Roles and responsibilities

- WS6 Options paper will include requirements for each option and the roles and responsibilities of industry parties and customers in relation to these requirements.
- These slides set out diagrams showing the roles and responsibilities of a selection of options.
 - We are looking for volunteers to help develop diagrams for the other Options.
 - These diagrams will be used in the Options paper.
- Each slide shows the flows of payments, billing, data, notifications and commands for an option. This indicates which party is responsible for each element, and what other parties' roles are.
- Note that for simplicity these diagrams indicate the DNO or supplier leading engagement and managing data and communications. However, a third party could take this role as an agent of the customer.
- The key below sets out the main processes for the options, aside from initial and ongoing engagement with the customer, which is set out on each slide.



The pros and cons of each option are listed in the Options Paper

Key Questions

- Do supplier and DNO both need to buy DCC data or can they share data when needed for validation and billing?
- Would remote automation commands be better done via supplier or direct from DNO – ie would DNOs require the speed of a direct command?
 - Can all remote automation commands be made via smart metering infrastructure?
- What interaction do DNOs need to have with suppliers before customers agree contracts?
- What information do suppliers/DNO/TO/SO need when:
 - a) a customer is signed up to a new DSR contract; and
 - b) a response is called on remotely?

DNO dynamic tariff with remote automation

*Requires change of policy as current smart metering system policy does not permit DNOs to remotely control devices . Additional comms equipment at premises may be needed (e.g CAD), until DNOs have this permission. There is no central registration of appliances in CAD or DCC.



DNO leads engagement with customer, responsible for signing customer up and providing support



DNO leads engagement with customer (or pays third party to do this) responsible for signing customer up and providing support

Load Limiter (mandatory or voluntary options)

Barriers

*Option under review as limit would cause whole household supply to be * Process is the same for automation at premises, with the exception that no command is issued

• Process is the same for differential DUoS tariff via supplier

Two band DUoS charge via supplier – remote automation



providing support



Supplier (or a third party on behalf of the consumer) leads engagement with customer responsible for signing customer up and providing support**

Two band DUoS charge via supplier



Supplier leads engagement with customer responsible for signing customer up and providing support

Differential DUoS charge direct to consumer



DNO leads engagement with customer (or pays third party to do this) responsible for signing customer up and providing support

DG option: upfront auction



DNO leads engagement with customer and runs auction process (or pays third party to do this)

I&C option: 'pay as you go' response/ availability and utilisation payment.



DNO leads engagement with customer (or pays third party to do this)

Energy efficiency measures



DNO leads engagement with customer, responsible for signing customer up and providing support

Slides from WS6 members

Restructuring DUoS charge via supplier



Supplier leads engagement with customer responsible for signing customer up and providing support

Restructuring DUoS charge direct to consumer



DNO leads engagement with customer (or pays third party to do this) responsible for signing customer up and providing support

Supplier load limiting

Advantage is known load limiting periods. This could work for credit and PPM customers



Supplier leads engagement with customer responsible for signing customer up and providing support

Supplier load limiting – PPM customers when no credit

Disadvantage is no known load limiting periods in advance. But no spikes in demand rise or fall as large number of customers would load limit at the same time







Supplier leads engagement with customer responsible for signing customer up and providing support

Differential DUoS charge direct to consumer



DNO leads engagement with customer (or pays third party to do this) responsible for signing customer up and providing support

Differential DUoS charge via Supplier



Supplier leads engagement with customer responsible for signing customer up and providing support

DNO dynamic tariff with automation Signal passed through the supplier

* This would require a feedback loop by which the DNO can verify that the signal has been received and action has been taken



DNO dynamic tariff without automation Signal passed through the supplier

* This would require a feedback loop by which the DNO can verify that the signal has been received and action has been taken





Static tariff without automation

** if the tariff is a joint tariff, and the supplier is already engaging with the customer, it doesn't make sense to alter the arrangement – a new DNO billing system would add costs and confusion to consumer



Supplier leads engagement with customer, responsible for signing customer up and providing support.** Similar to current tariff arrangements and easier for customer to grasp. Requires customers to actively shift load

Static tariff with automation at premises

** if the tariff is a joint tariff, and the supplier is already engaging with the customer, it doesn't make sense to alter the arrangement

a new DNO billing system would add costs and confusion to consumer



Supplier leads engagement with customer responsible for signing customer up and providing support**. Relatively simple for customer to grasp as long as appropriate incentives provided

Static tariff with remote automation

** if the tariff is a joint tariff, and the supplier is already engaging with the customer, it doesn't make sense to alter the arrangement

a new DNO billing system would add costs and confusion to consumer



Supplier leads engagement with customer responsible for signing customer up and providing support**. Most complex industry arrangement but hassle free for customer.



Supplier & DNO share engagement (or pay 3rd party) with customer and share responsibility for signing customer up and providing support



DNO leads engagement (or pays 3rd party) with customer and has responsibility for signing customer up and providing support

Critical event tariff without automation (11a)



Note; Options exist for the DNO to either signal directly or via the supplier(s). It is probably best suited to going via supplier unless there are more options that could be offered with the same equipment so as to offer value for sizable systems investment. Supplier systems likely to be in place to communicate with Smart Meters, IHDs and settle any billing. Additional complexity should be recognised, that while DNO, TO & TSO are exclusive there could be multiple suppliers within a specific locational DSR event.

Note; Live network monitoring data from supplier is unlikely to be required. DNOs will monitor network level loads via control room systems.

engagement with customer. Probably best offered via supplier due to existing resources &

As with other approaches, does the TO or TSO require any visibility of these arrangements and if so, what?

SO

Critical event tariff with automation (11b)



Note; Options exist for the DNO to either signal directly or via the supplier(s). In the event of direct intervention it is more viable for DNO to directly communicate the event. The suppliers more advanced systems and relationships do however still lend themselves to being the more effective route for performance validation and settlement.

Note; Live network monitoring data from supplier is unlikely to be required. DNOs will monitor network level loads via control room systems.

DNO usage likely to be low, so utilising supplier justified equipment and offering contribution based on need is most practical option.

DNO or Supplier can lead engagement with customer. *Probably best offered via supplier(s) due to existing resources* & relationship.

As with other approaches, does the TO or TSO require any visibility of these arrangements and if so, what?

TO

TSO



• It is not yet clear how data from a mandated process will be gathered and held.

Market supplies suitable loads at 'device replacement rate'



• It is not yet clear how data from a mandated process will be gathered and held.

Market supplies suitable loads at 'device replacement rate'



DNO leads engagement with customer



DNO leads engagement with customer and runs auction process (or pays third party to do this)



DNO leads engagement with customer and runs auction process (or pays third party to do this)