## **Online Resource 1**

**Interview Guide** 

Article Title: From Shadow IT to Business-managed IT: A Qualitative Comparative Analysis to Determine Configurations for Successful Management of IT by Business Entities

## Positive cases **Negative cases** Description and measures for each considered positive or negative case Description Context • Short qualitative description of the case: ... • Positive for IT and / or business: ... **Effects** • Negative for IT and / or business: .. Causes • Identified causes for the case considered: ... Level Guiding questions for measures of case considered · How was the Shadow IT solution discovered Identification (e.g., network monitoring, helpdesk queries, etc.)? · When was the Shadow IT solution created, Timeframe when was it discovered? • Which and how many persons / roles were Stakeholders involved (team size / organization, external versus internal, technical skills, etc.)? Organizational • How has been dealt with the discovered Approach with Shadow IT Shadow IT solution? · Was there implementation support from the IT Organizational support department? If yes, which (e.g., in-house consultants)? · Development approach for Shadow IT Development approach development: Linear (e.g., waterfall) or iterative Measures (e.g., scrum)? · Was there any tool- or infrastructure support Technical support (e.g. DevOps environment, development platform, etc.) from the IT department? Shadow IT architecture: On-premise or SaaS? **Technical** System architecture How integrated into official IT? What is the system quality of the Shadow IT System quality solution (with regard to development process, business processing, etc.)? • How stable are / were the requirements for the Requirements stability Shadow IT solution? · How critical / relevant is the application for with Criticality / relevance General regard to company strategy, security, compliance, etc.? • How narrow / broad is the scope of the Scope solution?

Fig. A1 Guiding Questions for Measures of Positive/Negative Cases Discussed in Interviews

## **Data Matrix**

	Outcor	ne		Conditions (incl. measures)													
Case	Positive (case)	Distinct (pos. case)	General (pos. case)	Aligned	Approved / agreed	Org. split	Tech. split	Local	Specific	Standalone	Simple	Low-risk	Low-complexity	Volatile	Provisional	Ambiguous	
P01-A	1	1		0	0	0	0	1	1	1	1		1	1	1		
P01-B	0	0	_	0	0	0	0	0		0	0		0	0	0		
P01-C	1		1	1	1	1		1	1	1	1		1	1	1	1	
P02-A P02-B	1	1	1	1	1	- 1		1	1	1 1	0		0	0	0		
P02-B	1	1		0	0		(1)	1	1		0		0	0	U	0	
P03-A	0		0	0	0		(1)	0	0		1	(0)	1	0	0	U	
P03-C	0	0	U	0	0			0	0		1	(0)	1	0	0		
P04-A	1		1	1	1		1	1	1		0		0	0	0		
P05-A	0	0		0	0		•	1	1		0	0	(1)	0	0		
P05-B	1	1		1	1	1	1	1	1	1	1	1	1	1	1		
P06-A	1	1		1	1	1	1	0	0		1	1	1	0	0		
P06-B	0	0		0	0			0	0	0	0	0	0	0	0		
P06-C	1	1		1	1	1	1	1	1		1	1		0	0		
P07-A	1		1	1	1		1	1	1	1	1	1		1		1	
P08	-			-				-			-			-			
P09	-			-				-			-			-			
P10	-			-				-			-			-			
P11-A	1	1		1	1	1	1	0	0	0	1		1	0	0		
P12-A	1	1		1	1	1		1	1	1	1		1	1		1	
P12-B	0	0		0		0		0	0	0	0	0	0	0	0		
P13-A	0	0		0	0			0		0	1		1	0	0		
P13-B	1	^	1	1	1		•	1	1	1	1		1	1	1		
P14-A	0	0		0	0	4	1	0 1	0		1		1	0	0		
P15-A P15-B	1 0	1		1	1	1	1	0	1	0	0		0	0	0		
P15-B	1	U	1	1	1	(1) 1		1	1	0	1		1	1	U	1	
P16-A	1	1	'	1	1	1	1	1	1	<u>'</u>	1		1	1	1	-	
P16-B	0	0		0	0		'	1	1		1		1	0	0		
P16-C	1	U	1	1	1	1	1	1	1		1	1	·	1	Ü	1	
P16-D	1		1	1	1	1	·	1	1		1		1	0	0	•	
P17-A	1		1	1	1		1	1	1		0	0		0	0		
P18-A	0	0		0	0			1	1		1		1	0	0		
P18-B	0	0		0	0			1	1		0		0	0	0		
P19-A	1		1	1	1		1	1	1		0		0	0	0		
P20	-			-				-			-			-			
P21-A	1	1		1	1		1	1	1		1		1	0	0		
P22	-			-				-			-			-	<u> </u>		
P23-A	1		1	1	1	1	1	1	1	1	0	0	0	0	0		
P23-B	1	1		1	1		1	1	1		0	0		0	0		
P23-C	1		1	1	1			1		1	1	1		1		1	
P23-D	1	1	4	1	1	1	1	1	1		0		0	0	0		
P24-A	1		1	1	1			1	1		0		0	0	0		
P25	-	0		-	0			1		1	-		1	-	0		
P26-A P26-B	0 1	0		0	0		1	1	1	T	1		1	0 1	0	1	
P26-B P27-A	1	-	1	1	1	1	ı	1	1	1	0		0	1	$\vdash$	1	
P27-A	-			_	-	- 1		-	-	- 1	-		U	_	$\vdash$	- 1	
P29-A	1		1	1	1			1		1	1		1	1	1	1	
г 29 <b>-</b> А			- 1							- 1	ı			ı	LL	I	

Fig. B1 Data Matrix (Including Measures and the Aggregated Conditions/Outcome)