System description - Data Producer

February 5, 2020

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System description - Data Producer			
Date		Version	
February 5, 2020		1.0	
Author		Status	
Carl Borngrund		Proposed	
Contact		Page	
carl.borngrund@ltu.se		2(3)	

1 System Description Overview

The data producer is a system which holds some amount of data that can be bought by a data consumer through the contract system. The data producer receives contract offers through events from the event handler and can from this event either accept or reject the offer. The producer will contact the contract system to response with either an acception or rejection of the contract.

Once a contract has been accepted by the data producer, the system who made the contract offer can now access the data it has bought.

2 Behaviour Diagrams

Fig. 1 shows how the data producer interacts with other systems. The only core system interaction which has been included in Fig. 1 is the publishing of events through the event handler as it is a vital part of the data producer.

The data producer receives an offer contract event from the event handler and decides if to accept the contract depending on how much currency is offered for the data. Once the data producer has decided to accept or reject the offer, the decision is sent to the contract system.

If the offer was accepted the data consumer, who bought the data, can now directly contact the data producer and retrieve its data.
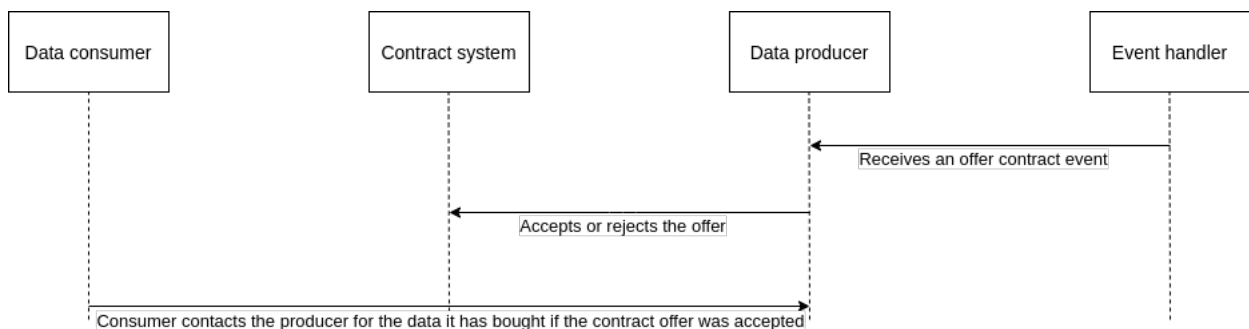

Figure 1: Behaviour diagram of the Data Producer

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3 Application services

Table 1 shows which services the data producer produces and Table 2 shows which services the system consumes. The path to the IDDs will be linked in respective table.

3.1 Produced Services

Service	IDD Document Reference
get-data	Interface_Design_Description__IDD__get_data.pdf

Table 1: Showing the data producers produced services.

3.2 Consumed Services

Service	IDD Document Reference
accept-contract	Interface_Design_Description__IDD__accept_contract.pdf
reject-contract	Interface_Design_Description__IDD__reject_contract.pdf

Table 2: Showing the data producers consumed services.

4 Security

This system is a work in progress which means only basic security exists, such as SSL and basic token security. Currently it is possible to get data from a data producer which an consumer has bought by guessing the identifying hash.