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Swiss market liberalisation project, technical connection of power plants

Supplementary document for definition of the PIA ID

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0.2	08.08.2008	G. Hoogenraad / BT-MD	Corrections based on input from Mr Schild (BKW)
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Abbreviations

AS Ancillary Services
GU Generating Unit
PP Power Plant



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1 Summary

This document is supplementary to the document «Requirements for monitoring data» (Swiss Market Liberalisation Project, PP technical connection) of 17 July 2008. The names given to signals in this document do not correspond to the definition in the PIA system. Since it was decided to use PIA for online data transmission until PIA2 is put into operation, the names for PIA must be regulated separately.

This document describes the naming convention to be followed for PIA IDs until PIA2 is put into operation.

2 Composition of the PIA ID in PIA

The PIA ID is a name consisting of up to 30 characters. The following table shows the composition of the ID.

Description	Bytes from	Bytes up to	Length
Partner code	1	4	4
Subsystem	5	6	2
Plant name	7	х	1 to.4
Plant code	x+1	x+3	2
Voltage code	x+4	x+4	1
Field or outlet name	x+5	у	1 to 10
Object code	y+1	y+3	3
PIA type code	y+4	y+7	4

2.1 Partner code

The partner code is the abbreviation for the partner who provides these data points on the PIA network, as defined in the PIA.

2.2 Subsystem

Abbreviation for the local IT system of the PIA data provider.



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2.3 Plant name

The four-digit abbreviation for a plant. This is defined by the PIA data provider. The following plant codes and plant texts can be used for monitoring the ancillary service.

Type of AS	PIA plant name	PIA plant text	
Primary control, pool	SPRP	AS primary pool	
Secondary control, GU	SSEE	AS secondary generator	
Secondary control, pool	SSEP	AS secondary pool	
Tertiary control, pool	STEP	AS tertiary pool	
Voltage support, GU	SSPE	AS voltage generator	

2.4 Plant code

Indicates the type of plant. For monitoring the AS, this is always PP (power plant).

2.5 Voltage code

The voltage level at which the measurement was taken. For monitoring AS, this is always S (system, without voltage)).

2.6 Field or outlet name

The field from which the measurements are taken. For monitoring the AS, this is the name of the generator or pool, and must be no more than ten characters.

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2.7 Object code

The following table shows the coding of the transmitted values.

Signal type from main document	PIA object code	PIA object name	Primary control pool	Secondar y control GU	Secondar y control, pool	Tertiary control pool	Voltage support GU
Performance value	KMH	Figure in [MW/Hz]:	Х				
Pist	M_P	Measured value of active power	х	х	х		х
Pmin	GMN	Minimum limit value	х		x		
Pmax	GMX	Maximum limit value	х		x		
Prefpos	GPO	Positive limit value	х				
Prefneg	GNE	Negative limit value	х				
IstBeteiligt	R60	Status of participation in the control		х			
Qist	M_Q	Measured value of reactive power					х
Qmin	GMN	Minimum limit value					х
Qmax	GMX	Maximum limit value					х
Uist	M_U	Measured value of voltage					х
Pup	GPO	Positive limit value				Х	
Pdown	GNE	Negative limit value				х	

Some fields in this table are light brown. These are new object codes that will be distributed with NeDB Version 7.00.

There are six new object codes in total (KMH, GMN, GMX, GPO, GNE and R60).

2.8 PIA type code

Defines the type of transmission (spontaneous / cyclical / with or without time stamp / priority / etc.).

For monitoring the AS, this is usually MW06 (type description: measured value, data type: physical value, transmission type: cyclical, time stamp: without, priority: 3).