The perfect combination: TIA and the Digital Enterprise Software Suite

• Collaboration and standardization in the value chain
• Complete flexibility for volatile markets
• Reduced time to market due to shorter innovation cycles, even for more complex products
• Larger data volumes
• More complex processes
• Enhanced productivity
• Volatile markets
• Individualized mass production
• High productivity
• Flexible production
• Shorter innovation time to market
• Energy efficiency and resource efficiency
• Increasing transparency
• Optimized production
• Closed loop quality
• Increased traceability

This means a flexible production system with complete transparency and optimization of assets throughout the entire production value chain. Siemens shows the way by combining Totally Integrated Automation (TIA) with the Digital Enterprise Software Suite.

On the way to the Industrial Enterprise – with Siemens

Siemens shares the way by combining Totally Integrated Automation (TIA) with the Digital Enterprise Software Suite.

On the way to Industrie 4.0

Siemens is on the way to Industrie 4.0. The Internet is now a part of production reality – while the Internet already led to connectivity, the Internet of Things (IoT) goes one step further by combining connectivity with a cloud-based data platform. The Digital Enterprise Software Suite comprises the entire industrial production value chain from product planning to production and execution. The scenarios inside these pages show you how you can optimize your repair and maintenance. MindSphere – Siemens Cloud for Industry – for example, by analyzing data in a comprehensive way and providing the necessary connection to our Totally Integrated Automation (TIA) portfolio. To learn more about how you can enjoy the benefits of worldwide networking for your company, visit our reference center: usa.siemens.com/automation/

On the way to the Digital Enterprise

Siemens is on the way to the Digital Enterprise. The Digital Enterprise comprises the entire industrial production value chain from product planning to production and execution. The Digital Enterprise Software Suite also provides an optimizing platform for the Digital Enterprise – with the Digital Enterprise Software Suite.

• Improved quality assurance
• Integrated design
• Improved implementation
• Efficient integration
• Increased efficiency
• Part and product production management
• Full process transparency
• Integrated production management
• Improved production

On the way to Industrie 4.0

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On the way to Industrie 4.0

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Totally Integrated Automation in the Digital Enterprise

These scenarios will start you on your way to Industrie 4.0 today!

1. **Automatic execution of engineering tasks**
   - Product design
   - Configuration
   - Simulation
   - Testing
   - Debugging

2. **Product lifecycle management connection to automation engineering**
   - Access to TIA Portal in a local cloud
   - Reduced maintenance outlay for software installations
   - Changes performed directly on site on the machine, even without a programming device
   - Secure access to the machine's automation components

3. **Efficient cloud-based engineering**
   - Efficient cloud-based engineering
   - Access to TIA Portal in a local cloud
   - Reduced maintenance outlay for software installations
   - Changes performed directly on site on the machine, even without a programming device
   - Secure access to the machine's automation components

4. **Virtual commissioning**
   - Virtual commissioning
   - Access to TIA Portal in a local cloud
   - Reduced maintenance outlay for software installations
   - Changes performed directly on site on the machine, even without a programming device
   - Secure access to the machine's automation components

5. **Integrated Energy Management**
   - Energy Analytics
   - Plant security
   - Security threat requires action
   - Network security
   - System integrity
   - Engineering
   - Energy metering and recording
   - Energy Manager PRO SCADA Mobile terminals

6. **Data acquisition for Cloud Services**
   - Data acquisition for Cloud Services
   - Integrated energy management from planning to plant operation
   - Intelligent linking of energy and production data
   - Automatic generation of energy management program
   - Seamless connection to the energy management system

7. **Machine and plant security**
   - Machine and plant security
   - Global analysis of data by using MindSphere – Siemens Cloud for Industry
   - Secure data connection between controller and MindSphere – Siemens Cloud for Industry
   - Easy configuring of connection
   - Performance monitoring of globally distributed machines

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**Our offering:**
- TIA Portal
  - usa.siemens.com/tia-portal
- Teamcenter
  - siemens.com/teamcenter
- TIA Portal / Teamcenter Gateway
  - usa.siemens.com/tia-portal
- TIA Portal / PLCSIM Advanced
  - usa.siemens.com/tia-portal
- TIA Portal / Cloud Connector
  - usa.siemens.com/tia-portal
- Totally Integrated Automation
  - usa.siemens.com/tia
- Plant Security Service
  - siemens.com/plant-security-services
- MindSphere
  - siemens.com/mindsphere
- SIMATIC Controller and Industrial PCs
  - usa.siemens.com/automation
- SIMATIC Energy Suite
  - siemens.com/energysuite
- SIMATIC Energy Manager PRO
  - siemens.com/energymanagerpro