.

Mcenter – Top Highlights

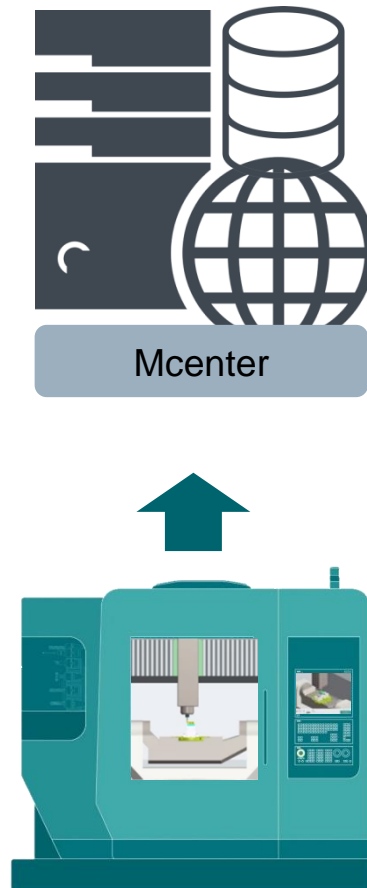
... Easy and fast machine onboarding valid for all applications



... Easy integration into existing IT landscape



... Web-based UI for work spaces outside the machine



... Brownfield support of SINUMERIK Controllers and support of 3rd party controllers



... State-Of-The Art Security



... Centralized user management for all applications



... Easy and time-saving update process



Manage MyResources /Tools – Top Highlights

Tool management provides ...

... Overview of the location and the condition of all tools and components



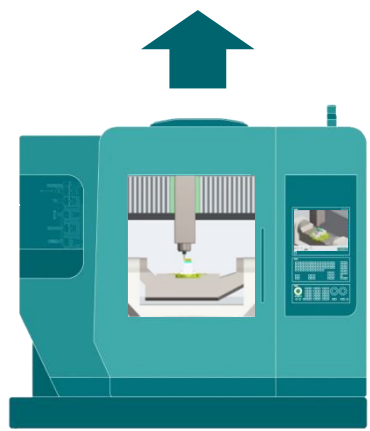
... Dialog-assisted loading and unloading of tools



... Recording of the tool history



| Platz | Typ | Identifikation der Instanznummer | Werkzeugname | Reststandzeit | Dupl.Nr. | Tausch / Prüfen |
|-------|-----|----------------------------------|--------------|---------------|----------|-----------------|
| 1/9 | | 40019-001 | 400110 | 0/300 | 1 | 1-1-Tausch |
| 1/4 | | 100410-001 | 100410 | 00/1200 | 1 | |
| 1/5 | | 200110-001 | 200110 | 150/500 | 1 | |
| 1/7 | | 200210-001 | 200210 | 200/500 | 1 | Entladen |
| 1/8 | | 200310-001 | 200310 | 352/500 | 1 | |
| 1/2 | | 100200-001 | 100200 | 302/500 | 1 | |
| 1/6 | | 200120-001 | 200120 | 601/700 | 1 | |
| 1/3 | | 100310-001 | 100310 | 607/700 | 1 | |
| 1/21 | | 100230-007 | 100230 | 990/1100 | 2 | |
| 1/1 | | | CUTTER 4 | -/- | 1 | Werkzeugdetails |



... Openness APIs



... Planning of tools



... External identification



... Handling of all tool data



Manage MyResources /Programs – Top Highlights

Program management provides ...

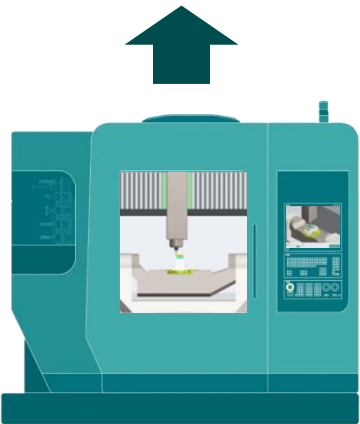
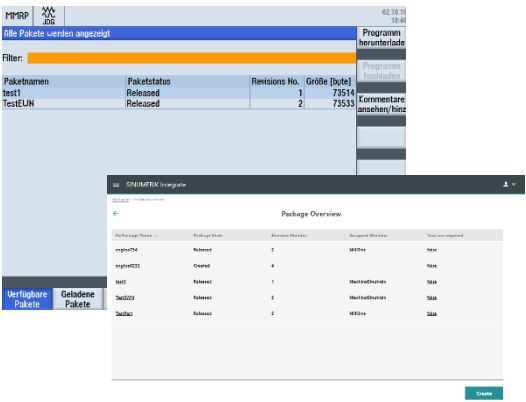
... Overview of all available NC work packages



... Client for the machine



... Openness APIs



... Secure data transfer



... Handling of NC packages via web UI



Systémové požadavky

Mcenter server

Windows server 2016 standard
nebo
Windows server 2019 standard

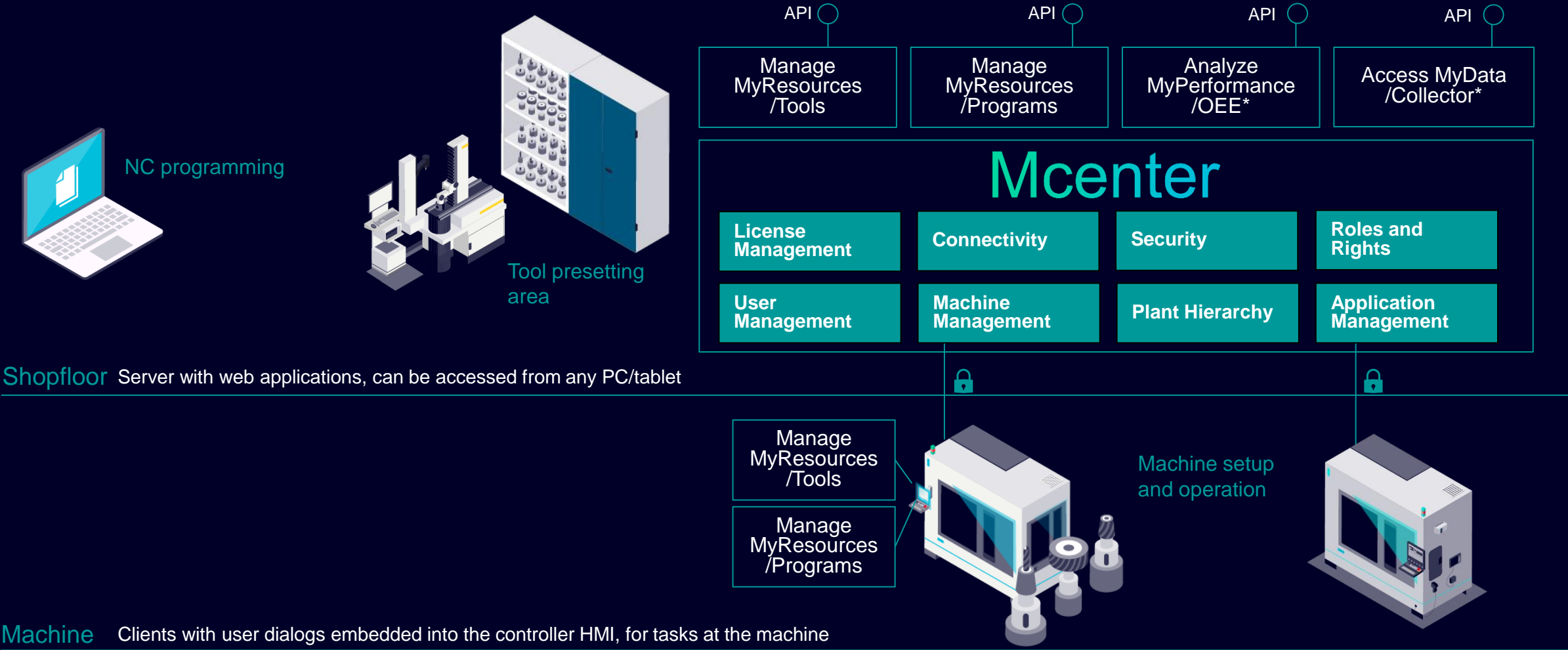
Database server

Windows server 2016 standard
nebo
Windows server 2019 standard
SQL server 2016 SP2 standard
nebo
SQL server 2019 standard

Remote PC

Google chrome
Mozilla Firefox

The platform for your efficient shopfloor



*customer-specific release

Product overview

Compatibility with SINUMERIK controllers

| Version 5.2.1.0 | | SW 4.5 SP 4-6 | SW 4.7 SP 2-7 | SW 4.8 SP 2-7 | SW 4.93 | SW 4.94 | SW 4.95, 4.95 SP1-2 | | SW 6.4.28.00 (NT/XP) | SW 7.6.2.12 (XP SP3) | HMI Adv. Retrofit for Win10 from 7.7.1.0 | | SW 4.5 SP 4-6 | SW 4.7 SP2-7 | SW 4.8 SP2-7 | SW 4.93 | SW 4.94 | SW 4.95, 4.95 SP1-2 | | SW 6.14 | SW 6.15, 6.15 SP1-2 | SW 6.20 |
|------------------------------------|----------------------------------|------------------|------------------|------------------|---------|---------|---------------------------|-------------------------------------|-------------------------|-------------------------|---|--------------------------------|------------------|-----------------|-----------------|---------|---------|---------------------------|----------------------------|---------|---------------------------|---------|
| Manage MyResources /Tools | SINUMERIK 840DsI with Operate | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | SINUMERIK 840D with HMI-Advanced | ✓ | ✓ | ✓ | SINUMERIK 828D with Operate | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | SINUMERIK ONE with Operate | ✓ | ✓ | ✓ |
| Manage MyResources /Programs | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Analyze MyPerformance /OEE | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Access MyData /Collector | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |



 Compatibility checked

Product overview

Compatibility with non-SINUMERIK controllers

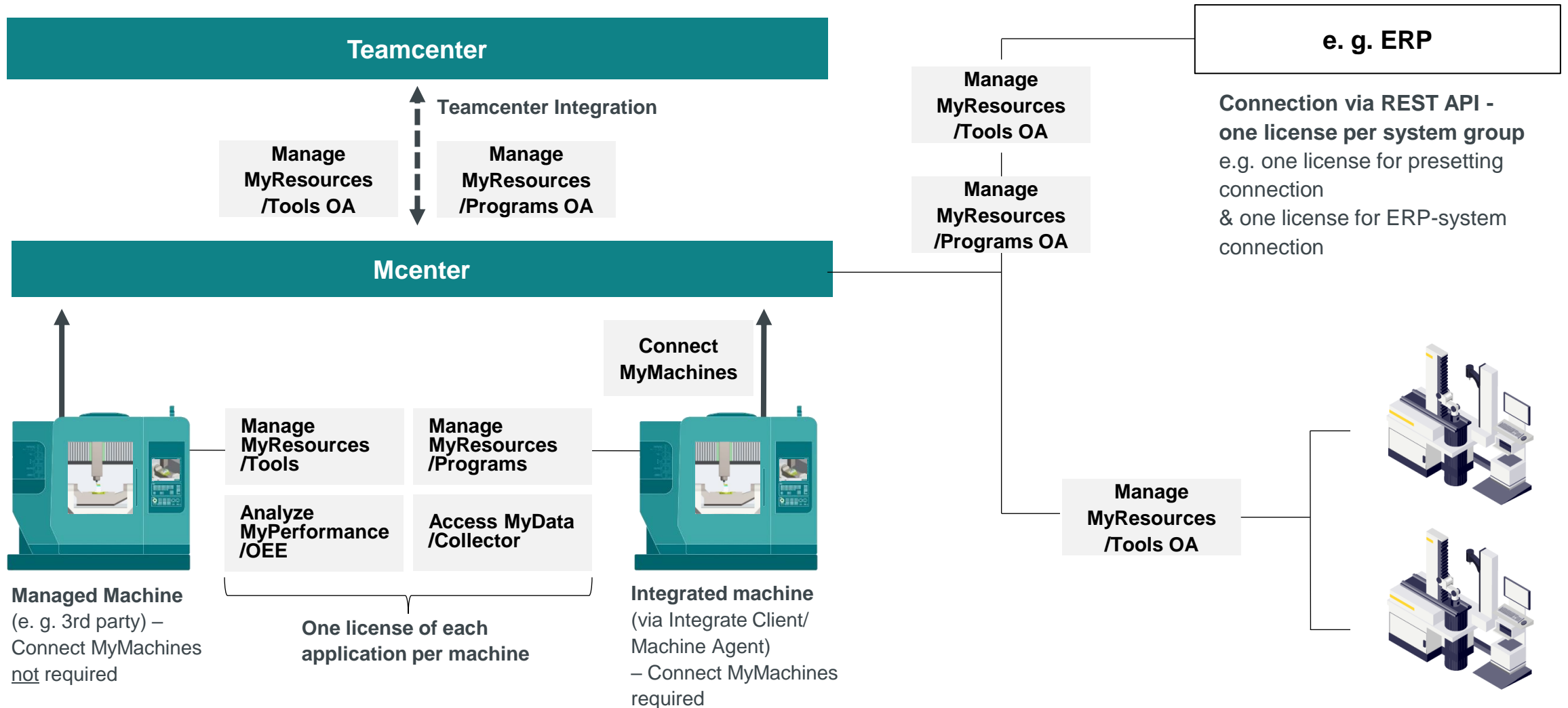
With Machine Agent core version 1.5.5

| Version 5.2.1.0 | Fanuc 0i, 30i-B, 31i-B | Heidenhain iTNC530 | Mitsubishi ¹ Model Series 800M | OPC UA | MT Connect | Rest (http) |
|---------------------------------|---------------------------|-----------------------|--|--------|------------|-------------|
| Manage MyResources/ Tools | | | | | | |
| Manage MyResources /Programs | ✓ | | | | | |
| Analyze MyPerformance/ OEE | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Access MyData /Collector | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |


 Compatibility checked

¹additional components needed – please get in touch with Siemens

Mcenter – License overview



Manage MyResources - Components to purchase for Integrated & Connected Machines

| Name | | Type | Article no. |
|---------------------------------|---------------------------------------|--|-------------|
| Connect MyMachines | Required for each integrated machine. | Perpetual License w/ Maintenance or Subscription | MCS3150 |
| Manage MyResources /Tools | Required per machine. | | MCS5140 |
| Manage MyResources /Programs | Required per machine. | | MCS5180 |
| Manage MyResources /Tools OA | Required per system group. | | MCS5150 |
| Manage MyResources /Programs OA | Required per system group. | | MCS5190 |