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This section describes the Data Processing Functions implemented to allow Semios to use PHEMI Central.

For information about supported data types, see Data Types in Queries

DPF Metadata

This section describes the metadata generated when a Semios log entry is processed.

Name	Type	Description
datasource	admin	The identifier of the data source.
document_status	admin	The status of the document. Supported values are as follows:
		• X • Y • Z
source_of_data	admin	TBD
data:chunks	data	TBD
encoding	data	The encoding algorithm used to encode the document. Supported values are as follows:
		• X • Y • Z
encryption_key	data	The encryption key used to encrypt the document. Supported values are as follows:
		• X • Y • Z
encryption_type	data	The type of encryption used to encrypt the document. Supported values are as follows:
		• X • Y • Z
hash	data	The hash algorithm used to secure the document. Supported values are as follows:
		 X Y Z

Name	Туре	Description
size	data	The size of the document. Supported values are as follows: • X • Y • Z
type	data	The document type. Supported values are as follows: • X • Y • Z
asset_type	descriptive	The assigned type of the digital asset. Supported values are as follows: • X • Y • Z
asset_type	descriptive	The assigned type of the digital asset. Supported values are as follows: • X • Y • Z
name	descriptive	A mnemonic name for the document. Supported values are as follows: • X • Y • Z
metadata_checksum	header	A checksum for verifying the integrity of the message. Supported values are as follows: • X • Y • Z
process_information	header	 ???. Supported values are as follows: X Y Z
system_indentifier	header	???. Supported values are as follows:XYZ

Name	Туре	Description
version	header	The version of software running on the system. Supported values are as follows:

DPF Processed Tags

This section describes the derived data that the Semios DPF extracts from log messages.

Name	Туре	Description
id	STRING	The unique identifier of the log message.
log_timestamp	STRING	The timestamp of the message. Log timestamps are received and persisted "as is"; that is, as type STRING. All dates and timestamps must be sent in ISO 8601 format (for example, 2014-06-23T19:35:00-07:00) TPHEMI system also uses this format for aggregations. For aggregations, all dates and times must be local, in order to align with the local time clock, so, for example, a day extends from midnight to midnight local time.

DPF Processed Data

This section describes the data that is processed for Semios log messages.

Name	Туре	Description
latitude	DOUBLE	??. Format is XXXX:
longitude	DOUBLE	??. Format is XXXX:
mac	STRING	The Media Access Control (MAC) address of the sending system. Format is a six-octet number expressed in hexadecimal.
timezone	STRING	The timezone of the sending system.

Name	Туре	Description
ALGAD	LONG	TBD
ack	LONG	TBD
app_version	STRING	TBD
awake	LONG	TBD

Name	Туре	Description
battery	LONG	TBD
bridge_reboot	LONG	TBD
conf	LONG	TBD
dev_installed	LONG	TBD
device_model	STRING	TBD
dew_point	DOUBLE	TBD
env_ambient_ temperature_celsius	DOUBLE	TBD
env_ambient_ temperature_fahrenheit	DOUBLE	TBD
env_humidity_percent	DOUBLE	TBD
error_code	LONG	TBD
errors	LONG	TBD
event_error	LONG	TBD
firmware_version	STRING	TBD
humidity	LONG	TBD
image_count	LONG	TBD
ir_off	LONG	TBD
ir_on	LONG	TBD
last_error	LONG	TBD
lithium	LONG	TBD
model	LONG	TBD
modem_reboot	LONG	TBD
moisture_0_15	LONG	TBD
moisture_105_120	LONG	TBD
moisture_15_30	LONG	TBD
moisture_30_45	LONG	TBD
moisture_45_60	LONG	TBD
moisture_60_75	LONG	TBD
moisture_75_90	LONG	TBD
moisture_90_105	LONG	TBD
node_missed	LONG	TBD
node_type	LONG	TBD
node_unknown	LONG	TBD
os_reboot	LONG	TBD
os_version	STRING	TBD

Name	Туре	Description
rain	LONG	TBD
raw_ambient_temperature	LONG	TBD
raw_board_temperature	LONG	TBD
raw_humidity	LONG	TBD
rte_depth	LONG	TBD
signal	LONG	TBD
solar	LONG	TBD
solar_radiation	LONG	TBD
spray_count	LONG	TBD
spray_on	LONG	TBD
temperature	LONG	TBD
temperature_15	LONG	TBD
temperature_45	LONG	TBD
temperature_75	LONG	TBD
temperature_90	LONG	TBD
thinkness	LONG	TBD
ttl_left	LONG	TBD
upload_time	LONG	TBD
uptime	LONG	TBD
uv_radiation	LONG	TBD
vm_error	LONG	TBD
wetness	LONG	TBD
wet_bulb	DOUBLE	TBD
wind_direction	LONG	TBD
wind_speed	LONG	TBD