



# Rethinking ITIL<sup>©</sup>: Why Manufacturing 4.0 Requires a New Approach to Service Management

A Rolling Uphill White Paper

## ABSTRACT

As industries embrace the transformative potential of Manufacturing 4.0, characterized by advanced technologies, real-time data, and seamless integration across functions, traditional IT service management frameworks like ITIL may no longer fully serve the needs of modern manufacturing environments.

While ITIL has been instrumental in structuring IT operations, its rigid, IT-centric practices can inhibit the flexibility, innovation, and cross-functional collaboration that Manufacturing 4.0 demands.

This white paper explores the limitations of ITIL in the context of Manufacturing 4.0 and presents the USM method as a more adaptable and integrative approach to service management that aligns with the goals of this industrial revolution.

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*<https://usm-portal.com/?lang=en>*

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# Preface

More information about the USM method may be found at the [USM Portal](#) and/or the [USM Wiki](#).

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## Get in control of your service delivery with USM

Few things are as variable as delivering services. However, managing service delivery is universal: whether you manage a facility task domain such as ICT, Building Management, Human Resources, or Security, or a primary task domain such as a municipality or a healthcare institution, it is and remains service delivery.

And that requires cooperation between parties and some degree of standardization, so they can act as links in supply chains and networks - solving the complexity and interoperability challenges with an Enterprise Service Management strategy.

But how do you get in control of that integrated service delivery, in a quick, simple and sustainable way? How do you turn your reality from the upper chain to the lower chain?



[Source: The USM Portal]

# Introduction

Manufacturing 4.0, often referred to as the Fourth Industrial Revolution, represents a paradigm shift in how manufacturing processes are managed and executed. It integrates advanced technologies like AI, IoT, robotics, and data analytics, enabling real-time decision-making, enhanced productivity, and seamless integration across the entire value chain.

However, as manufacturers move towards this new model, they encounter challenges related to service management—challenges that traditional frameworks like ITIL may not be well-equipped to address.

## The Limitations of ITIL in Manufacturing 4.0

### Rigid Process Structures

ITIL's emphasis on predefined processes and extensive change management protocols can slow down the innovation cycles critical for Manufacturing 4.0. The need for rapid adaptation and agility in manufacturing environments contrasts with ITIL's structured approach, potentially creating bottlenecks and inhibiting responsiveness to market and technological changes.

### Siloed Approach to Service Management

ITIL's focus on IT-specific practices can lead to silos within organizations, where IT operates independently from other critical functions like manufacturing, logistics, and supply chain management. This siloed approach is at odds with Manufacturing 4.0's emphasis on horizontal integration, where collaboration across all functions is essential for achieving operational excellence.

### Overemphasis on IT-Specific Metrics

ITIL's metrics, while important for IT operations, may not align with the key performance indicators (KPIs) that drive success in manufacturing, such as production efficiency, quality control, and supply chain agility. This misalignment can result in IT efforts that do not fully support or even conflict with manufacturing objectives.

### Inhibited Collaboration and Innovation

ITIL's focus on stability and control can create a risk-averse culture, limiting the experimentation and innovation required in Manufacturing 4.0. The rapid technological advancements characteristic of this revolution necessitate a more flexible and forward-thinking approach to service management.

## **The USM Method: A Better Fit for Manufacturing 4.0**

The USM (Unified Service Management) method offers a universal management system that is both flexible and integrative, making it a more suitable alternative to ITIL in the context of Manufacturing 4.0. Unlike ITIL, USM is not tied to specific IT practices but provides a framework that can accommodate various practices across all business functions.

### **Flexibility and Adaptability**

USM's structure allows organizations to adapt their service management approach as new technologies and practices emerge, without being constrained by rigid processes.

### **Cross-Functional Integration**

USM supports the seamless integration of service management practices across different departments and functions, promoting the horizontal integration essential for Manufacturing 4.0.

### **Alignment with Business Goals**

USM aligns service management with overall business objectives, ensuring that IT efforts directly support manufacturing KPIs and contribute to the broader success of the organization.

### **Support for Innovation**

By providing a flexible management framework, USM fosters a culture of innovation and continuous improvement, which is crucial for staying competitive in a rapidly evolving manufacturing landscape.

## **Leveraging Existing ITIL Processes with the USM method**

It's important to clarify that advocating for the USM method in Manufacturing 4.0 does not mean discarding ITIL altogether. On the contrary, USM allows for the reuse and integration of existing ITIL processes that remain valid and effective within the organization.

## Reuse of Valid ITIL Processes

Many ITIL processes, particularly those related to incident management, change management, and service desk operations, are still highly relevant and valuable for managing IT services within a manufacturing environment. These processes can be seamlessly integrated into the USM framework, allowing organizations to build on the strengths of ITIL while benefiting from USM's flexibility and adaptability.

## Integration with Other Practice Guidance

In addition to ITIL, the USM method can incorporate other practice guidance relevant to Manufacturing 4.0, such as Lean, Six Sigma, and DevOps. This ability to integrate diverse practices within a single management system ensures that all aspects of the organization are aligned and working towards the same strategic goals.

## Customization and Evolution

As manufacturing environments evolve, so too can the service management practices within the USM framework. ITIL processes can be customized, adapted, or even replaced as needed, ensuring that the service management system remains relevant and effective in supporting the organization's objectives.

# The Critical Need for a Standard Link in the Service Supply Chain

In Manufacturing 4.0, where collaboration with external partners and suppliers is increasingly important, having a standard link across all actors in the service supply chain is critical. USM provides this standard link by offering a consistent framework that can be applied across the entire value chain, ensuring interoperability, data consistency, and coordinated risk management.

# Conclusion

As manufacturing organizations transition to Manufacturing 4.0, they must rethink their approach to service management. While ITIL has served as a foundational framework for IT operations, its limitations in the context of Manufacturing 4.0 suggest that more flexible and integrative methods like USM are needed.

Importantly, this shift does not mean discarding ITIL altogether; rather, it involves reusing and integrating existing ITIL processes within the broader, more adaptable structure provided by USM.

By adopting the USM method, manufacturers can better align their service management practices with the demands of this new industrial era, ensuring agility, innovation, and sustained competitive advantage.

## About the Author



John Worthington has had a 40-year IT career with more than two decades dedicated to service management.

He is an ITIL Expert (v3), an XLA Master and a **Certified USM Coach**. He is also an Authorized Affiliate of BeingFirst and can help change leaders with innovative methods for evolving human systems and performance through a Conscious Change Leadership approach.

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