

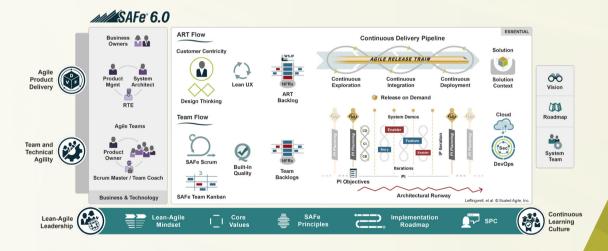
## **ESSENTIAL SAFe®**

The Scaled Agile Framework® (SAFe®) was designed to help Enterprises deliver value continuously and more efficiently on a regular and predictable schedule, making them more Agile in the marketplace and more competitive in their industry.

Over time, the Framework has grown to accommodate the full spectrum of complexity in software and systems development. From international bond trading and medical devices to memory chips and fighter aircraft, SAFe has proven to scale to all situations. But, with such a robust framework, the question becomes: how closely does an organization need to follow various SAFe practices to get the desired result?

In addition, we've observed that not every implementation realizes the full business benefits that others achieve. When diagnosing, we've found that the less successful Enterprises have skipped some of the most essential practices. It's easy to see how that can happen. After all, it's a big framework, how would an Enterprise know what's essential?

To that end, Essential SAFe is a subset that describes the minimal elements necessary for success. If you are incorporating these 10 critical success factors for each Agile Release Train (ART) in your portfolio, you're well on your way to realizing the full benefits of SAFe.





## ESSENTIAL SAFe®

### **Lean-Agile Principles**

SAFe practices are grounded in fundamental principles. That's why you can be confident that they apply well in your case. And if the practices don't directly apply, the underlying principles can guide you to make sure that they are moving on a continuous path to the "shortest sustainable lead time, with best quality and value to people and society."

### **Real Agile Teams and ARTs**

Real Agile Teams and Trains that are fully cross-functional have everything, and everyone, necessary to produce a working, tested increment of the Solution. They are self-organizing and self-managing, which enables value to flow more quickly, with a minimum of overhead. Product Management, System Arch, and Release Train Engineer provide content and technical authority, and an effective development process. Product Owners and Scrum Masters/Team Coaches help the Dev Teams meet their objectives. The Customer is integrally engaged throughout the development process.

### **Cadence and Synchronization**

Cadence provides a rhythmic pattern, the dependable heartbeat of the development process. It makes routine that which can be routine. Synchronization allows multiple perspectives to be understood and resolved at the same time. For example, synchronization is used to pull the disparate assets of a system together to assess Solution-level viability.

#### PI Planning

No event is more powerful in SAFe than Planning Interval (PI) Planning. It's the cornerstone of the PI, which provides the rhythm for the ART. When 100 or so people work together toward a common mission, vision, and purpose, it's amazing how much alignment and energy it creates. Gaining that alignment in just two days can save months of delays.

# **Customer Centricity, DevOps and Release on Demand**

DevOps provides the Culture, Automation, Lean-flow, Measurement, and Recovery (CALMR) capabilities to enable an Enterprise to bridge the gap between development and operations. Releasability focuses on the Enterprise's ability to deliver value to its Customers more often and according to the demand of the market. Together DevOps and releasability allow an organization to achieve better economic results by having more frequent releases and faster validation of hypotheses.

Without a shared understanding of these principles:
☐ There is no systematic way to adapt practices to specific context
☐ Business outcomes do not significantly improve
☐ Practices and measures that were once beneficial become problematic
Lean-Agile Mindset is unachievable
☐ Conflict and disagreement on processes and practices are difficult to resolve
Without real Agile Teams and Trains:
Responsibilities are unclear, delaying decision-making
Lack of cross-functional skills causes over-specialization and bottlenecks that inhibit flow
☐ Teams locally optimize and can't deliver end-to-end value
☐ No architectural and User Experience integrity; Solution Features and components evolve incompatibly
☐ Vision and requirements are not clear, and prioritization is extremely difficult

#### Without cadence and synchronization:

No steady development rhythm
Gradual decline into disorder and lack of predictability
Hard to schedule planning, retrospectives, demos, and other key events
Difficult to adjust to changing priorities
Teams are constantly overloaded

#### Without PI Planning:

Stakeholders, teams, and management are not aligned
Demand doesn't match capacity, no predictability, excess Work In Process (WIP)
Lack of trust between stakeholders and teams
Late discovery of dependencies causes delays
Low commitment, ownership, and employee engagement

#### Without Customer Centricity, DevOps and Release on Demand:

Lower Customer satisfaction and bad Customer experiences
Reduced deployment quality and high production defects
☐ Value delivery is seriously delayed; more frequent releases are not possible, increasing time-to-market
☐ Large batches of code are pushed to production, resulting in production errors and emergencies
Friction between development and operations limits collaboration, learning, and cultural change

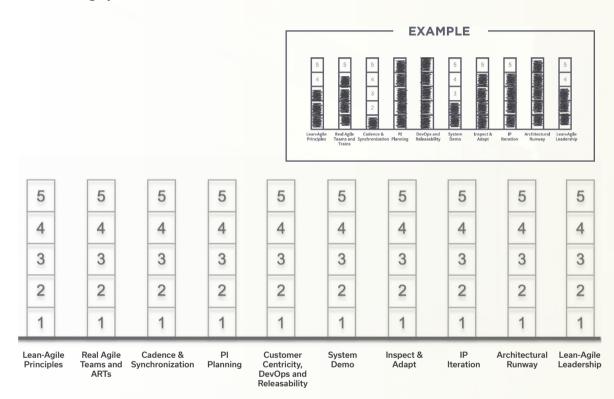
#### Without System Demo: System Demo ☐ Teams are 'sprinting,' but the system is not The primary measure of the ART's progress is the ☐ Chronic lack of trust between stakeholders and teams objective evidence provided by a working Solution in ☐ Lack of feedback to Iterate to the right solution the System Demo. Every two weeks, the full system-False progress and poor quality the integrated work of all teams on the train for that ☐ 'Waterfalled Pls'—problems and risks are discovered too late Iteration—is demoed to the train's stakeholders. Stakeholders provide the feedback the train needs to stay on course and take corrective action. Without Inspect & Adapt: Inspect & Adapt ☐ No systemic improvement, problems persist Inspect & Adapt (I&A) is a significant event held every No means to measure or establish delivery predictability Pl. A regular time to reflect, collect data, and solve Improvement efforts address symptoms, not root causes problems, the Inspect & Adapt assembles teams and Leaders who could change the system are not engaged stakeholders to assess the Solution and define and take action on the improvements needed to increase ☐ Low morale the velocity, quality, and reliability of the next Pl. Without the IP Iteration: **IP** Iteration ☐ Lack of estimating buffer and poor predictability The Innovation and Planning Iteration occurs every ☐ 'Tyranny of the urgent' Iteration inhibits innovation PI and serves multiple purposes. It acts as an ☐ Technical debt grows uncontrollably estimating buffer for meeting PI Objectives and Lots of overtime, and people burn out provides dedicated time for innovation, continuing ☐ No time for teams to plan together, demo together, and education, and PI Planning and Inspect & Adapt improve together events. It is like extra oxygen in the tank: without it, the train may start straining under the 'tyranny of the urgent.' Without Architectural Runway: **Architectural Runway** Architecture progressively decays under the 'urgency of now' Architectural Runway consists of the existing code, ☐ Velocity peaks for a while, then falls off components, and technical infrastructure necessary ☐ Infrequent and irregular releases to support implementation of high-priority, near-☐ Solution robustness, maintainability, and quality decay term features, without excessive delay and redesign. Without enough investment in the Architectural ☐ Unsustainable development pace Runway, the train will slow down to allow time to redesign for each new Feature. Without Lean-Agile Leadership: **Lean-Agile Leadership** ☐ Teams cannot learn from their leaders For SAFe to be effective, the Enterprise's leaders and ☐ The transformation is fatally impaired managers must take responsibility for Lean-Agile Agile development with traditional governance results in adoption and success. Executives must become 'Agile in name only' leaders who are trained—and become trainers Lead time increases due to frequent escalation of in-these leaner ways of thinking and operating. decisions Without leadership taking responsibility for the People not allowed to experiment, fail, innovate, and learn implementation, the transformation will likely fail to



achieve the full benefits.

# **ESSENTIAL SAFe<sup>®</sup> Self-Diagnostic**

- 1. On the previous two pages, mark the symptoms that exist in your enterprise.
- 2. Then shade in one box in the following table for each symptom identified.
- 3. The things you need to work on should be obvious. Take action!



These 10 critical success factors also help an organization achieve three Lean Enterprise competencies: Lean-Agile Leadership, Team and Technical Agility, and Agile Product Delivery. Moreover, Essential SAFe provides the foundation for achieving the Business Solutions and Lean Systems Engineering and Lean Portfolio Management competencies.

#### TO LEARN MORE, READ THE GUIDANCE ARTICLE AT

scaledagileframework.com/essential-safe/





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