



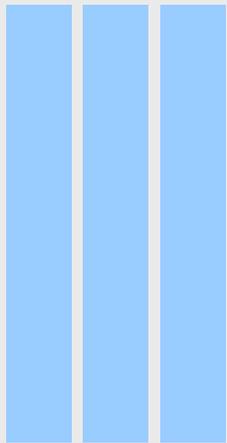
# ITU-T/OGF Workshop on NGN and Grids Steering via SLA

Michael Fehse  
Chief Scientist ITO  
23 Oct 2006 Geneva

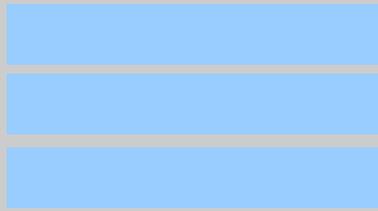
# The Vision for IT and NGN. Global Disperse Service Infrastructure. Modelled on Principles of Manufacturing Industries.

... T ... Systems

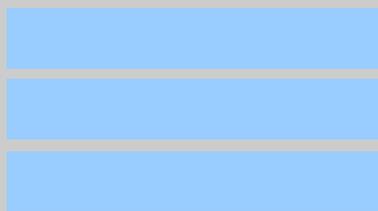
COMMUNICATE



COMPUTE



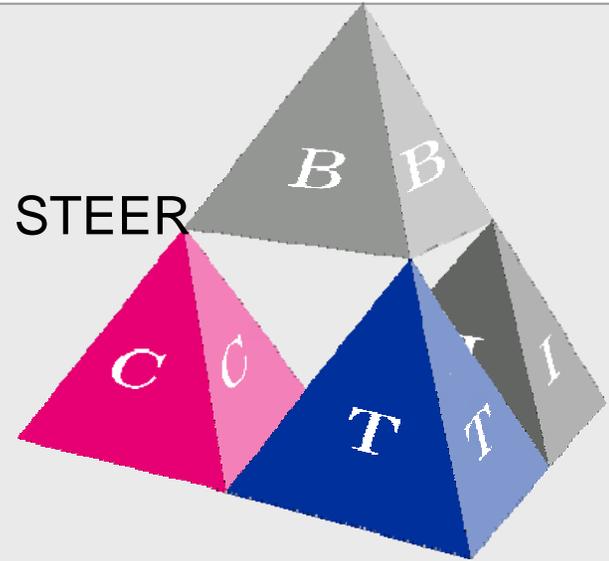
DATA



ARCHIVE

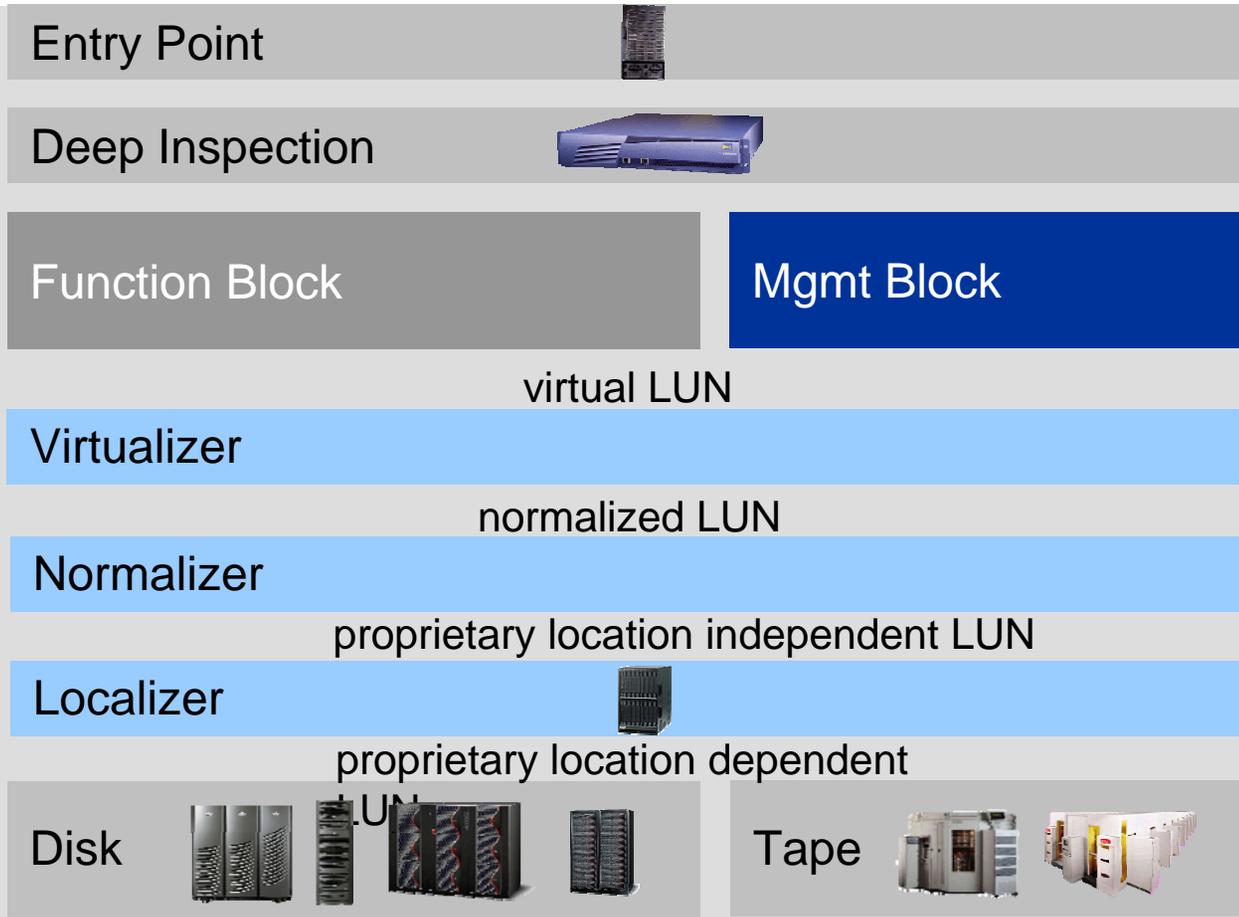


STEER



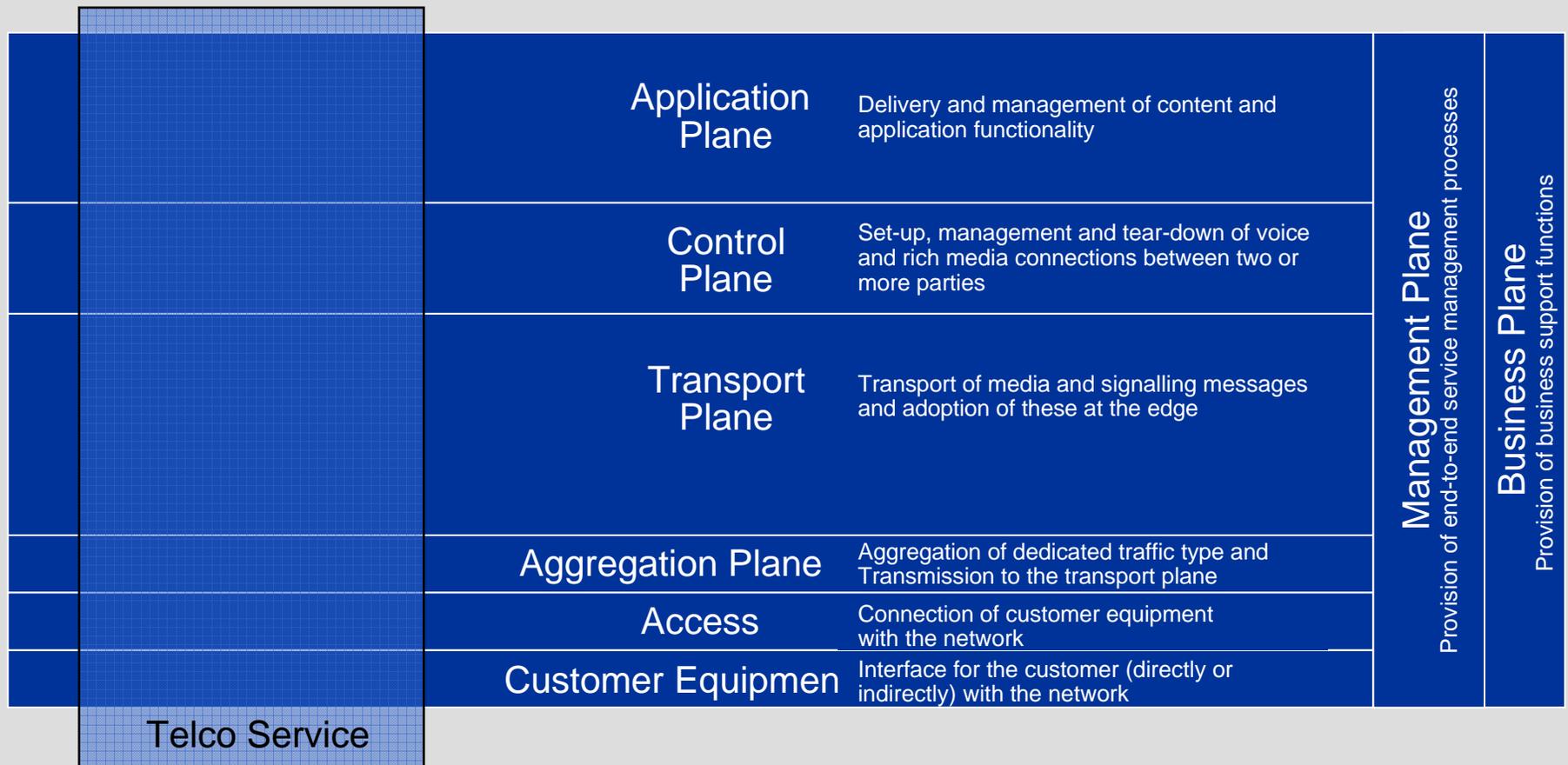
# The Vision for IT and NGN.

Example: The DATA Object.  
Self-managing split-path design.



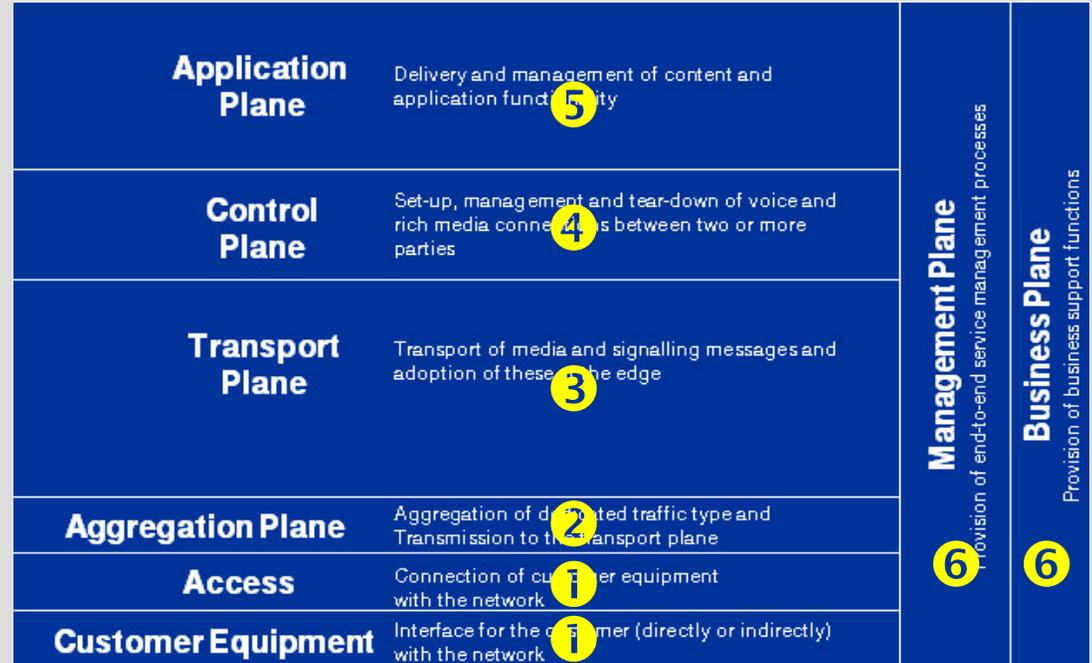
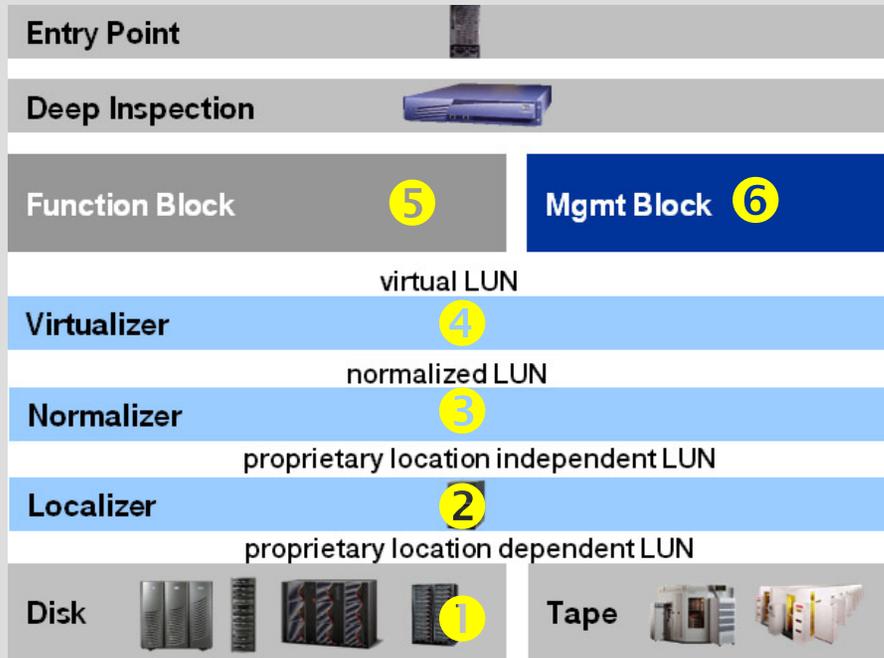
LUN = Logical Unit Number

# NGN Architecture. Vision for Networks.



# Network and IT Visions. Similarities ? Good enough to treat them equally!

... T ... Systems

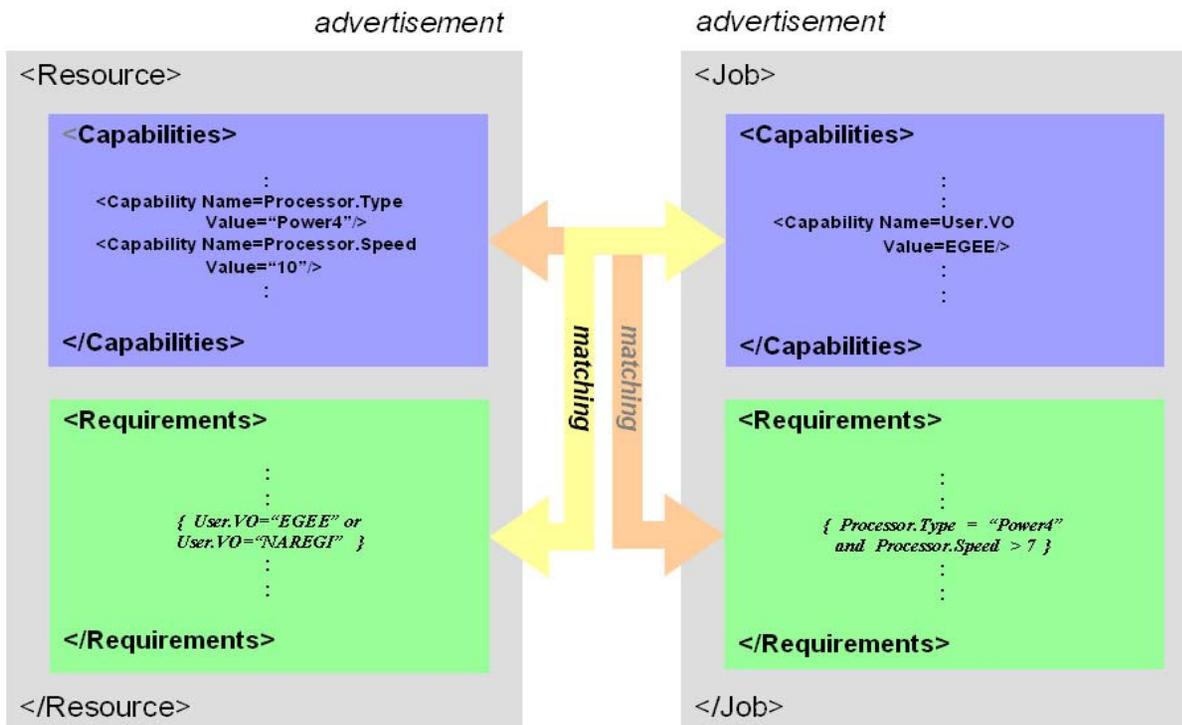


- 1 physical "terminal" device
- 2 creates location independence
- 3 abstracts transport, makes all look equal
- 4 controls mapping/session, virtualizes allocation
- 5 creates the service
- 6 manages functional/non-functional req.

Raise abstraction level.  
 Resource becomes service.  
 Makes objects self- \* able services.

## Advertisement/Requirement Matching

*document syntax is exemplary and not rigorous on these concept charts*



17 July 2006

OGSA Information Modeling

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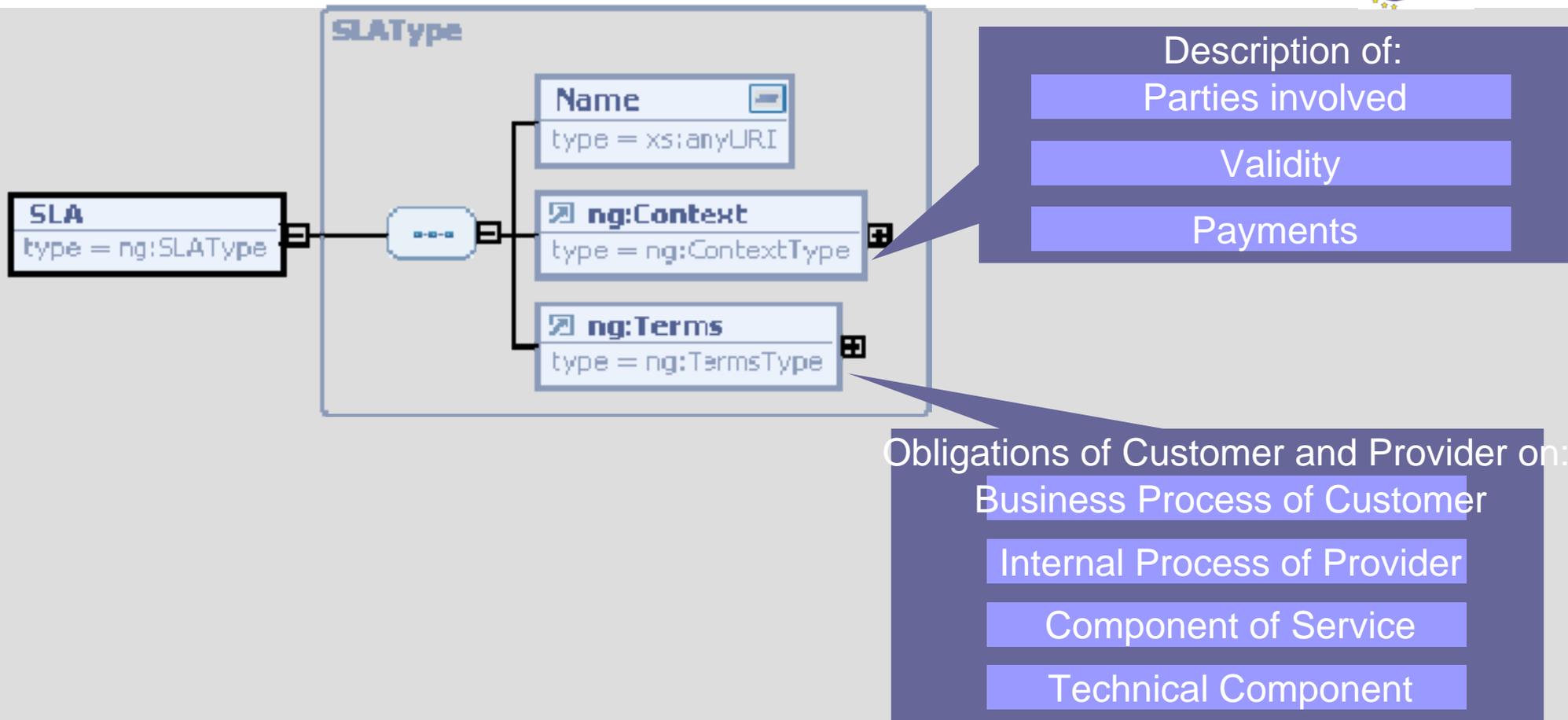
“Discovery” matches Requirements and Capabilities of Resource and Job , treats them both as services.

Introduces the Concept of Obligations on both sides.

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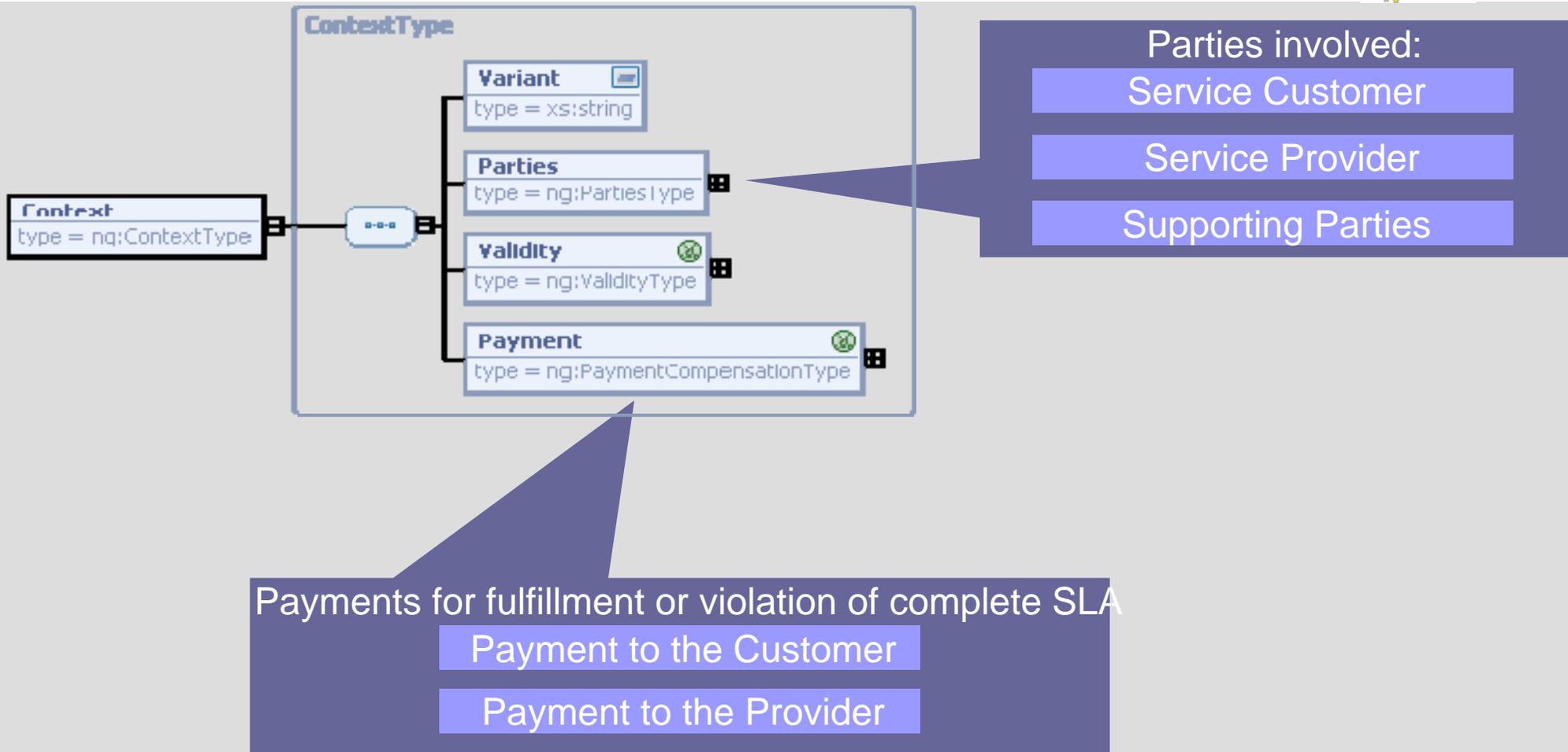
# Steering of self-\* able services via SLA.

WS-Agreement as a base.  
Enhancements by UBL, WSDM etc...

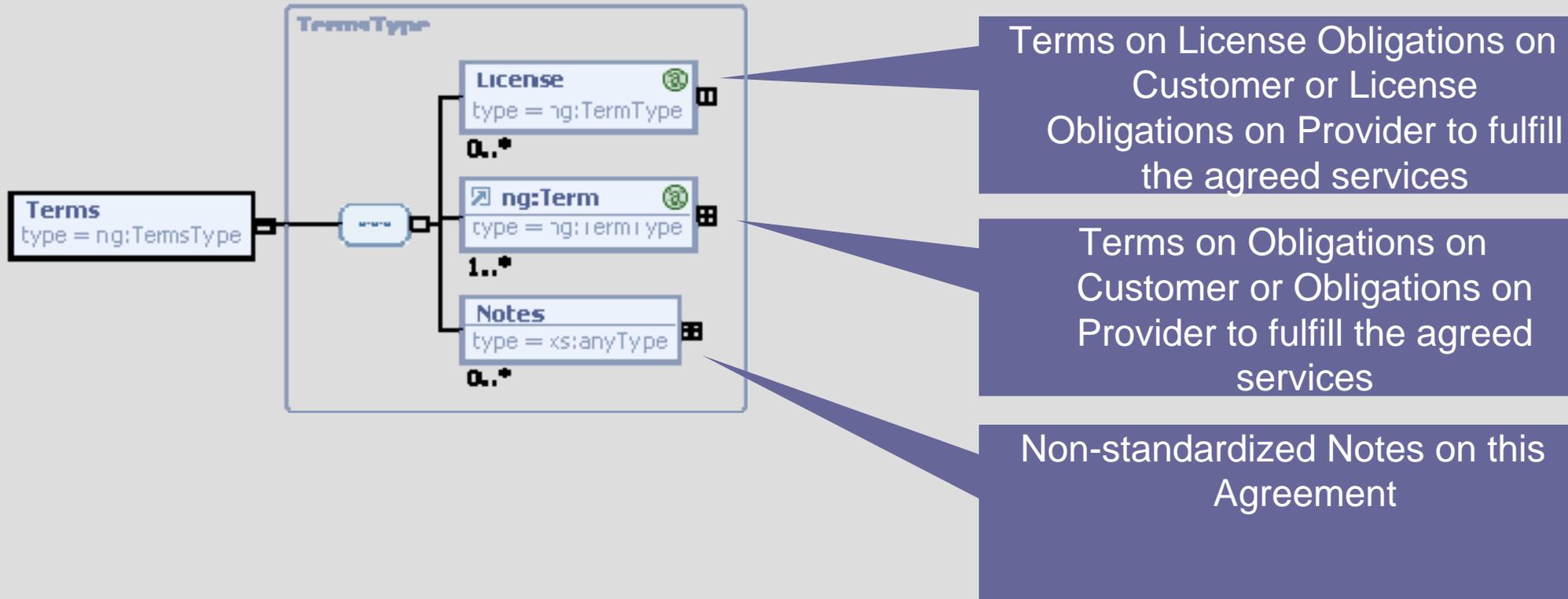


# Steering of self-able services via SLA.

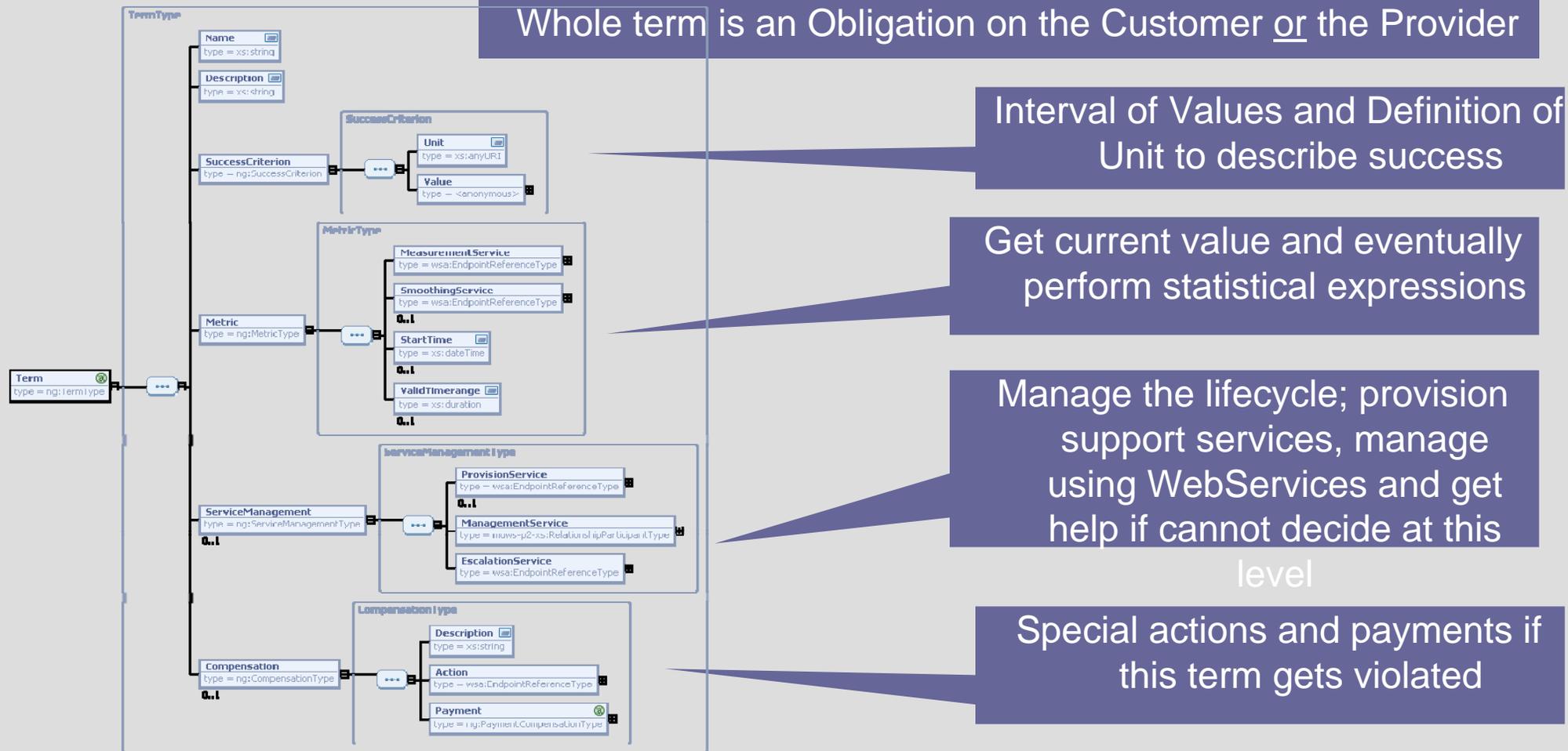
WS-Agreement as a base.  
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# Steering of self-able services via SLA. WS-Agreement as a base. Enhancements by UBL, WSDM etc...

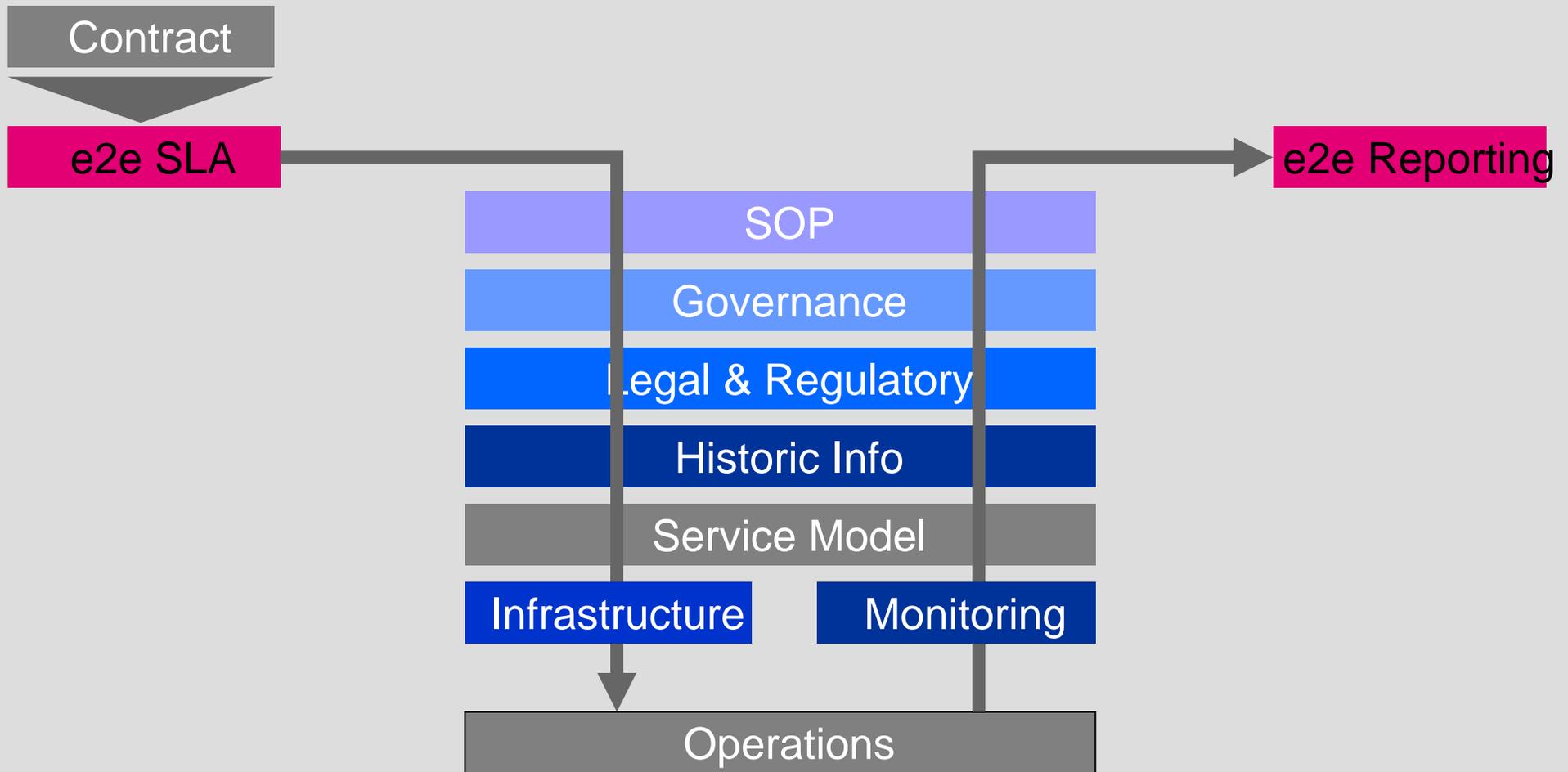


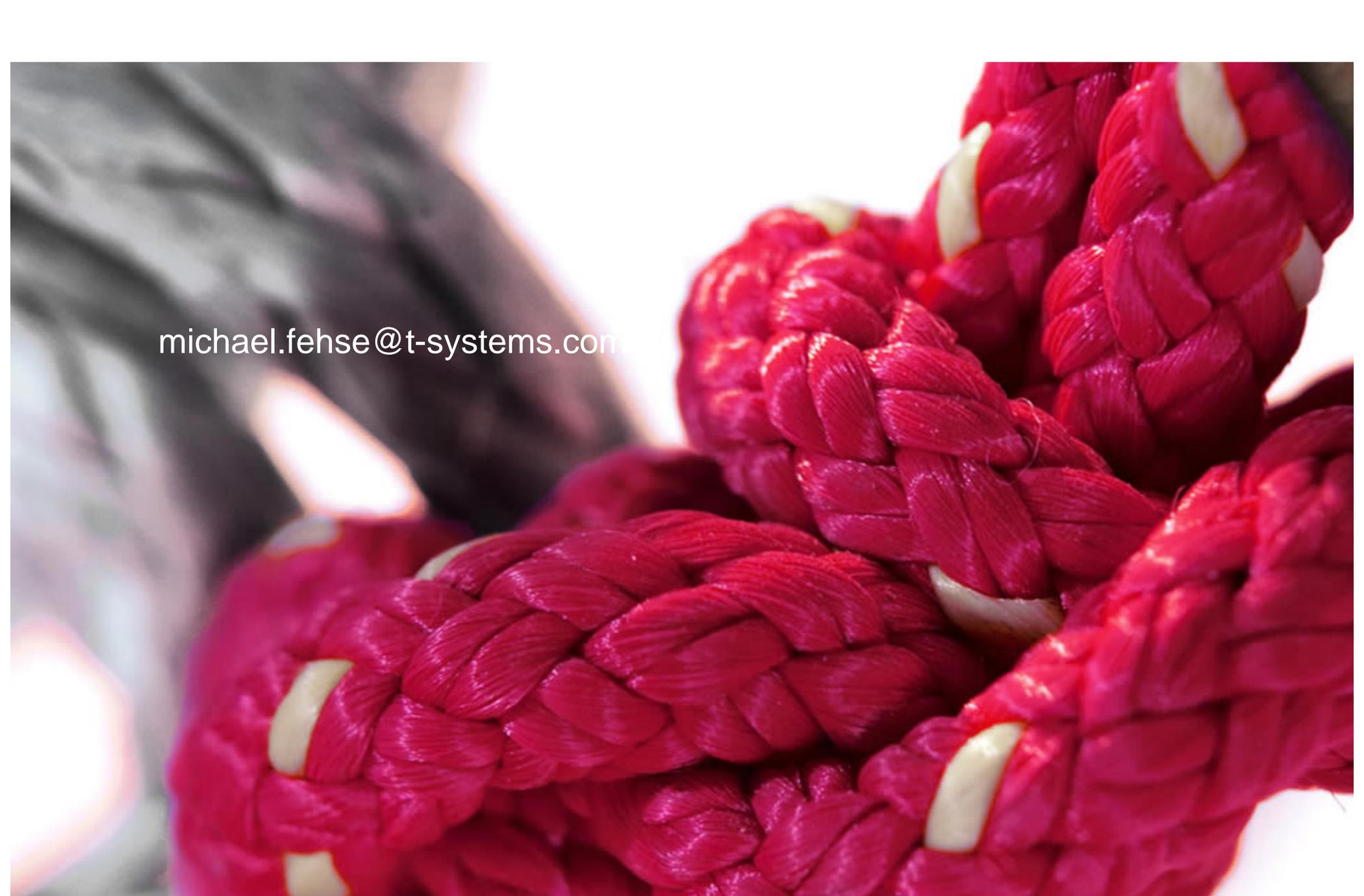
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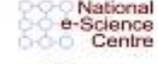
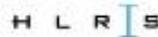
# Steering of self- \* able services via SLA.

Automated derivation of operations from contract.  
(Current Experiment)





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