

## Network Performance Distribution System SCADA (DSS) Capability Project

## **Project Note**

Note Number	1
Title	Glossary
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Version	0.9(a)
Release Date	
File Name	TechnologyPlanGlossaryForIEEE-DA-WG.doc

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Term	Synonym(s)	Definition and References
ACR	Recloser	Automatic Circuit Recloser. A compact CB (often pole-mounted) having embedded automatic reclosing capability.
Adequacy		The ability of the network to meet demand within component ratings and voltage limits. Source: RAP Guidelines.
ALF		Analog Logging Facility. A specialised RDC used for feeding SCADA data to the viewing and logging subsystems.
Bandwidth		The capacity provided by a communication channel or used by a communicating application.
BPL		Broadband over PowerLine. A technology that utilizes power lines to transport data at broadband speeds.
CAIDI		Customer Average Interruption Duration Index. See also SAIDI and SAIFI. The group CAIDI contribution of an incident is calculated as sum(Customer Interruption Duration in Group) / (Number of Customers Affected in Group). CAIDI = SAIDI / SAIFI.
СВ		Circuit Breaker. A switching device capable of making and breaking load current, and interrupting fault current.

Term	Synonym(s)	Definition and References
CBD		Central Business District (feeder category). Defined as
		feeders supplying predominantly commercial, high-rise
		buildings via a predominantly underground distribution
		network containing significant interconnection and
		redundancy when compared with urban areas.
CBMD		Communications Bearer Management Database. The
		system of record for the ENERGEX communications
		bearer network configuration.
CDB		Communications DataBase (SLECS DMS). The DMS
		database which contains (a) configuration data for the
		SCADA communications subsystem, and (b) real-time
		SCADA communications subsystem status.
CFI		Cable Fault Indicator (underground). A device which
		indicates the passage of fault current, indicating that a
		fault is located downstream of the CFI's location.
CIM		Common Information Model (generic term). <i>The</i> CIM is
		an information model for power systems and related
		secondary systems and computer applications. It is
		maintained (in part) by the CIM Users Group under the
		aegis of the UCA Users Group.
Concept of	ConOps	A Concept of Operations (ConOps) is a user-oriented
Operations	·	document that describes system characteristics for a
·		proposed system from the users' viewpoint. The
		ConOps document is used to communicate overall
		quantitative and qualitative system characteristics to the
		user, buyer, developer, and other organisational
		elements (for example, training, facilities, staffing, and
		maintenance). It is used to describe the user
		organisation(s), mission(s), and organisational
		objectives from an integrated systems point of view. For
		more information, see IEEE Standard 1362-1998, IEEE
		Guide for Information Technology - System Definition -
		Concept of Operation Document.
Configuration (1)		The topology of an electrical network together with the
(electrical network)		open and closed states of switching devices.
Configuration (2)		The hardware, software, firmware, ancillary data and
(system)		documentation of a system.
Configuration		The control (for quality assurance purposes) of changes,
management		including the recording thereof, that are made to the
		configuration of a system.
DEM		Database Edit Manager. A subsystem for loading,
		validating and applying / rolling back changes to the
		DMS databases.
Disconnector	Isolator	A switching device which provides safety isolation.
DMS		Distribution Management System. A computer system
		used for monitoring, controlling and optimising the
		performance of an electricity distribution system.
DNP3		Distributed Network Protocol, version 3. An open
		SCADA communications protocol supported by the DNP
		User Group. Used for IED-SACS and DSS
		communications.
DNSP		Distribution Network Service Provider.
Downstream		Away from the source of supply.
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Term	Dropout  DSA  DSS  ECS  Enterprise Management System(s) Failure Rate  Fast Tracking  Fault  FI  GED	DO, EDO	A HV fuse with a replaceable element which is enclosed in a tubular ablative carrier. The fuse element supplies structural rigidity to an over-centre mechanism such that when the element blows, the mechanism collapses under gravity to isolate the faulted circuit. Ablation of the carrier generates gases which expel the element and contribute to arc extinction (the E in EDO stands for
structural rigidity to an over-centre mechanism such that when the element blows, the mechanism collapses under gravity to isolate the faulted circuit. Ablation of the carrier generates gases which expel the element and contribute to are extinction (the E in EDO stands for Expulsion).  DSA  DA  DA  DIstribution System Automation. A vague term used by some to mean Distribution System SCADA (as distinct from Substation SCADA) and by others to mean highly automated, self-healing capability.  DSS  Distribution System SCADA (as distinct from Substation SCADA) and by others to mean highly automated, self-healing capability.  ECS  Energy Control System (SLECS DMS). The DMS database which contains (a) configuration data for the SCADA data acquisition subsystem and (b) real-time SCADA data.  Enterprise  A system or systems for configuration management and monitoring of ICT infrastructure.  System(s)  Failure Rate  The number of failures per unit time in a population of components of the same type.  Fast Tracking  The accelerated execution of a proven process to achieve the required outcomes quickly.  Fault  The unintended flow of electrical energy to due to insulation failure.  FI  GED  Graphical Editor. A tool for maintaining DMS world maps.  GPRS  General Packet Radio Service. Extension of GSM for data communications.  Ground Wire  Shield Wire  A wire (or wires) strung above the conductors of an overhead line to protect the line from lightning strikes.  Global System for Mobile communications. The dominant technology for public mobile communications in urban Australia. See also GPRS.  Global System for Mobile communication networks for substation secondary systems (measurement, protection, interlocking, automation and SCADA).  Information & Communication Device. An electronic device having the following characteristics: (a) microprocessor-based. (b) multi-function and/or field configurable and/or field upgradeable, and (c) suitable for integration into a wider system. Intelligent Mirric Panel. An ENERGEX proprietary g	Enterprise Management System(s) Failure Rate Fast Tracking Fault FI GED	DA	structural rigidity to an over-centre mechanism such that when the element blows, the mechanism collapses under gravity to isolate the faulted circuit. Ablation of the carrier generates gases which expel the element and contribute to arc extinction (the E in EDO stands for
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			system configuration. Source: IEEE 1366-2003.
IP Internet Protocol. The network layer of the TCP/IP	IP		
protocol suite, which is the common language of the			
Internet.			

Term	Synonym(s)	Definition and References
ISDN		Integrated Services Digital Network. An international
		standard for an enhanced, circuit-switched "telephone"
		network based on digital technology. IDSN supports
		integrated voice, video and data services. Its strength
		lies in the ability to flexibly multiplex and aggregate
		channels.
Isolator		See disconnector.
LAN		Local Area Network. A computer network that spans a
		relatively small geographical area.
LBS		Load Break Switch. A switching device capable of
		making and breaking load current. May also serve as a
		disconnector.
LFI		Line Fault Indicator (overhead). A device which indicates
		the passage of fault current, indicating that a fault is
		located downstream of the LFI's location.
LGVT		Last Good Value Trapped. The most recent stable, non-
		zero value of an analogue SCADA point (for load
		currents, effectively the current before a fault
		interruption).
Long Rural		Feeder category. Defined as non-CBD, non-Urban
		feeders having a total feeder route length greater than
		200km. See also Short Rural.
LV		Low Voltage (240/415V).
MAIFI		Momentary Average Interruption Frequency Index. The
		group MAIFI contribution of an incident is calculated as
		(Number of Customers Affected in Group) / (Total
		Customers in Group), where the incident is an outage of
		less than one minute's duration.
Mature		Complete in the developmental sense. The term must be
		used carefully: A material may be mature but its
		application in a new field may not.
MCP		MicroSACS Communication Protocols. An ENERGEX
		proprietary SCADA communications protocol suite used
		for DSS communications.
MDI		Maximum Demand Indication. The maximum averaged
		value of an analogue SCADA point in a defined period.
		SACS provides four 15-minute-average MDIs for each
		analogue SCADA point – today, yesterday, last week,
MDO		and since last reset.
MDO		Master dropout. A dropout fuse used to protect a feeder
Microcontroller	MicroSACS	spur - thereby improving the reliability of the backbone.  An ENERGEX proprietary IED, which was produced in
Microcontroller	MICIOSACS	two "flavours" – Poletop Microcontroller for DSS, and CB
		Microcontroller for Substation SCADA.
MOPs		Message Operations. DMS services for accessing the
IVIOFS		"messaging" capabilities of RDCCOM (typically used for
		setting and querying SACS application parameters).
NetCore		Network – Configuration Of Remote Equipment. The
14010010		system of record for the ENERGEX SCADA system
		configuration.
Network		The performance of the network business, and
Performance		especially of the network itself
NFM		Network Facilities Management. The system of record
. 41 141		for ENERGEX network assets.
OPGW		OPtical Ground Wire. A ground wire containing
		embedded optical fibres for communications.
	_1	omboddod optiod horos for communications.

Term	Synonym(s)	Definition and References
Outage		The state of a component when it is not available to perform its intended function due to some event. An outage may or may not cause an interruption of service to customers, depending on system configuration.  Source: IEEE 1366-2003.
PDB		Power DataBase (SLECS DMS). The DMS database which contains (a) configuration data for the power system applications (including the network model), and (b) real-time results from the power system applications.
Performance		A single, aggregate or composite characteristic of an organisation, system or component, typically used for comparative evaluation.
PLC		Programmable Logic Controller. An electronic device capable of executing user-specified combinatorial and sequential logic functions. Physical input and output interfaces can be configured for a wide range of applications. Commonly used in industrial process control systems. Can be self-contained or modular. Midrange and high-end PLCs can be networked with other PLCs and user interface devices.
PMR		Pole-Mounted Recloser. See ACR.
Point		In the SCADA world, separate items of data are called points. Points can be accompanied by ancillary data such as the date/time of acquisition and quality codes (in IT parlance, a point is therefore a <i>record</i> , not a single value). Each point has a unique address (or <i>key</i> ), usually a two-part address comprising a globally unique RTU address followed by a locally unique database address within the RTU.
Protocol (communication)		A set of rules for communications interoperability. Protocols are typically implemented in "layers" where each layer addresses a distinct set of concerns, eg. physical (electrical or optical) interconnection, media access, data link control, networking, reliable end-to-end transport, session control, data presentation, and application functions.
PSTN		Public Switched Telephone Network. The telephone network which provides POTS (Plain Old Telephone Service) to the general populace.
RAP		Reliability Assessment Planning. A planning methodology which balances the cost of load a risk against the cost of risk mitigation.
RDC		Remote Data Concentrator. A computer used for data marshalling and protocol translation in a SCADA system. Typically located so as to minimise the cost and maximise the performance of SCADA communications links. May support ancillary functions and power system applications.
RDCCOM		RDC COMmunication protocol. An ENERGEX proprietary SCADA communications protocol used for SACS-RDC and RDC-DMS communications.
Recloser		See ACR.
Redundancy		The duplication of components in a system with a view to improving system security.
Reliability (network)		(1) A measure of network performance relating to interruptions. IEEE 1366 defines a host of reliability indices. This glossary contains the definitions for CAIDI, MAIFI, SAIDI and SAIFI. Source: IEEE 1366-2003.  (2) A general term covering the adequacy and security of supply over time. Source: RAP Guidelines.

Term	Synonym(s)	Definition and References
RTU		Remote Terminal Unit. A device or system which
		interfaces objects in the physical world to a SCADA
0.100		system.
SACS		Substation Automatic Control System. An ENERGEX
		proprietary SCADA RTU / application platform based on
SAIDI		open standards.  System Average Interruption Duration Index. See also
OAIDI		CAIDI and SAIFI. The group SAIDI contribution of an
		incident is calculated as sum(Customer Interruption
		Duration in Group) / (Number of Customers in Group).
		SAIDI = CAIDI x SAIFI.
SAIFI		System Average Interruption Frequency Index. See also
		CAIDI and SAIDI. The group SAIFI contribution of an
		incident is calculated as (Number of Customers Affected
		in Group) / (Number of Customers in Group). SAIFI = SAIDI / CAIDI.
SCADA		Supervisory Control And Data Acquisition. Remote
CONDIN		monitoring and control of network facilities.
Scheme		A collection of network components (eg. adjacent
		feeders and the associated switching devices, fault
		indicators and regulators) likely to be collectively
		involved in DSS / DSA operations.
Sectionaliser		A switching device (typically a LBS) having embedded
		automatic sectionalising capability. May also serve as a disconnector.
Security (1)		The ability of a system to cope with perturbing events
Security (1)		such as component failures without uncontrolled loss of
		load. Source: RAP Guidelines.
Security (2)	Information	Protection of the confidentiality, integrity and availability
	Security	of information.
Short Rural	Rural	Feeder category. Defined as non-CBD, non-Urban
		feeders having a total feeder route length less than
SICM		200km. See also Long Rural.  Serial Interface Control Module. An ENERGEX
SICIVI		proprietary IED, typically used as a distributed data
		acquisition and control module in SACS systems.
SLECS		SNC Lavalin Energy Control Systems. The manufacturer
		of ENERGEX's DMS.
Step Voltage	Regulator	A compact autotransformer (generally pole mounted)
Regulator		having an on-load tapchanger and embedded automatic
		voltage regulating capability. ENERGEX generally
		applies single phase step voltage regulators in pairs for three-phase voltage regulation by adjustment of two
		phase-phase voltages.
Substation SCADA		SCADA for substation facilities.
Switching device	Switch	A CB, ACR, sectionaliser, LBS or disconnector.
TCO		Total Cost of Ownership. The cost of owning, operating
		and maintaining a component or system. TCO includes
		the up-front costs of equipment and licences, plus the
		costs of installation, training, support, upgrades and repairs.
TCP		Transmission Control Protocol. The reliable end-to-end
101		transport layer of the TCP/IP protocol suite, which is the
		common language of the Internet. TCP is "layered" on
		top of IP.
Topological space		A structure that allows one to formalize concepts such
		as connectedness and continuity.
Topology (1)		The branch of mathematics that studies topological
		spaces.

Term	Synonym(s)	Definition and References
Topology (2)		A pattern which orders the arrangement of nodes and
(logical)		branches in a network, eg. ring, star.
Topology (3)		The arrangement of nodes and branches in a network.
(physical)		See also Configuration (electrical network).
UCA		Utility Communications Architecture. A set of standards
		for communications and interoperability between power
		system secondary systems and computer applications.
		Initially developed by EPRI, the UCA has since been divested to IEC TC57 for ongoing development. User
		input into the UCA is managed (in part) by the UCA
		International Users Group. Key focus areas of the UCA
		include the CIM and the IEC 61xxx suite of standards.
Upstream		Toward the source of supply.
Urban		Feeder category. Defined as non-CBD feeders having a
		maximum demand greater than 300kV.A per kilometre of
		total feeder route length. See also Rural.
UtiliNet		UtiliNet is a proprietary technology which uses spread
		spectrum radios operating in the unlicensed 900 MHz
		band to provide wireless networking for SCADA
		applications.
WAN		Wide Area Network. A computer network that spans a
		relatively large geographical area. Typically, a WAN
W 00144		consists of two or more interconnected LANs.
W-CDMA		Wideband Code Division Multiple Access. The emerging
		technology of choice for public mobile communications in Australia.
WiFi	IEEE 802.11x	A suite of International Standards for wireless local area
VVIII	(802.11a, 802.11b,	networks.
	802.11g)	networks.
World Map	Picture	A graphical display on which ECS, PDB and static data
		may be displayed in any useful combination.
ZigBee		ZigBee is a specification for a suite of high level
		communication protocols designed to use small, low
		power digital radios based on the IEEE 802.15.4
		standard for wireless personal area networks (WPANs)
		operating in the unlicensed 900MHz band. ZigBee's
		current focus is to define a general-purpose,
		inexpensive, self-organizing mesh network that can be
		can be used for industrial control, embedded sensing,
		medical data collection, smoke and intruder warning,
		building automation, home automation, etc.