

CONTENTS

INTRODUCTION.....	5
1 Scope.....	6
2 Normative references	7
3 Terms and definitions	7
4 Abbreviated terms	8
5 General	8
6 Information exchange models overview	9
7 Operational functions.....	11
7.1 General.....	11
7.2 Association and authorisation model.....	11
7.3 Control model	12
7.3.1 General	12
7.3.2 Direct control / Select before operate (SBO)	13
7.3.3 Operate / TimeActivatedOperate	13
7.3.4 Normal security / Enhanced security.....	13
7.4 Monitoring, reporting and logging model	13
8 Management functions.....	15
8.1 General.....	15
8.2 User management/access security model	15
8.3 Setup model.....	15
8.4 Time synchronisation model	15
8.5 Diagnostic (self-monitoring) model.....	15
9 The ACSI for wind power plant information models	16
9.1 General.....	16
9.2 Services of association and authorisation	16
9.3 Services of GenServerClass	17
9.4 Services of GenLogicalDeviceClass.....	17
9.5 Services of GenLogicalNodeClass	17
9.6 Services of GenDataObjectClass	17
9.7 Services of DataSetClass	18
9.8 Services of ReportControlBlockClass.....	18
9.9 Services of LogControlBlockClass and LogClass	19
9.10 Services of ControlClass	20
Annex A (informative) Examples of reporting and logging services.....	21
A.1 Reporting example	21
A.2 Logging example.....	22
Annex B (normative) Relationship between ACSI services and functional constraints	23
Annex C (informative) Relationship between ACSI defined in IEC 61850-7-2 and IEC 61400-25-3	25
Annex D (normative) ACSI conformance statement.....	27
D.1 General.....	27
D.2 ACSI basic conformance statement	27
D.3 ACSI models conformance statement	27
D.4 ACSI service conformance statement	29
Bibliography	31
Annex ZA (normative) Normative references to international publications with their corresponding European publications.....	32

Figure 1 – Conceptual communication model of the IEC 61400-25 series	7
Figure 2 – Association and authorisation model (conceptual)	11
Figure 3 – Control model (conceptual).....	12
Figure 4 – Monitoring, reporting and logging model (conceptual)	14
Figure 5 – Conceptual information exchange model for a wind power plant	16
Figure 6 – Buffered report control block – conceptual	19
Figure 7 – Log control block – conceptual	20
Figure A.1 – Mapping of information models to data sets for reporting (example)	21
Figure A.2 – Logging basics (example).....	22
Figure C.1 – Conceptual service model of the ACSI.....	26
Table 1 – Information exchange models	10
Table 2 – Comparison of the information retrieval methods	15
Table 3 – Data filter	19
Table B.1 – Relationship between ACSI Services and Functional Constraints	23
Table D.1 – Basic conformance statement.....	27
Table D.2 – ACSI models conformance statement	28
Table D.3 – ACSI service conformance statement	29
Table D.4 – Time	30