

,

004.896

• • , • • •

Considered a modern representation of a concept "system architecture" and the concept of architectural framework as a combination of theoretical and practical tools to generate the system. The generalized mathematical model of the architectural framework and a model of the architectural framework of accelerated development of information system are developed.

Keywords: system, architectural framework, requirement to the informative system category model, planning pattern.

2010 . ISO/IEC/IEEE 42010 «Systems and Software Engineering – Architecture Description»

ISO/IEC/IEEE 42010

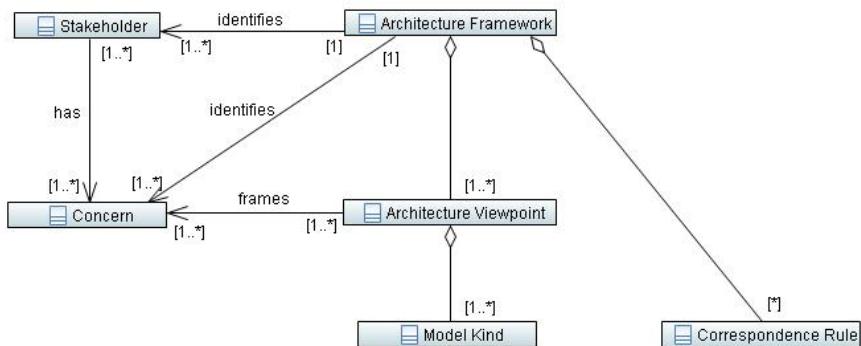
, »[1]«

© . . . , © . . . , 2013.

1-2 (39-40) – 2013

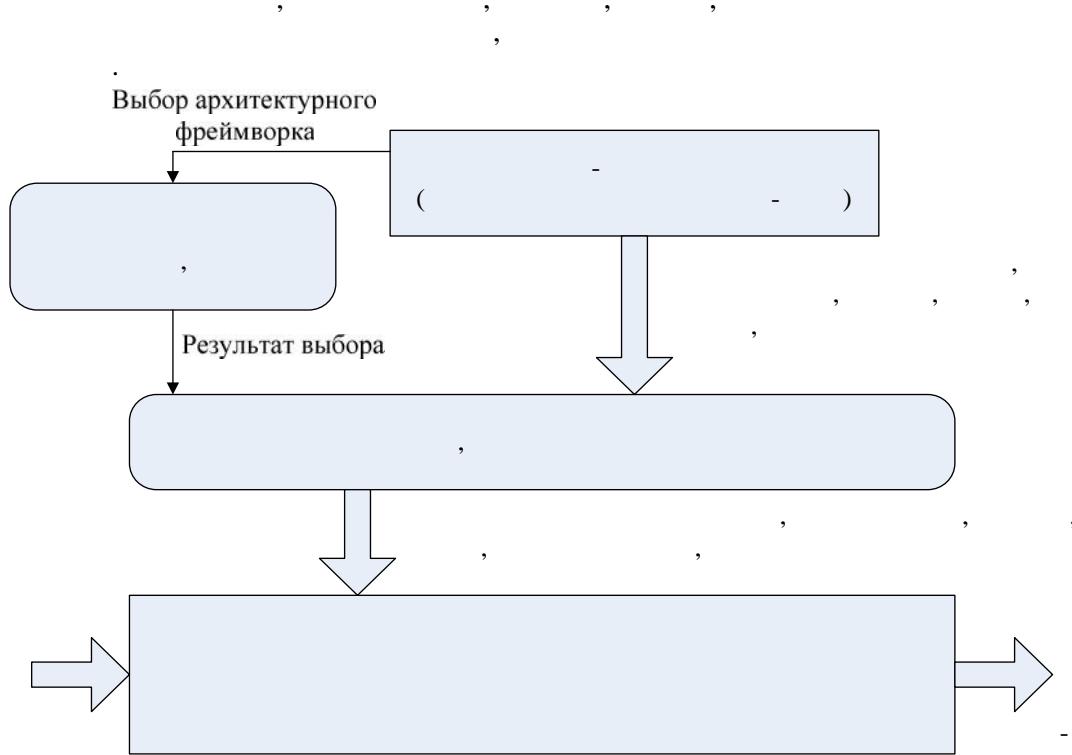
ISO
;
- , ;
- ;
- , -
;
- (, -
IS);
- , ;
- ;
- ;

Kruchten's 4+1 View Model, RM-ODP [2-5], ISO/IEC/IEEE 42010, . 1 [1]. : MODAF, TOGAF,



. 1. , ISO/IEC/IEEE 42010

2.
2.1. . 2 ,



. 2.

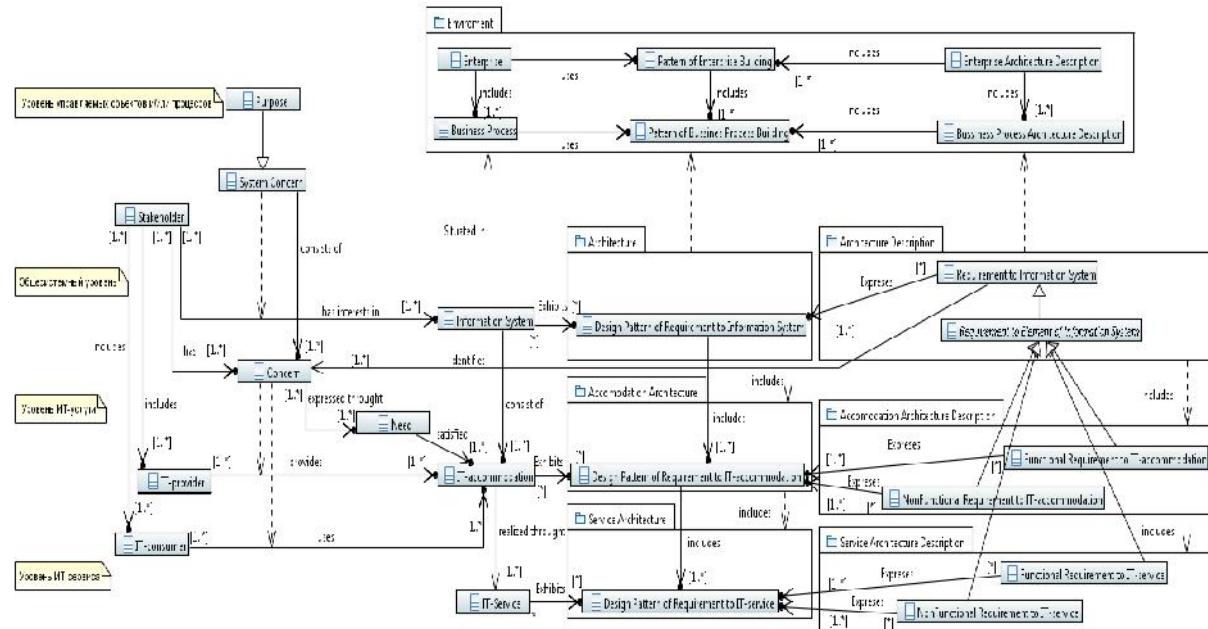
, , , , , ,
, « » — , , , ,
, , , ,
« » — , , , ,
, ISO), Data Mining (Process Mining,

$$M_{AF} = [L_{Md}, L_{Mt}, L_{Kn}, L_{Al}, \quad L_{Md} \quad L_{Mt} \quad L_{Kn} \quad L_{Al}, \quad L_{Md} \quad L_{Mt} \quad L_{Kn} \quad L_{Al}, \quad L_{Mt} \quad L_{Al} \quad L_{Al} \quad L_{Al}], \quad (1)$$

$$\begin{aligned}
& M_{AF} = \dots, & L_{Mt} = \dots, \\
L_{Md} = & \dots, & ; L_{Kn} = \dots, \\
& ; L_{Al} = \dots, & , \\
& ; \frac{L_{Md}}{L_{Mt}} = \dots, & , \\
& L_{Md} - L_{Mt}; \quad \frac{L_{Md}}{L_{Kn}} = \dots, & , \\
& L_{Md} - L_{Kn}; \quad \frac{L_{Md}}{L_{Al}} = \dots, & , \\
& , & L_{Md} - L_{Al}; \quad \frac{L_{Mt}}{L_{Kn}} = \dots, \\
L_{Mt} - L_{Kn}; \quad \frac{L_{Mt}}{L_{Al}} = & \dots, & , \\
& L_{Mt} - L_{Al}; \quad \frac{L_{Kn}}{L_{Al}} = \dots, & , \\
& L_{Kn} - L_{Al}. & \\
(1) & , & , \\
& , & , \\
& L_{Md} & \\
& (1) &
\end{aligned}$$

2.2.

[7].



(1),

$$L_{Md}$$

$$M_{AF} = [M_{str}^{Pt}, M_{bhv}^{Pt}, L_{Kn}, L_{Al}, \frac{M_{str}^{Pt}}{M_{bhv}^{Pt}}, \frac{M_{str}^{Pt}}{L_{Kn}}, \frac{M_{str}^{Pt}}{L_{Al}}, \frac{M_{bhv}^{Pt}}{L_{Kn}}, \frac{L_{bhv}^{Pt}}{L_{Al}}, \frac{L_{Kn}}{L_{Al}}], \quad (2)$$

$$M_{str}^{Pt} -$$

$$; M_{bhv}^{Pt} -$$

$$; \frac{M_{str}^{Pt}}{M_{bhv}^{Pt}} -$$

$$M_{str}^{Pt} - M_{bhv}^{Pt}; \frac{M_{str}^{Pt}}{L_{Kn}} -$$

$$M_{str}^{Pt} - L_{Kn}; \frac{M_{str}^{Pt}}{L_{Al}} -$$

$$M_{str}^{Pt} - L_{Al}; \frac{M_{bhv}^{Pt}}{L_{Kn}} -$$

$$M_{bhv}^{Pt}$$

$$L_{Kn}; \frac{M_{bhv}^{Pt}}{L_{Al}} -$$

$$M_{bhv}^{Pt} - L_{Al}.$$

(1),

ISO/IEC 15288:2002;

)

) , .);

) ;

) , , ;

) , , ;

) , , ;

) , , ;

) , , ;

) , , .);

)

ISO/IEC/IEEE 42010.

1. ISO/IEC/IEEE 42010 Website []. – : <http://www.iso-architecture.org/ieee-1471/index.html>. – ().
2. Bailey, I. Brief Introduction to MODAF with v1.2 Updates [] / I. Bailey // Modaf.com the website for MODAF users and implementers. – : <http://www.modaf.com/Documents/>. – ().
3. Welcome to TOGAF® Version 9.1, an Open Group Standard [] // The Open group. – : <http://pubs.opengroup.org/architecture/togaf9-doc/arch/>. – ().
4. Kruchten, Ph. Architectural Blueprints – The “4+1” View Model of Software Architecture [] / Ph. Kruchten // IEEE Software. – 1995. – 12 (6). – p. 42-50.
5. Linington, P. F. Building Enterprise Systems with ODP. An Introduction to Open Distributed Processing / P. F. Linington, Z. Milosevic, A. Tanaka, A. Vallecillo. – Chapman & Hall/CRC Press, 2011. – 284 p.
6. , . . . // . . . – 2012. – 5/2 (59). – 12-17.
7. , . . . « ». – 2012. – 68 (974). – . 32-40. – (: « »).
8. , . . . : . . . (. . .) . . . []. – . : . . . , 2012. – . 34.

28.03.2013 .

E-mail: iec@kture.kharkov.ua