Application of Service Science © Leonard Walletzký

Value estimation

>> How to find proper value proposition



Problem of moral hazard

- a tendency to take undue risks because the costs are not borne by the party taking the risk
- The customer is able to affect an event he is insured against, but the seller has no power to monitor or affect this event.
 - ERP supplier has limited information about customers IT security
 - Provider has limited information about the basement of the real client's problem
- Double moral hazard
 - Client does not know if the provider is able to operate on the particular target

Double moral hazard

- Illusion of value proposition
- Provider is not able to see the basis of target
- Client is not able to see the benefits of the cooperation
- Both are motivated to share information and knowledge
- Value proposition can not be set up

Example

- The company needs information system to support its core business
- The company has serious problems with
 - communication with customers
- But also hidden problems
 - publishing information
 - time spent on one particular business case is too long – mostly caused by bad communication inside the company

IT company

- Offers a big customised ERP system together with CMS system
 - CMS system has connection to Social Networks
- The problem to solve is the communication
- But it is not a part of the problem
- IT company needs to find its paths through particular targets – to analyse the situation if the client

Value

Value proposition is hidden

- is hidden by the hill
- Hierarchy of barriers hiding the target
 - have to be overcame step by step
 - leads to process of value estimation

Value can not be proposed

It can be only estimated

- is used to find value proposition
- there is not a target, only target area
 - target area is the space of all sub-targets, corresponding with particular value estimation

Value estimation

- modified by the value co-creation process
- motivated by the decreasing of the level of information asymmetry of both parties
- the process is about particularize of value estimations
- till the moment of founding the value proposition

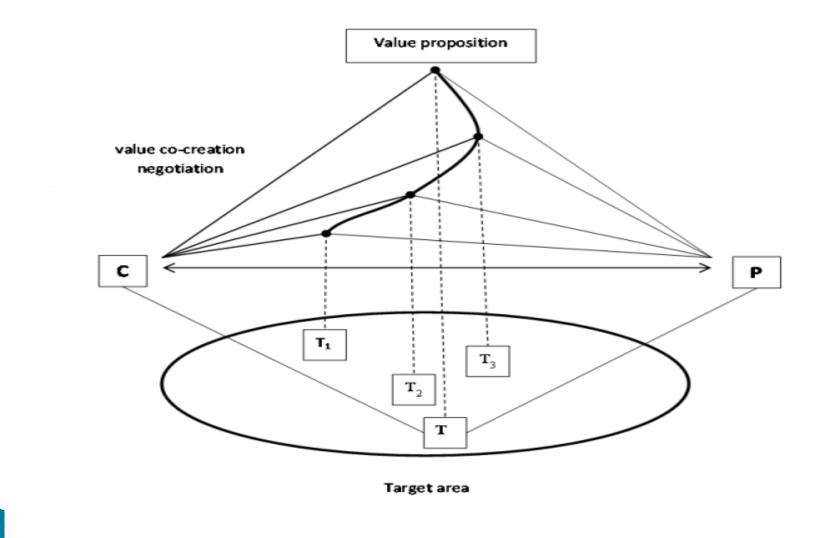
Value proposition

- can be found in the moment client and provider can see the target
 - share the same point of view
 - both can see the utility level
 - and share as well

both partners agree with concrete mutual criteria of success

- variables to test
 - no of customers
 - profitability
- target values
 - number of customers rise of 30%
 - profitability rises more than 10%

Value proposition



Costs of value estimation

- must be shared and paid
 - problem is complex
 - must be understood and explored
- provider must be paid for using his sources to do it
- Client is paying for the analysis of the target area

Software as a Service





▶ 60s

- Centralized hosting of business applications
- service bureau
 - company which provides business services for a fee
 - eg. IBM
 - time-sharing
 - sharing of a computing resource among many users by means of multiprogramming and multi-tasking
- utility computing
 - a service provisioning model in which a service provider makes computing resources and infrastructure management available to the customer as needed, and charges them for specific usage rather than a flat rate
- mainframes

- ▶ 90s
 - Application Service Provider (ASP)
 - thanks to expansion of the Internet
 - class of centralized computing
 - services of
 - hosting
 - managing specialized business applications
 - reducing costs through
 - the solution provider's specialization in a particular business application
 - central administration



- > 2001
 - Software as a Service
 - extends the idea of the ASP model
 - software vendors
 - first ASPs were focused on managing and hosting of third-party independent software vendors' software
 - SaaS
 - typically develop and manage their own software



application clients

- ASP
 - Client Server
 - initial ASP used thick clients
- SaaS
 - Thin Clients
 - Web browsers
- software architecture
 - ASP
 - maintaining a separate instance of the application for each business
 - SaaS
 - utilize a multi-tenant architecture
 - multiple businesses and users

Applications

- Well known SaaS
 - Gmail
 - Google Drive
 - Office 365
- Messaging
- DBMS software
- management software

Applications

- CAD software
- development software
- accounting
- collaboration
- project management
- customer relationship management
- management information systems
- enterprise resource planning
- invoicing
- human resource management
- content management
- service desk management

Architecture – provider

- Cloud
- Cloud Service models
- support of scalability
 - horizontal scaling
 - the application is installed on multiplication
- tenant



Architecture – provider

- multi-tenant services
 - Vast majority of SaaS solutions
 - a single
 - version of the application
 - configuration
 - hardware, network, operating system
 - advantage in comparison with traditional software
 - multiple physical copies
 - potentially different versions
 - different configurations

Tenant A Tenant A

Simplified fine grained multi tenancy

Shared Pool of Virtual Machines

Architecture – client

- Thin Client
 - Web Browser
- Hybrid
 - Dropbox





- For integration with internal systems
 - Application programming interfaces



Business models

- Subscription fee
 - User
 - Time unit
 - typically
 - month
 - annual
 - Transaction
 - Support
- Advertising

- Freemium
 - basic functionality is for free
 - restrictions in
 - capacity
 - functionality
 - support
 - users
 - time
 - bandwidth
 - money si charged for
 - proprietary functions
 - functionality
 - •••
 - multi-tenant

How to describe to managers?

- Managers are not IT experts
- They are focused on core business of the companies
- They understand the language of the money
- They see IT as the source of problems and non stability

Positive	Negative
StrengthsOpportunities	WeaknessesThreats

Strengths

- Less risky
- Immediate
- Reduce IT support costs
- Initial setup cost for SaaS is typically lower than the equivalent enterprise software
- Architecture
- Economy of Scale
- Enables Mashups

Low risk level

Customer

- Lower initial investment
 - Software and hardware
- Even the long time usage price is higher
 - Compare with better ROI (return of investments)
 - Avoiding the peaks of cash flow (the highest danger is based on unexpected costs)
- Example
 - CRM or ERP system
- Provider has regular income

Immediate

- SW deploy
- Updates
 - more often
 - update is decided and executed by provider, not by customer
- single configuration
- faster testing
- vendor has access to
 - all customer data
 - expediting of design
 - regression testing
 - analytics of user behaviour

Weaknesses

- Migration of data
- Integration of clients
- Tailored customization
- Can't directly access a company's internal systems
- Customer might be forced to use a new versions

Opportunities

- SaaS Integration Platforms
 - Complex systems that integrates particular services
 - CRM
 - ERP
- Growth of SaaS sales on global market
- Enables Mashups
 - integrating content from more than one SaaS
 - to create a single new service displayed in a single graphical interface

Threats

- Unreliable provider of the service
 - Bankrupt
 - The physical presence of data
- Security and privacy
 - is common corporate infrastructure more secured than data centres of cloud?
 - HTTPS

Connection

- Latency
- Reliability

Sence of SWOT

- SaaS is only one from many solution
- Task is to give proper service for concrete situation
- Managers need to understand
 - Advantages
 - Risks
- To have real expectations

Conclusion

- SaaS is one way to distribute service
- In many points of view has positive influence to both parties business
- Needs to be described and set properly