

ISO/IEC TS 20000-15:2024-05 (E)

Information technology - Service management - Part 15: Guidance on the application of Agile and DevOps principles in a service management system

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Introduction to ISO/IEC 20000-1:2018	4
5	Agile within an SMS based on ISO/IEC 20000-1	6
5.1	Background of Agile	6
5.2	Agile Principles	6
5.2.1	Overview	6
5.2.2	Agile Manifesto	6
5.2.3	List of Agile Principles	7
5.3	Agile and services	7
5.3.1	Value in a service environment	7
5.3.2	Value, customers and uncertainty in services	8
5.4	Defining objectives	9
5.5	High-uncertainty contracts	10
5.6	How to achieve the service objectives	11
5.7	Agile learning	11
5.8	The Agile team in a service context	12
5.8.1	Customer collaboration	12
5.8.2	Servant leadership	13
5.8.3	Continuous improvement	13
5.8.4	Competence	14
5.8.5	Agile culture	14
5.9	Metrics	14
5.10	Change management	15
5.10.1	Change and the SMS	15
5.10.2	Operational change management and release and deployment management	15
5.11	Simplicity and efficiency	16
5.12	The role of documented information	16
5.13	Compatibility of Agile with service management	17
6	DevOps within an SMS based on ISO/IEC 20000-1	17
6.1	General	17
6.2	DevOps principles	18
6.3	Customer-centric action	19
6.4	Create with the end in mind	19
6.5	End-to-end responsibility	19
6.6	Cross-functional autonomous teams	20
6.7	Continuous improvement	20
6.8	Automate everything	20
6.9	Shift-left and continuous everything	21
6.9.1	Shift-left	21
6.9.2	Continuous everything	21

6.10	Compatibility of DevOps with service management	22
7	Applying Agile and DevOps within an SMS	23
7.1	Benefits of applying Agile in an SMS	23
7.2	Benefits of applying DevOps in an SMS	25
7.3	Patterns and anti-patterns of applying Agile in an SMS	26
7.4	Patterns and anti-patterns of applying DevOps in an SMS	28
7.5	Using Agile and DevOps together	28
Annex A (informative) Summary correlation of ISO/IEC 20000-1:2018 clauses to Agile and DevOps concepts		30
Bibliography		34