

ENA Open Networks

Workstream 1A – Product 3 (2020 WS1A:P3)

Active Power Services Parameters

Workstream 1A – Product 3 (2020 WS1A:P3) Active Power Services Parameters aims to deliver further alignment in the procurement of active power services and simplify participation in multiple markets. This product is a continuation of work under 2018 and 2019 WS1A P2 that defined four active power service products that all DNOs can procure; Sustain, Secure, Dynamic and Restore. This document lists and describes the parameters related to the four Flexibility Products. At this stage the product group are seeking to establish a set of common definitions for terms and parameters related to the Flexibility Products.

Table 1 – Defined Terms for Flexibility Product Parameters

Index	Defined Term	Definition
1	Aggregated	A Flexibility Service made up from more than one DER or DER group.
2	Available	Means that the Flexibility Services from the Flexibility Provider have been made available to the DNO and could requested following a Utilisation Instructions .
3	Baseline Capacity	The capacity against which the Flexible Capacity is measure.
4	Contractible/Contracted	Agreed / agreeable between the DNO and Flexibility Provider .
5	DER	Means the electricity generators, electricity storage or electrical load, and other site and provider equipment, machinery, apparatus, materials and other items used for the provision of the Flexibility Services .
6	DNO	Distribution Network Operator.
7	Flexibility Provider	The owner or operator of the DER used for the provision of the Flexibility Services .
8	Flexibility Service	The services to be provided by the Flexibility Provider to the DNO which gives the DNO the ability to manage the load at a specific point of the Network at certain points in time.
9	Flexible Capacity	Is the power capacity, in megawatts (MW), that a Flexibility Provider can manage in order to provide a Flexibility Service .
10	Network	Refers to the distribution network for which the DNO is responsible.
11	Non-Aggregated	A Flexibility Service made of exactly one DER or DER group.
12	Utilisation Instruction	Means an instruction by the DNO to the Flexibility Provider to deliver a Flexibility Service .
13	Zone	Means the area in which the Flexibility Services are to be delivered or the feeding area of the DERs being managed.

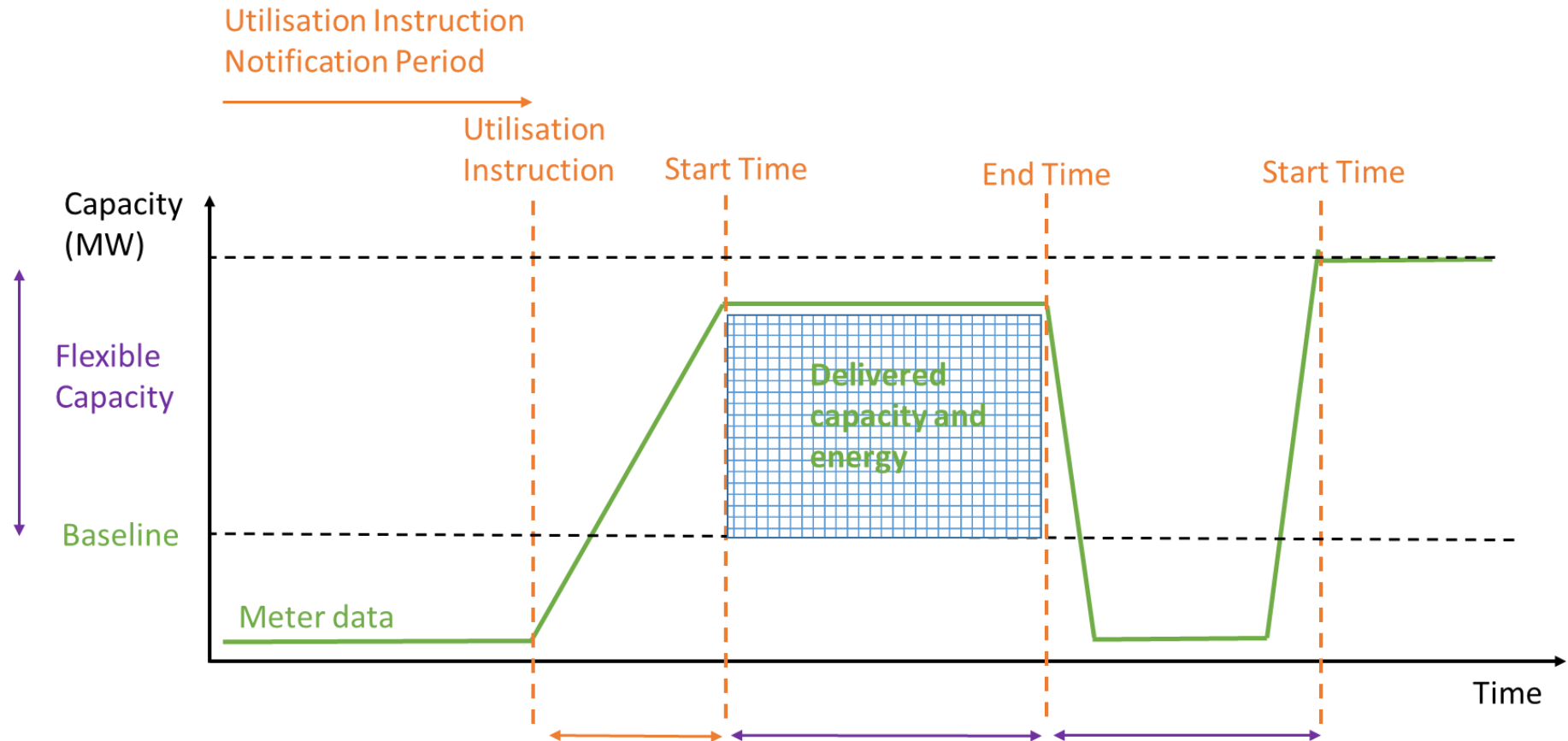
Table 2 – Description of DNO Defined Parameters for the Sustain, Secure, Dynamic & Restore Flexibility Products

Index	Flexibility Product Parameter	Description	Units	Define By
1	Minimum Non-Aggregated Flexible Capacity	The minimum Non-Aggregated Flexible Capacity a Flexibility Provider may make Available to the DNO . DNO defined parameter.	Power (MW)	DNO
2	Minimum Aggregated Flexible Capacity	The minimum Aggregated Flexible Capacity a Flexibility Provider may make Available to the DNO . DNO defined parameter.	Power (MW)	DNO
3	Minimum Utilisation Duration Capability	The minimum amount of time a Flexibility Provider must be able continually hold their Contacted Flexible Capacity , in minutes. DNO defined parameter.	Time (minutes)	DNO
4	Minimum Utilisation	The minimum amount of time a DNO will require the provision of a Flexibility Service from a Flexibility Provider , following a Utilisation Instruction . DNO defined parameter.	Time (minutes)	DNO
5	Maximum Ramping Period	The maximum allowed time, once a Utilisation Instruction has been issued or becomes active, for a Flexibility Provider to reach their Contracted Flexible Capacity . DNO defined parameter.	Time (minutes)	DNO
6	Availability Agreement Period	The time period before a Flexibility Service is required by a DNO , in which the DNO and Flexibility Provider may agree the Flexibility Provider's Availability Window . DNO defined parameter.	Time (month, weeks)	DNO
7	Utilisation Instruction Notification Period	The time period before a Flexibility Service is required by a DNO , in which a DNO may issue a Utilisation Instruction to a Flexibility Provider for the provision of a Flexibility Service . DNO defined parameter.	Time (month, weeks)	DNO
8	Utilisation Instruction Method	The method by which an instruction is issued by the DNO to a Flexibility Provider for the delivery of a Flexibility Service . DNO defined parameter.	N/A	DNO
9	Metering Requirements	The time interval for the measurement of electrical energy by the Flexibility Provider , in minutes. DNO defined parameter.	Time (minutes)	DNO

Table 3 – Description of Flexibility Provider Defined Parameters for the Sustain, Secure, Dynamic & Restore Flexibility Products

Index	Flexibility Product Parameter	Description	Units	Define By
1	Flexible Capacity	See defined terms. This is usually agreed at the contract stage. Flexibility Provider defined parameter.	Power (MW)	Flexibility Provider
2	Maximum Daily Number of Utilisation Instructions	The maximum number of times per day a DNO may issues a Utilisation Instruction to a Flexibility Provider. Flexibility Provider defined parameter.	Number (n)	Flexibility Provider
3	Recovery Time	The minimum amount of time required between the end of a Flexibility Service delivery and the commencement of the next Flexibility Service .	Time (minutes)	Flexibility Provider
4	Minimum Utilisation per Utilisation Instruction	The minimum amount of time a Flexibility Provider can provide a Flexibility Service to a DNO for a single Utilisation Instruction , in minutes. Flexibility Provider defined parameter.	Time (minutes)	Flexibility Provider
5	Maximum Utilisation per Utilisation Instruction	The maximum amount of time a Flexibility Provider can provide a Flexibility Service to a DNO for a single Utilisation Instruction , in minutes. Flexibility Provider defined parameter.	Time (minutes)	Flexibility Provider
6	Maximum Daily Utilisation	The maximum amount of time a Flexibility Provider shall provide Flexibility Services to a DNO in a single day, in minutes. Flexibility Provider defined parameter.	Time (minutes)	Flexibility Provider
7	Maximum Weekly Utilisation	The maximum amount of time a Flexibility Provider shall provide Flexibility Services to a DNO in a single week, in minutes. Flexibility Provider defined parameter.	Time (minutes)	Flexibility Provider
8	Availability Window	A time period that Flexibility Provider makes a Flexibility Service Available to DNO .	Time (minutes)	Flexibility Provider

Figure 1 - Flexibility Service Parameters



Key

Utilisation parameters

Flexibility Provider defined parameter

Measured or Calculated parameter