

Jihočeská univerzita v Českých Budějovicích University of South Bohemia in České Budějovice

Process modeling in ARIS

doc. Ing. Ladislav Rolínek, Ph.D.



EVROPSKÁ UNIE Evropské strukturální a investiční fondy Operační program Výzkum, vývoj a vzdělávání





Process Maps - Level Concepts



(adopted and modified by IDS Scheer)



Process Maps - Level Concepts



(adopted and modified by IDS Scheer)







Models that are hierarchized to an object take its name.





Named conventions for models

Process: The name should be derived by one or more nouns or widespread adjective, prefix or suffix.



Other examples: Strategic Planning, Order Processing, Domestic Payments, Addressing Potential Customers

(adopted and modified by IDS Scheer)



.

.

-

-

Essence and creation of EPC

(Event-driven Process Chain)





Control flow display ie the chronological and logical sequence of each function in the process





EPC: Digram Design Elements





Functions: Expert task performed on an object supporting one or more goals. Synonyms: activity, activity, process step, procedure



(adopted and modified by IDS Scheer)



Event: Describes the commercially relevant status of an information object that controls or affects the next process.



(adopted and modified by IDS Scheer)



After the decision making functions (testing):

Incorrect: "Tests performed,,

Correct: Specify the possible test results (the test function usually has at least two mutually exclusive events)





The process path (interface) is a symbol for the EPC Function object.



Process path are used:

- demonstration of downstream and upcoming processes;
- to navigate to follow-up and upstream processes directly from the EPC (by opening the attached model).

(adopted and modified by IDS Scheer)



Process path (example)





- > Each EPC starts with at least one trigger event (or process interface).
- Each EPC ends with at least one end event (or process interface).
- The event is followed by either a function or an operand (the exception is the ending event).
- > The function is followed by either an event or an operand.
- > Each feature has one input connection and one output link (exception is end or input event).
- Each event has one input connection and one output link (the exception is the end or entry event).
- The Operand has either:

multiple input connections and one output link or

one input connection and multiple output connections.



EPC: merging paths



(adopted and modified by IDS Scheer)



EPC: příklad operandu OR





EPC: příklad operandu OR



Modeling: access solutions

Process representation by text:

- Flights are registered by Mrs. Novak in the LETREGISTR system. Customer data is required as input.

Diagram representation of the process:





<u>Representation of the process in the following table:</u>

Α	В	С	D
Activity (function)	Organization unit	IT system	Input data
Flight booking	Mrs. Novak	Flight register	Customer data





Events initiate functions.

Functions create events.







Functions process data.











ARIS Architecture (4)













Jihočeská univerzita v Českých Budějovicích University of South Bohemia in České Budějovice



