

## Main document changes and comments

Page 1: Added	Elia ECL Team	03/10/2025 23:02:00
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1.

Page 1: Deleted	Elia ECL Team	03/10/2025 23:02:00
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DETAILS ARE LIKELY TO CHANGE IN THE FUTURE.

Page 2: Added	Elia ECL Team	03/10/2025 23:02:00
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Limited details are likely to change in the future. The overall design & architecture should not.

Page 5: Deleted	Elia ECL Team	03/10/2025 23:02:00
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before

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after

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Page 5: Added	Elia ECL Team	03/10/2025 23:02:00
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03/10/2025

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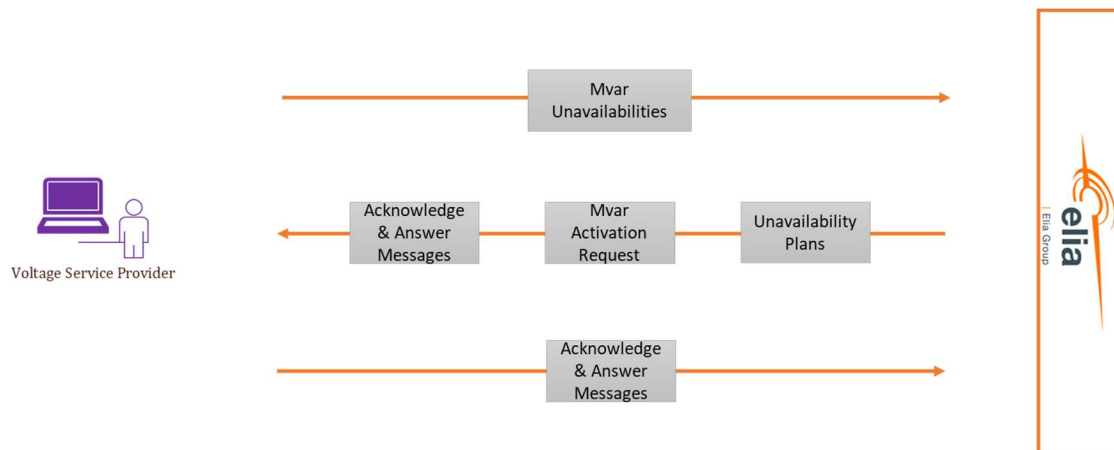
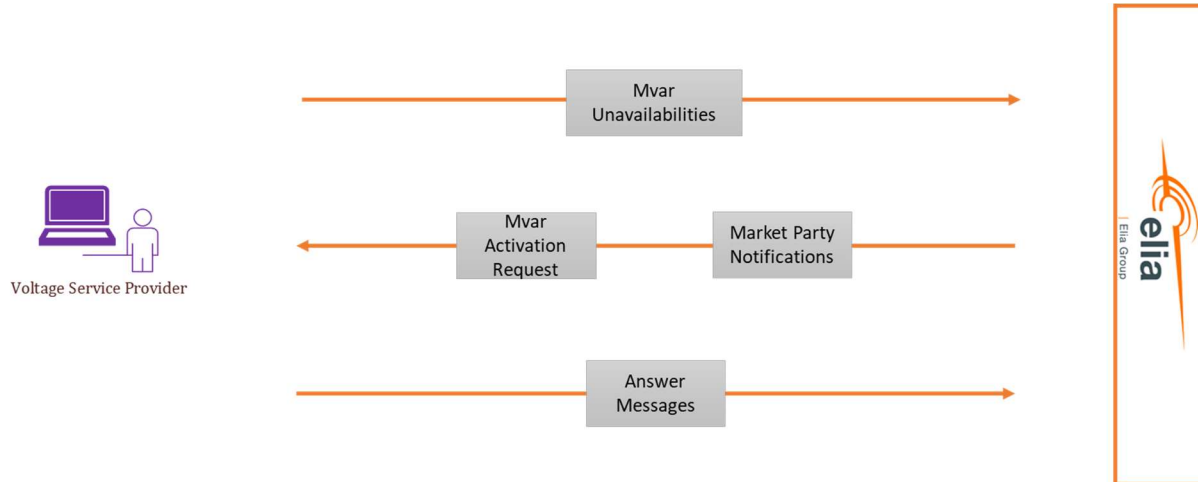
Version containing description of both Outages and Activations

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Clement Hoedenaeken

<b>Page 5: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
Bram Deckers		
<b>Page 5: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
Clement.Hoedenaeken		
<b>Page 5: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
Bram.Deckers		
<b>Page 6: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
The		
<b>Page 6: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
Market Parties are invited to use the		
<b>Page 6: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
must be used by Market Parties (Voltage Service Providers)		
<b>Page 6: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
that will be released during Q2 2025.		
<b>Page 6: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
applicable from 1 <sup>st</sup> Jan 2027 and for which the ECL Go-Live is scheduled for 1 <sup>st</sup> Feb 2027.		
<b>Page 6: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
CIM		
<b>Page 6: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
Common Information Model (CIM)		
<b>Page 6: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
assets		
<b>Page 6: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
, Power Saving Mode		
<b>Page 6: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
acknowledgment messages		
<b>Page 6: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
service control type events		
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if the main communication channels fail.



- In case of issues in both channels, phone and email could also be used.

This part will be detailed during Q2 2025

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- Phone calls
- Emails

Page 10: Added Elia ECL Team 03/10/2025 23:02:00

**Attention Point:**

The Go-Live of the CIM-based ECL will occur on 1<sup>st</sup> of February 2027.

Before that date, the MVAR Activation messages and their acknowledgment messages will be exchanged using the legacy messaging system Revolt, with phone calls and emails as backup systems. This corresponds to the system in use in 2025 and 2026. Messages related to the entrance or exit of Power Saving Mode will not be received by Elia before the 1<sup>st</sup> of February 2027. Other availability messages will be either sent through the webclient or through phone calls or emails.

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**Note II: Upcoming RabbitMQ version upgrade consideration**

In the near future, we will need to upgrade our RabbitMQ version, necessitating a transition from classic queues to quorum queues. The impact should be only on ELIA side and therefore transparent for VSPs.

Page 11: Deleted Elia ECL Team 03/10/2025 23:02:00

current

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already connected to ELIA for the icaros project

Page 13: Deleted Elia ECL Team 03/10/2025 23:02:00

i

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e

Page 13: Deleted Elia ECL Team 03/10/2025 23:02:00

Una

Page 13: Added Elia ECL Team 03/10/2025 23:02:00

E

Page 13: Deleted Elia ECL Team 03/10/2025 23:02:00

ailibili

Page 13: Added Elia ECL Team 03/10/2025 23:02:00

en

Page 13: Deleted Elia ECL Team 03/10/2025 23:02:00

y

Page 15: Deleted Elia ECL Team 03/10/2025 23:02:00

MvarUnavailabilityAnswered

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MvarEvent

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Una

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E

Page 16: Deleted Elia ECL Team 03/10/2025 23:02:00

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en

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y

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MVARUnavailabilitySubmitted

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MvarEventSubmitted

Page 18: Added Elia ECL Team 03/10/2025 23:02:00

- in iso format ISO 8601. For example 2029-04-01T00:00:00.000Z.

Page 24: Deleted Elia ECL Team 03/10/2025 23:02:00

3

Page 24: Added Elia ECL Team 03/10/2025 23:02:00

2

Page 27: Deleted Elia ECL Team 03/10/2025 23:02:00

a

<b>Page 27: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
the		
<b>Page 27: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
<a href="#">(This section will be published in detail in a later version of the document).</a>		
<b>Page 27: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
Acknowledgement MarketDocument.		
<b>Page 27: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
in iso format ISO 8601 (for example: 2029-04-01T00:00:00.000Z )		
<b>Page 27: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
s		
<b>Page 28: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
ActivationRequestAnswered).		
<b>Page 28: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
MvarEventAnswered.		
<b>Page 29: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
(currently not foreseen to be used)		
<b>Page 29: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
(currently not foreseen to be used)		
<b>Page 29: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
or waiting for confirmation (Y99) in		
<b>Page 29: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
code		
<b>Page 29: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
include		
<b>Page 29: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
be included to detail		
<b>Page 29: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
reason code described in the validation rules		
<b>Page 29: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
rejection.		
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("Message fully accepted" or "Message fully rejected")

<b>Page 29: Added</b> <b>Elia ECL Team</b> <b>03/10/2025 23:02:00</b>		
details	N	(if any) details to help pinpoint the reason for the issue.

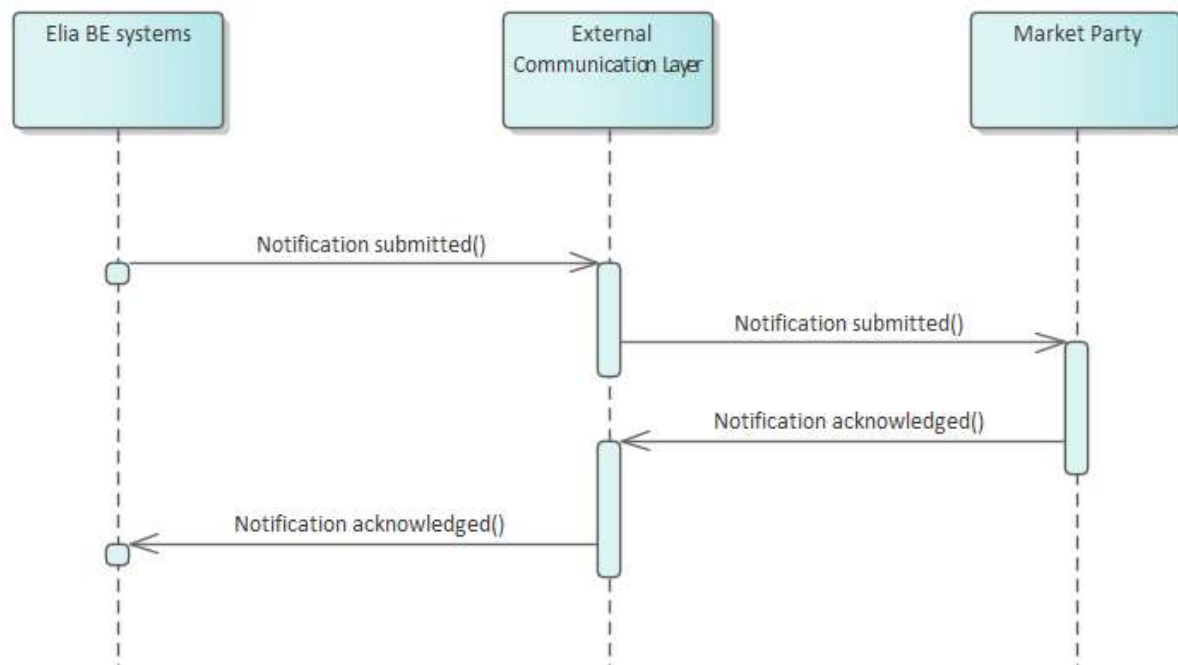
<b>Page 30: Deleted</b> <b>Elia ECL Team</b> <b>03/10/2025 23:02:00</b>		
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This notification allows

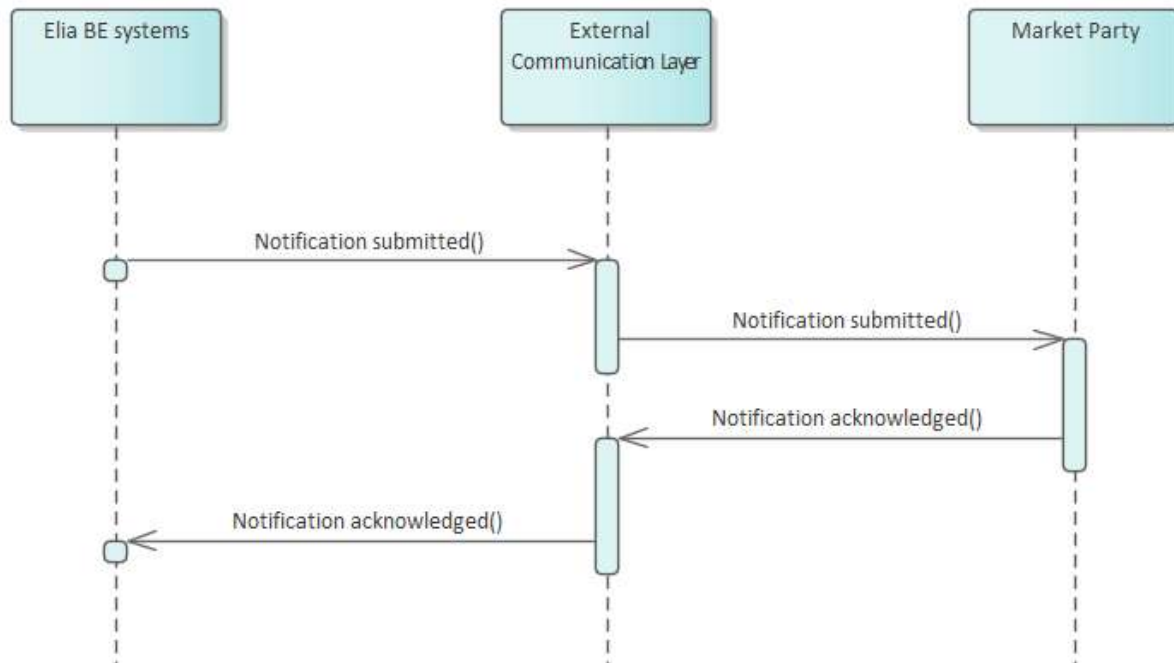
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Notification messages allow Elia

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<b>Page 30: Added</b> <b>Elia ECL Team</b> <b>03/10/2025 23:02:00</b>		
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A27 = Resource

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Z02 = Scheduling Agent

A46 = Balancing Service

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Z03 = Outage Planning Agent

A27 = Ressource Provider (used for Voltage Service Provider)

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(see

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This section will be worked out in detail in during Q2 of 2025

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using

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(availabilities changes, ...)

1.

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main

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- In case of issues in both channels, phone and email could also be used.

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- Phone calls
- Emails

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All

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First, all

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Qmin and Qmax.

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Qtech min and Qtech max (as defined in Annex 1 of the VSP terms & conditions)

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- Depending on the reactive power availability logic declared by the VSP in Annex 1 of the VSP contract, Elia will use OPA and/or SA data to determine a preliminary Availability Status for each Technical Unit of the VSP for all the years up to year+3. It is then the responsibility of the VSP to make corrections of reactive power availability that could not be concluded from OPA and/or SA data.

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These events could have an impact on the power grid and must therefore be announced 1 month in advance at least.

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Notes:

The band could be set to 0 for any of those events or any other fixed value if setting Qmin=Qmax.  
Some events can be submitted more than 3 years in advance even though the availability plan is not yet generated.

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Notes:

- The band could be set to 0 for any of those events or any other fixed value if setting  $Q_{min}=Q_{max}$ .
- Some events can be submitted more than 3 years in advance even though the availability plan is not yet generated.

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service

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service

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three

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four

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- Manual mode unavailable: Controlling units can declare that they can only do automatic control. Therefore they must declare they can not use their manual mode.
- Automatic control unavailable: Controlling units can declare that they can only do manual control as their automatic control mode is unavailable.

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A power saving mode can either have an end date or none. In case no end date is specified, the exiting power saving mode message is expected in order to end the event.

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Return to contractual

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Exiting power saving

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or manual

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only. The availability plan

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- with no end date.
- In case an end date was not specified for a delivery point, the exiting power saving mode indicates the mode has ended.

In case of power saving mode with end date, exiting power saving mode

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have no impact. The correct way would		
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reset		
Page 34: Added	Elia ECL Team	03/10/2025 23:02:00
<ul style="list-style-type: none"> <li>to amend the end of the power saving mode. If the exiting power saving mode has no start date, it is assumed the exit happens at the time of reception.</li> </ul> <p>If the exiting power saving mode has a start date, the power saving mode will be assumed</p>		
Page 34: Added	Elia ECL Team	03/10/2025 23:02:00
end at		
Page 34: Deleted	Elia ECL Team	03/10/2025 23:02:00
contractual values		
Page 34: Added	Elia ECL Team	03/10/2025 23:02:00
start date time		
Page 35: Added	Elia ECL Team	03/10/2025 23:02:00
<ul style="list-style-type: none"> <li>In any case, the end date for a exiting power saving mode message will not be considered.</li> </ul>		
Page 35: Added	Elia ECL Team	03/10/2025 23:02:00
s		
Page 35: Deleted	Elia ECL Team	03/10/2025 23:02:00
refused		
Page 35: Added	Elia ECL Team	03/10/2025 23:02:00
asked to be changed		
Page 35: Added	Elia ECL Team	03/10/2025 23:02:00
s		
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.		
Page 35: Added	Elia ECL Team	03/10/2025 23:02:00
and not mandatory.		
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control service type event		
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power saving mode events		

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(section still in development)

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(mvar events are both service control type and unavailability events)

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(section still in development)

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unavailability

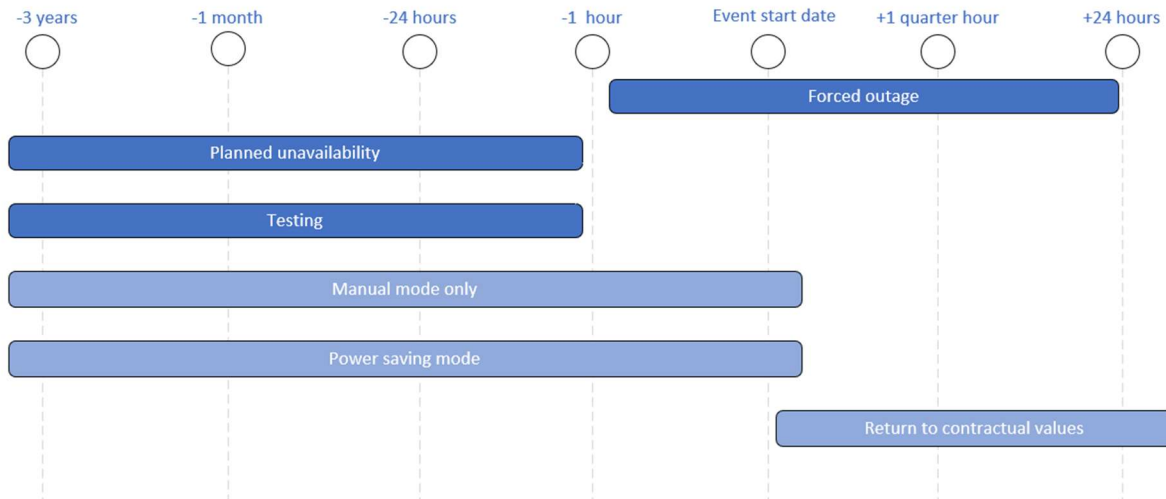
Page 36: Added	Elia ECL Team	03/10/2025 23:02:00
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mvar

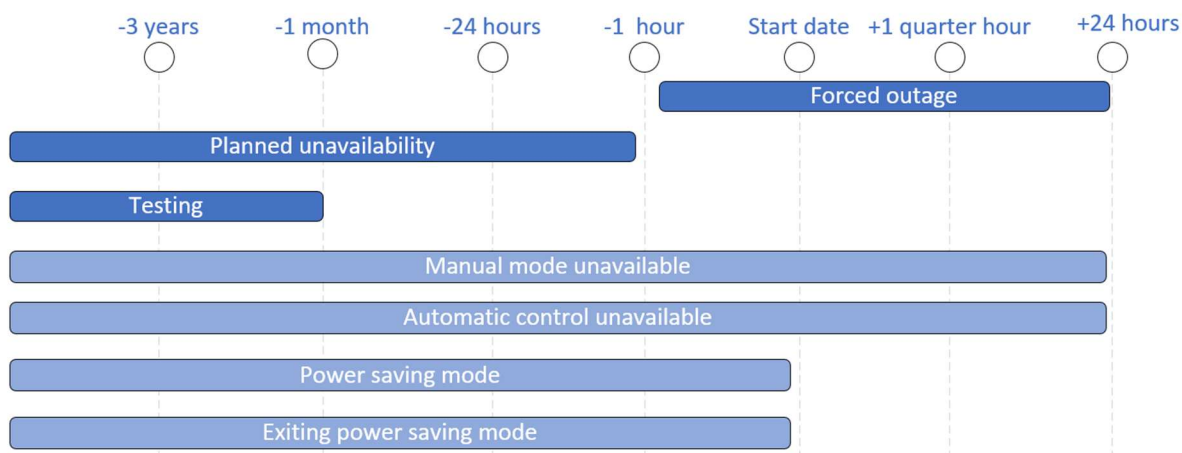
Page 36: Deleted	Elia ECL Team	03/10/2025 23:02:00
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This image must be updated in a future version of this Guide to be aligned with the T&C.

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li

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i

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return to contractual value

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exiting power saving mode

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another service control type event

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an entering power saving mode message was sent

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Z17

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Z01 = Short term unavailability information

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Z19 = Voltage Unavailability Information

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XXX = VSP

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A27 = Ressource Provider

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. In isoformat ISO 8601 .

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reason_code	Y	Three different codes are allowed Y231="Human" Y232="Technical" Y233= "Other"
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Reason

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reason\_text

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This list can contain two elements and allows additional free text information to contextualize the mvar event.

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Free text box (Minimum 10 characters & 1 blank space)

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maximum available capacity is used

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qmin and qmax are applicable

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Reason
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Field	Mandatory	Description
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code	Y	The code that represents the reason A95 = Complementary information (additional information on the unavailability) or
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		Y30 = Remarks (more detailed information on the event that allows a full understanding of its potential impact)
text	Y	Both codes allow free text

**Page 39: Added** **Elia ECL Team** **03/10/2025 23:02:00**

(can be negative)

**Page 39: Added** **Elia ECL Team** **03/10/2025 23:02:00**

(can be negative)

**Page 39: Added** **Elia ECL Team** **03/10/2025 23:02:00**

**To be noted:** Contrary to all other events, power saving mode is not expected to have a known end date. Therefore two messages are foreseen. One when entering the mode and one when exiting the mode. It is also possible to use the end date if desired.

**Page 39: Deleted** **Elia ECL Team** **03/10/2025 23:02:00**

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**Page 39: Added** **Elia ECL Team** **03/10/2025 23:02:00**

Z18

**Page 39: Deleted** **Elia ECL Team** **03/10/2025 23:02:00**

service control type

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Service Control Type

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XXX=tbld

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Z19 =Voltage Service Control Type Information

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XXXX = VSP

**Page 39: Added** **Elia ECL Team** **03/10/2025 23:02:00**

A27 = Resource Provider

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in iso format ISO 8601.

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Y

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N

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Identifies the nature of the service control type event. The following codes are used

XXX = Manual mode only

XXX = Power saving mode

XXX = Return to contractual values

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Not used at the moment, field can nevertheless be sent empty or with anything.

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reason	Y	Three different values are allowed "Technical", "Human" or "Other"
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Reason

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reason\_details

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This list can contain two elements and allows additional free text information to contextualize the service control type event.

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Free text box (Minimum 20 characters & 4 blank spaces)

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A

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a

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Reason		
Field	Mandatory	Description
codePoint	Y	<p>The code that represents the reason</p> <p><b>A95</b> = Complementary information (additional information on Lists of points associated to the period.</p> <p>It should contain as many points as needed to complete the period. If only 1 point is given, it is assumed that the same service control type event) or</p>

		<b>Y30</b> = Remarks (more detailed information on the event that allows a full understanding of its potential impact)is applicable for the entire period.
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Point

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The code that represents the reason

**A95** = Complementary information (additional information on

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Lists of points associated to the period.

It should contain as many points as needed to complete

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period. If only 1 point is given, it is assumed that the same

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event) or

**Y30** = Remarks (more detailed information on the event that allows a full understanding of its potential impact)

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is applicable for the entire period.

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text	Y	Both codes allow free text
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Point
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Field	Mandatory	Description
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position	Y	The interval number defining which position in the period is indicated. It must start at 1.
serviceControlType	Y	Accepts the following values: "Manual mode unavailable", "automatic mode unavailable", "Power saving mode", "Exiting power saving mode",

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/Y

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. The field is optional only for power saving mode entry or exit.

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d

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s

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OPA

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VSP

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ding

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t

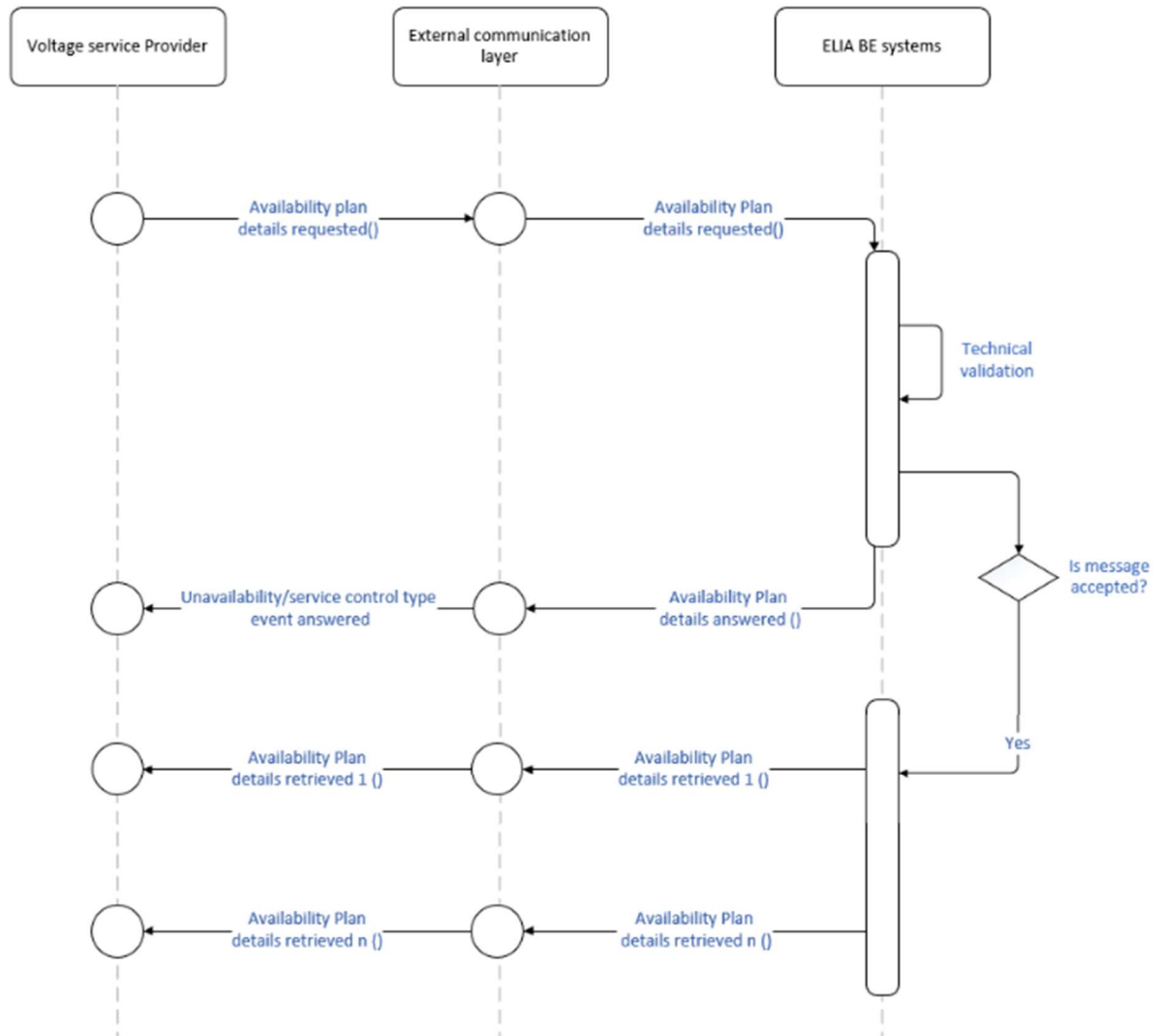
<b>Page 42: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
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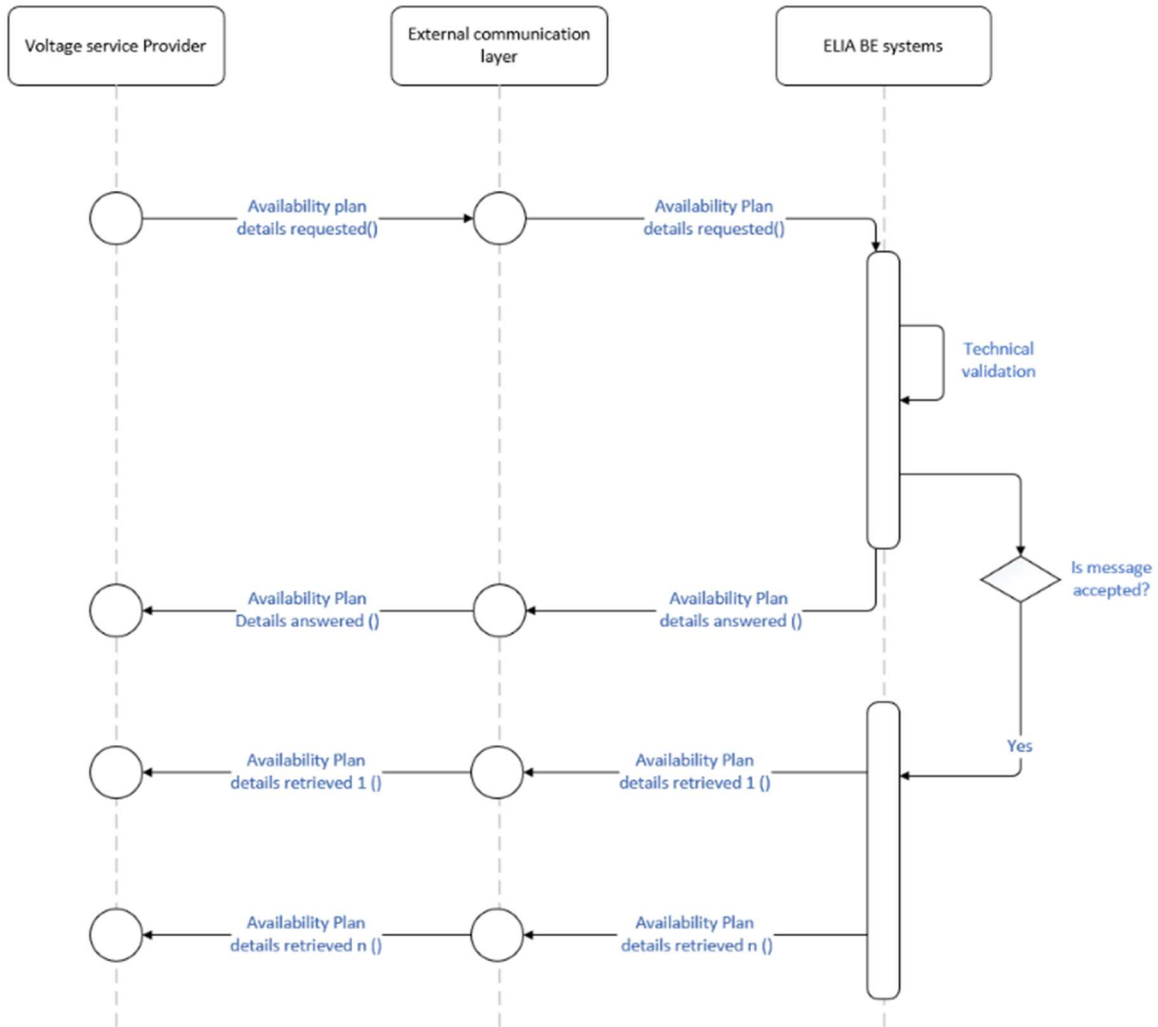
external communication layer

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External Communication Layer

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Page 43: Added	Elia ECL Team	03/10/2025 23:02:00
(section still in development)		

1.1.1

Page 43: Added	Elia ECL Team	03/10/2025 23:02:00
Mvar		

Page 43: Deleted	Elia ECL Team	03/10/2025 23:02:00
MVAR_AvailabilityPlanDetailsRequested		

Page 43: Added	Elia ECL Team	03/10/2025 23:02:00
MvarAvailabilityPlanDetailsRequested		

Page 43: Added	Elia ECL Team	03/10/2025 23:02:00
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Mvar

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MVAR\_AvailabilityPlanDetailsRetrieved

<b>Page 43: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
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MvarAvailabilityPlanDetailsRetrieved

<b>Page 43: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
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Mvar

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MVAR\_AvailabilityPlanDetailsAnswered

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MvarAvailabilityPlanDetailsAnswered

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(section still in development)

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Mvar

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MVAR\_AvailabilityPlanDetailsRequested

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MvarAvailabilityPlanDetailsRequested

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Mvar

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MVAR\_AvailabilityPlanDetailsRetrieved

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MvarAvailabilityPlanDetailsRetrieved

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Mvar

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MVAR\_AvailabilityPlanDetailsAnswered

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MvarAvailabilityPlanDetailsAnswered

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Page 44: Added	Elia ECL Team	03/10/2025 23:02:00
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Page 44: Added	Elia ECL Team	03/10/2025 23:02:00
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details

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Page 44: Added	Elia ECL Team	03/10/2025 23:02:00
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Requests will be limited in frequency and period for performance reasons as described in the validation rules.

Page 44: Deleted	Elia ECL Team	03/10/2025 23:02:00
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XXX

Page 44: Added	Elia ECL Team	03/10/2025 23:02:00
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Z25

Page 44: Deleted	Elia ECL Team	03/10/2025 23:02:00
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Page 44: Added	Elia ECL Team	03/10/2025 23:02:00
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Z26

Page 44: Deleted	Elia ECL Team	03/10/2025 23:02:00
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XXX = Voltage Service

Page 44: Added	Elia ECL Team	03/10/2025 23:02:00
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A27 = Resource

Page 46: Deleted	Elia ECL Team	03/10/2025 23:02:00
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XXX = Mvar

Page 46: Added	Elia ECL Team	03/10/2025 23:02:00
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Z27 = MVAR

Page 46: Deleted	Elia ECL Team	03/10/2025 23:02:00
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XXX =

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Z28 = MVAR

Page 46: Deleted	Elia ECL Team	03/10/2025 23:02:00
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XXXX

Page 46: Added	Elia ECL Team	03/10/2025 23:02:00
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Z29

Page 47: Added	Elia ECL Team	03/10/2025 23:02:00
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AvailabilityStatusDetail	N	Free text allowing to determine how the status was determined (via active power outage planning for example)
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Page 47: Deleted	Elia ECL Team	03/10/2025 23:02:00
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ContractualValues

Page 47: Added	Elia ECL Team	03/10/2025 23:02:00
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ExitingPowerSavingMode

Page 47: Deleted	Elia ECL Team	03/10/2025 23:02:00
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O

Page 47: Added	Elia ECL Team	03/10/2025 23:02:00
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AutomaticModeUnavailable= 3

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(section still in development)

1.1.1

Page 49: Added	Elia ECL Team	03/10/2025 23:02:00
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(section still in development)

Page 49: Deleted	Elia ECL Team	03/10/2025 23:02:00
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XXX

Page 49: Added	Elia ECL Team	03/10/2025 23:02:00
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Z25

<b>Page 49: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
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XXX

<b>Page 49: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
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Z30

<b>Page 49: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
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XXX = Voltage service provider

<b>Page 49: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
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A27= Resource Provider

<b>Page 51: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
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XXX

<b>Page 51: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
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Z27

<b>Page 51: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
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XXX

<b>Page 51: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
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Z30

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XXX = XXX

<b>Page 51: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
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A01 = detail type

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XXX = Voltage service

<b>Page 51: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
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A27= Resource

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XXXX

<b>Page 51: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
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Z29

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ContractualValues

<b>Page 52: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
ExitingPowerSavingMode		
<b>Page 52: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
O		
<b>Page 52: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
U		
<b>Page 52: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
avai		
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y		
<b>Page 52: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
able		
<b>Page 52: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
AutomaticModeUnavailable= 3		
<b>Page 53: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
(section still in development)		
1.1.1		
<b>Page 54: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
(section still in development)		
<b>Page 54: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
XXX		
<b>Page 54: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
Z30		
<b>Page 54: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
XXX		
<b>Page 54: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
Z31		
<b>Page 54: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
XXX		
<b>Page 54: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
Z32		

<b>Page 55: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
XXX		
<b>Page 55: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
Z33		
<b>Page 55: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
XXX = Voltage service		
<b>Page 55: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
A27= Resource		
<b>Page 55: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
N		
<b>Page 55: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
Y		
<b>Page 55: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
mRID of the requested		
<b>Page 55: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
mRID can be set here if a specific Market Document is requested.		
<b>Page 56: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
<b>Mvar availability plan overview</b>		
1.1.1.1		
<b>Page 56: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
<b>Retrieving mvar events</b>		
1.1.1.1		
<b>Page 56: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
<b>_1</b>		
<b>Page 56: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
For the Voltage Service Provider, the foreseen use of the notification queues is mainly foreseen for settlement purposes (and the same information could also be sent via email depending on the market party preference).		
<b>Page 56: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
<b>(section still in development)</b>		
1.1.1		
<b>Page 56: Deleted</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>

Outage Planning Agent

<b>Page 56: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
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Voltage Service Provider

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MvarOu

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<b>Page 56: Added</b>	<b>Elia ECL Team</b>	<b>03/10/2025 23:02:00</b>
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Service

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Outage Planning Agent

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Voltage Service Provider

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Service

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Page 56: Added	Elia ECL Team	03/10/2025 23:02:00
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Outage Planning Agent

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Voltage Service Provider

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Outage Planning Agent

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Voltage Service Provider

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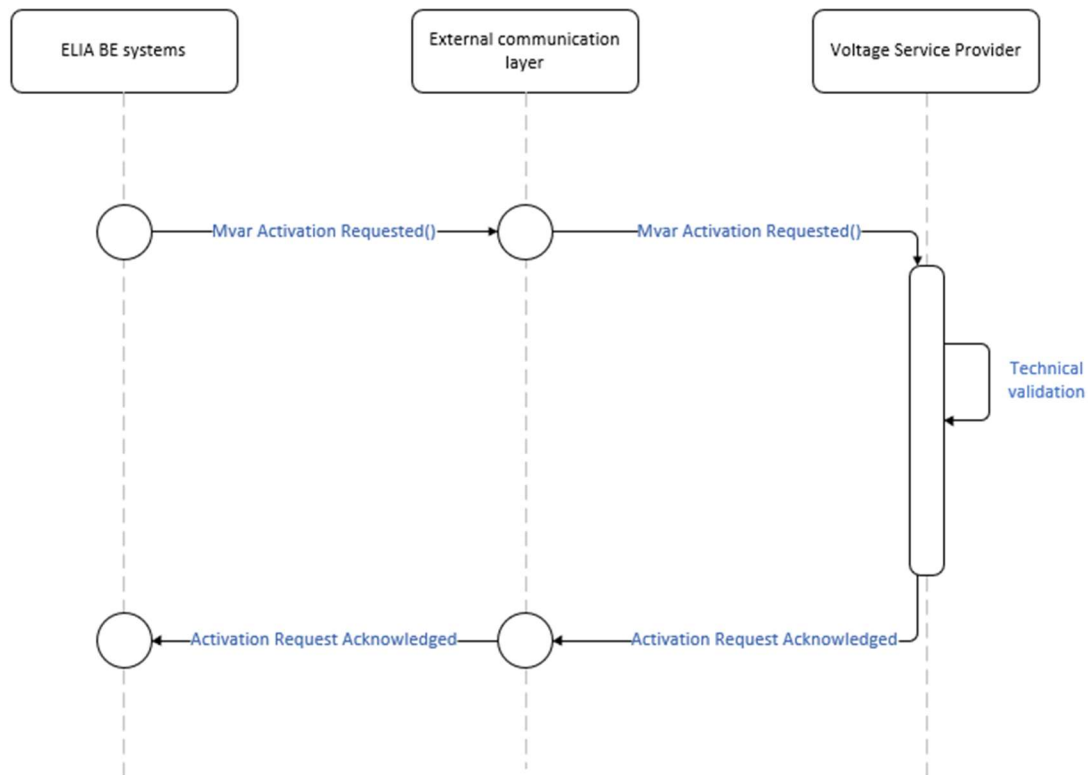
## 1.1 Receiving a mvar activation request

### 0.0.0 Description

Elia will send asynchronous mvar activation requests messages to the VSP.

VSP will generate one acknowledgement:

- *Acknowledgement indicates the good reception of the activation request message*



All communications in this flow are done asynchronously.

#### 0.0.0 Queue information (section still in development)

This table contains the queues and exchanges to send and receive messages in a normal scenario:

Message Type	Description	Sender	Receiver	Queue/Exchange
<b>MvarActivation Requested</b>	Activation request	Elia	VSP	MvarActivationRequested.[TargetMarketPartyID].OutQ
<b>MvarActivation Request Acknowledged</b>	Reception confirmation of an activation request message	VSP	Elia	MvarActivationAcknowledged.In.Exch

#### Error queues (section still in development)

This table contains the queues and exchanges to send and receive message only in case of error:

Message Type	Sender	Receiver	Queue/Exchange
<b>Mvar Activation Requested</b>	VSP	Elia	MvarActivationRequested.Error.Exch
<b>MvarActivation Request Acknowledged</b>	Elia	VSP	MvarActivationAcknowledged.[TargetMarketPartyID].ErrorQ

## 0.0.0 Activation requested message

### 0.0.0.0 Message granularity

A mvar activation request message groups all selected DPs from a respective VSP.

### 0.0.0.0 Message timeframe

The mvar activation request message can be sent at any time. The ramping starts immediately or at least starts at the timing mentioned in the message.

The start and end times communicated in the activation request message will be used as the reference for the setpoint target and remuneration.

### 0.0.0.0 Message description

An Activation Market Document is the message that is used to request a mvar activation.

Activation_MarketDocument (Exactly one element per message)		
Field	Mandatory	Description
mRID	Y	Unique identifier for the MarketDocument
revisionNumber	Y	Version number for the MarketDocument.
Type	Y	Code for type of MarketDocument. <b>A40</b> = Mvar Activation Document
sender_MarketParticipant.mRID	Y	The identification of the sender (EIC code) <b>10X1001A1001A094</b> = Elia
sender_MarketParticipant.marketRole.type	Y	The role code associated with receiver. Fixed value: <b>A04</b> = System Operator
receiver_MarketParticipant.mRID	Y	The identification of the receiver (EIC code)
receiver_MarketParticipant.marketRole.type	Y	The role code associated with the receiver: <b>A27</b> = Ressource Provider
createdDateTime	Y	The timestamp on which the message was sent
rampingStartTime	Y	The start of the ramping of the DP
activation_Time_Period.timeInterval	Y	This information provides the start and end date and time of the activation time interval
TimeSeries	Y	Timeseries associated to the market document.  It must contain at least one element.

TimeSeries		
Field	Mandatory	Description
mRID	Y	Unique identifier for the TimeSeries
businessType	Y	Identifies the reason why an activation is requested. <b>Z21</b> = Normal <b>Z23</b> = Start-Up
process.processType	Y	Code for type of process.

		<b>Z24</b> = Process with End Time <b>Z22</b> = Process without End time
measurement_Unit.name	Y	<b>MAR</b> (MegaVar)
RegisteredResource	Y	DPs associated to timeseries. It must contain at least one element.

RegisteredResource		
Field	Mandatory	Description
mRID	Y	External Unique identifier of the DP to be activated
timeInterval	Y	The start and end date and time of the mvar activation.
flowDirection.direction	Y	The coded identification of the direction of energy flow. <b>A01</b> = UP <b>A02</b> = DOWN
Point	Y	List of points associated to the period.
resolution	Y	Amount of time for each interval in which a data value is defined. <b>PT1M</b> = 1 minutes

timeInterval		
Field	Mandatory	Description
start	Y	The start date and time of the interval
end	Y	The end date and time of the interval

Point		
Field	Mandatory	Description
position	Y	The interval number defining which position in the timeseries is indicated. It must start at 1.
setPoint	Y	The Mvar Setpoint that is requested. We require an accuracy of 0.1 Mvar.

## 0.0.0 Activation acknowledged message

### 0.0.0.0 Message granularity

One mvar activation acknowledgement must be sent for each mvar activation request submitted by Elia.

### 0.0.0.0 Message timeframe

This acknowledgement must be sent immediately after the reception of the mvar activation request message.

### 0.0.0.0 Message description

As described in the definition of acknowledgement message (see

).

### 0.0.0 Back-up activation request message

As mentioned in chapter

, a back-up communication channel is put in place for the sending of activation request messages.

If Elia does not receive an activation acknowledged message within a reasonable timeframe after the sending of the activation requested message, Elia will automatically trigger the back-up process.

#### Activation requested message

The mvar activation requested message will be sent via e-mail to the contractual 24/7 email address provided by the VSP.

Title of the message: Elia – Activation Request – Mvar – Start Date and Time – End Date and Time

*Example: Elia – Activation Request – Mvar – 05/10/2023 12:45 – 05/10/2023 17:00*

Body of the message:

Hello – ELIA has not received a technical acknowledgement after an activation was requested.

This message serves as a back-up communication for the below mvar activation:

<b>Start time</b>	<b>DP</b>
Requested setpoint	List of DP EAN included in the activation request

Example:

<b>12:45</b>	<b>DP</b>
25,0	541453137445795650;541453127036684861

Attachement:

The Mvar activation requested message described in Chapter

initially sent to the VSP (JSON) will be included as attachement to the email.

## Activation acknowledged message

Activation acknowledged message will be accepted via e-mail but are not compulsory for the good execution of the process. Such message has to be sent to

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for the DEMO environment).

The validation rules applied to the Activation acknowledged message will be similarly applied to the Activation acknowledged message sent via email.

Title of the message: VSP Name – Activation acknowledged message – Mvar – Start Date and Time – End Date and Time

*Example:* VSP1- Activation acknowledged message – Mvar – 05/10/2023 12:45 – 05/10/2023 13:00

Body of the message:

Nothing is expected in the body of the message. Any content added in the body of the message will be accepted but disregarded by Elia.

Attachement:

The Activation acknowledged message described in Chapter

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that should have been sent via ECL by the VSP(JSON) has to be included as attachement to the email.

## 1.8 Receiving a mvar communication test

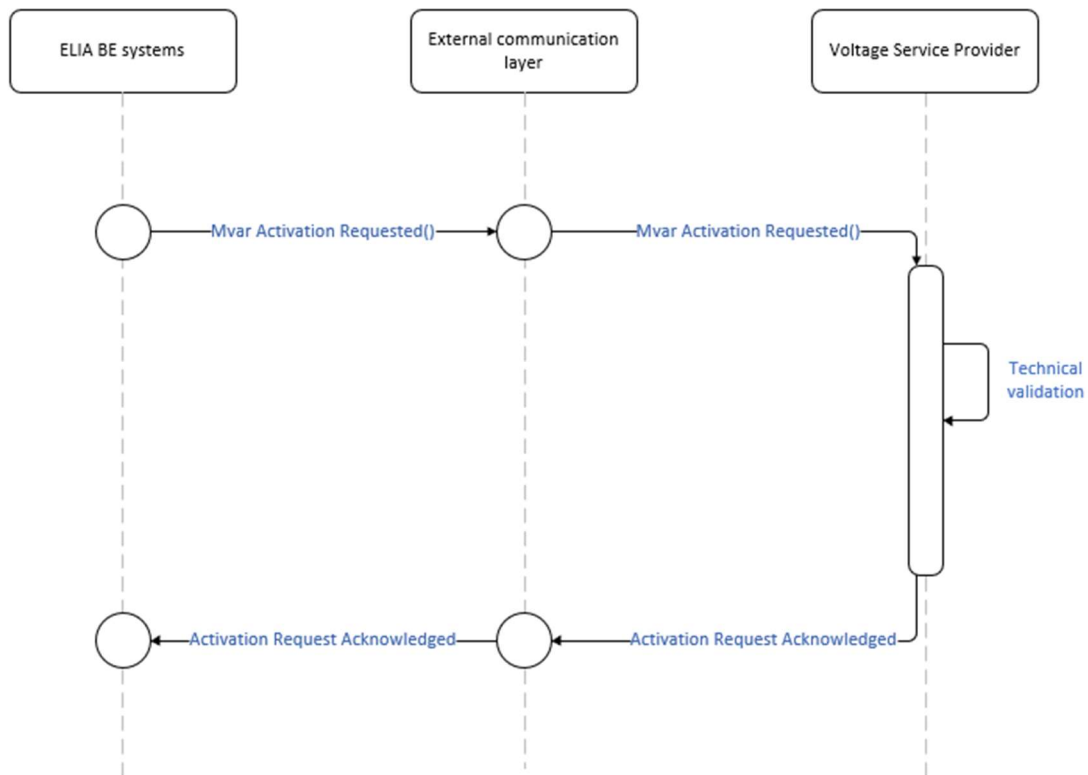
### 0.0.0 Description

The goal of the test is to test the communication between Elia and voltage service provider. Therefore, the communication test will go through the same communication layers as an activation.

A communication test has an activation message with a specific DP EAN: “999999999999999999”.

After reception of the activation message in the communication test, the voltage service provider generates one acknowledgement :

- Acknowledgement indicates the good reception of the communication test request message



All communications in this flow are done asynchronously.

#### 0.0.0 Queue information (section still in development)

This table contains the queues and exchanges to send and receive messages in a normal scenario:

Message Type	Description	Sender	Receiver	Queue/Exchange
<b>MvarActivation Requested</b>	Activation request	Elia	VSP	MvarActivationRequested.[TargetMarketPartyID].OutQ
<b>MvarActivation Request Acknowledged</b>	Reception confirmation of an activation request message	VSP	Elia	MvarActivationAcknowledged.In.Exch

#### Error queues (section still in development)

This table contains the queues and exchanges to send and receive message only in case of error:

Message Type	Sender	Receiver	Queue/Exchange
<b>Mvar Activation Requested</b>	VSP	Elia	MvarActivationRequested.Error.Exch

MvarActivation Request Acknowledged	Elia	VSP	MvarActivationAcknowledged.[TargetMarketPartyID].ErrorQ
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## 0.0.0 Activation requested message

### 0.0.0.0 Message granularity

Similarly to a mvar activation request, a mvar communication test message groups all selected DPs from a respective VSP.

### 0.0.0.0 Message timeframe

The mvar communication test message can be sent at any time. The ramping starts immediately or at least starts at the timing mentioned in the message.

The start and end times communicated in the communication test message will be used as the reference for the setpoint target and remuneration.

### 0.0.0.0 Message description

An Activation Market Document is the message that is used to request a mvar communication test.

Activation_MarketDocument (Exactly one element per message)		
Field	Mandatory	Description
mRID	Y	Unique identifier for the MarketDocument
revisionNumber	Y	Version number for the MarketDocument.
Type	Y	Code for type of MarketDocument. <b>A40</b> = Mvar Activation Document
sender_MarketParticipant.mRID	Y	The identification of the sender (EIC code) <b>10X1001A1001A094</b> = Elia
sender_MarketParticipant.marketRole.type	Y	The role code associated with receiver. Fixed value: <b>A04</b> = System Operator
receiver_MarketParticipant.mRID	Y	The identification of the receiver (EIC code)
receiver_MarketParticipant.marketRole.type	Y	The role code associated with the receiver: <b>A27</b> = Ressource Provider
createdDateTime	Y	The timestamp on which the message was sent
rampingStartTime	Y	The start of the ramping of the DP
activation_Time_Period.timeInterval	Y	This information provides the start and end date and time of the activation time interval
TimeSeries	Y	Timeseries associated to the market document.  It must contain at least one element.

TimeSeries		
Field	Mandatory	Description



#### 0.0.0.0 Message timeframe

This acknowledgement must be sent immediately after the reception of the mvar communication test message.

#### 0.0.0.0 Message description

As described in the definition of acknowledgement message (see

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This section will be worked out in detail during Q2 of 2025

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#### 0.0.0 Error codes

Each validation rule will send back a specific reason code (in addition to the error text).

The error code can be found in each error section.

When EIC codes were not existing for the specific error, custom codes were created. Those codes start with the letter “Y” and will be discussed with ENTSO-E in the future. Nevertheless, they are not expected to change in the short term.

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or for any other reason leading to a potential impact on the grid operation

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overview/details

1.1.1.1

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overview/details

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#### 1.1.1.1 Mvar event requests

Mvar event requests are messages sent by market parties in order to get returned a specific event sent by them earlier.

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#### Conditions

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#### 1.1.1 for all Mvar events

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#### 1.1.1.1 A VSP can not submit events for delivery points belonging to another VSP

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A VSP can only submit events for delivery points on which he has VSP contractual rights/obligations (as defined in its VSP contract).

Error code: Y200

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#### 1.1.1.1 Versioning & ids

Each event must have a unique ID & version number (per VSP).

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Error code: Y201

#### 0.0.0.0 Each unavailability event must have a valid reason

In TimeSeries > reason, only three values are allowed: "Technical", "Human", "Other". Any other value will lead to the rejection of the message (capitalization does not matter).

Error code: Y202

#### 0.0.0.0 Each unavailability event must be accompanied by reason details

In TimeSeries > reason\_details, the values must at least be 10 characters long and contain 1 blank space.

Error code: Y203

#### 0.0.0.0 Technical start and end date limitations

The start\_DateAndOrTime.date and end\_DateAndOrTime.date are limited in order to avoid unlogical or overloading submissions.

The start\_DateAndOrTime.date can not be more than 10 years in the future from the submission date.

The end\_DateAndOrTime.date (if specified) can not be more than 10 years in the future from the submission date.

Error code: Y211

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, with Qmin lower than or equal to Qmax

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- Qmin and Qmax are numbers (float)

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Error code: Y204

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Error code: Y205

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Error code: Y206

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Error code: Y207

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#### 1.1.1.1 A VSP can not submit events for delivery points belonging to another VSP

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A vsp can only submit events for delivery points on which he has contractual rights/obligations (as defined in its VSP contract).

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#### 1.1.1.1 Versioning & ids

Each event must have a unique ID & version number (per VSP).

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"Forced outage", "planned unavailability" and "testing"

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the three following values

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. Other named events will be rejected

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as businessType in the Timeseries of an unavailability event

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**A53** = Planned Maintenance (Planned

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events can only concerns delivery points defined in the VSP contract.

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Events for delivery points not mentioned in a VSP contract will be rejected.

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**A54** = Unplanned Outage (Forced Outage)

**B83** = Testing

Error code: A62

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**Each unavailability event must be accompanied by a reason**

Reason will be a free text field which, mandatorly, must be filled in for each unavailability event.

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Error code: Y38

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Those events will be rejected after a manual verification.

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In such cases, Elia will contact the market party to find an arrangement.

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Error code: None is this rule is an exception to the normal timeframe rules.

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*Example*

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*Valid examples that are not rejected*

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6hours

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6 hours

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2hours

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2 hours

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Error code: Y209

#### **0.0.0.0 The unit of measure should be MAR**

In TimeSeries > quantity\_Measure\_Unit.name : value should always be "MAR" (=MVAR in CIM model)

Error code: Y210

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Error code: Y212

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quarter-hour (24hours) in the past

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quarter-hour (24 hours) in the past. Note that in the terms and conditions, 1 hour for past submission is mentioned. In case of misuse it is possible that the delay would be reduced to the contractual value

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End date conditions of forced outage not defined yet

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Conditions

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might be set on end date of forced outage but are yet to be defined.

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hour

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monthr

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hour

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month (=30 days=30\*24hours)

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Control

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## types

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## control type

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## only

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unavailable”, “Automatic control unavailable

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”, “Exiting power saving mode

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## Manual

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Error code: Y215

## Automatic

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## only

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## unavailable

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they are entering manual

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their automatic

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is unavailable

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supposed to already be in it. Message will thus be rejected.

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not having one.

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Error code: Y216

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by

1111

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for

1111

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mode

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Return to contractual mode

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Error code: Y217

Exiting power saving

1111

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for units

1111

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by unit

1111

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manual mode only or powering

1111

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## power

1.1.1.1

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### 1.1.1.1 with no end date.

Exiting power saving mode is a

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beforehand

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sent to signal the power saving mode with no end date has finished. In case such underlying event does not exist, the message makes no sense and will therefore be rejected. In case of a power saving mode with an end date, an update of the end date is expected.

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The return to contractual mode message can not be submitted for a unit who has not deviated from it contractual mode. Such a message would have not impact and therefore can only result from an issue on the sender side and will be rejected.

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Error code: Y218

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### 1.1.1.1 more than 24 hours after it happened.

Controls service type events will be rejected if they are submitted with a start date more than 24 hours in the past.

Error code: Y219

## Power saving mode events can not be

1.1.1.1

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Controls service type

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Power saving mode

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Error code: Y220



## MarketDocuments

This section will be worked out in detail in during Q2 of 2025

This chapter contains the technical definition of the MarketDocuments used for all messages exchanged through the Elia External Communication Layer.

Header and footer changes

Text Box changes

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### Note II: Upcoming RabbitMQ version upgrade consideration

In the near future, we will need to upgrade our RabbitMQ version, necessitating a transition from classic queues to quorum queues. The impact should be only on ELIA side and therefore transparent for VSPs.

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Notes:

- The band could be set to 0 for any of those events or any other fixed value if setting  $Q_{min}=Q_{max}$ .
- Some events can be submitted more than 3 years in advance even though the availability plan is not yet generated.

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Notes:

- The band could be set to 0 for any of those events or any other fixed value if setting  $Q_{min}=Q_{max}$ .
- Some events can be submitted more than 3 years in advance even though the availability plan is not yet generated.

Header and footer text box changes

Footnote changes

Endnote changes