Solar Analytics for Home Assistant - List of Sensors

	Solar Analytics for Home Assistant - List o				Author: Peter Hormann Date: 13-Feb-25		Note: sensors shown in italised text are raw/source sensors. They are generally not used for display Lovelace and modifying the state units will cause calculation errors.
	ТҮРЕ	SENSOR UNIQUE_ID	FRIENDLY NAME / ALIAS	YAML SOURCE	STATE	Attributes	DESCRIPTION
F				SOURCE	UNITS		
		STATUS SENSORS					
	site site	sa_dashboard_status sa_mer_status	Dashboard Status System Status	all all	text text	none none	Shows the Dashboard Status Shows the system Status
	site	sa_mer_percentage	PV Performance	all	%	none	Shows the System Status Shows the PV Performance percentage as reported by SA (Efficiency of Solar System)
		POWER SENSORS (W)					Used for display purposes. Units and number of decimal points can be changed in Lovelace.
	consumed	, ,	Power Consumption	all	w	time stame	Reports current consumption data, updated every 30 seconds
	generated	sa_consumption_power sa_generation_power	Power Generation	all	W	time_stamp time_stamp	Reports current consumption data, updated every 30 seconds Reports current power generated, updated every 30 seconds
	import_export	sa_import_export_power	Power Import Export	all	w	time_stamp	Calculates the current consumption minus the power generated to give you a positive or negative p
							usage, updates every 30 seconds. (positive means you have surplus solar, negative means you are importing from grid)
W]	battery	sa_battery_power	Power Battery	battery only	W	time_stamp	mporting nom grey
		ENERGY SENSORS (Wh)					Used for display purposes. Units and number of decimal points can be changed in Lovelace.
	consumed	sa_todays_energy_consumed_total	Total Energy Consumed	all	Wh	time_stamp,	Reports accumulated daily total of Todays Consumed Energy (Total house usage grid and solar). Incl
						last_5min	battery storage in/out where applicable.
W]	consumed, battery	sa_todays_energy_consumed_home_total	Total Energy Consumed Home	battery only	Wh	time_stamp,	Reports accumulated daily total of Todays Consumed Energy (Total house usage grid and solar) min
w]	consumed, battery,	sa_todays_energy_consumed_home_imported_total	Total Energy Consumed Home Imported	battery only	Wh	last_5min time_stamp	battery storage in/out energy. Reports accumulated imported daily total of Todays Consumed Energy minus battery storage in/out
	import_export						energy.
	generated	sa_todays_energy_generated_total	Total Energy Generated	all	Wh	time_stamp,	Reports accumulated daily total of Todays Generated Energy (Solar Production)
		and Andrew Control of the Control of	Total Farance Community Color	all	Wh	last_5min	Describe and self-band deliterated of account of four Color Described
w]	generated generated, import_export	sa_todays_energy_consumed_solar sa_todays_energy_exported_generated	Total Energy Consumed Solar Total Energy Exported Generated	battery only	Wh	time_stamp time_stamp	Reports accumulated daily total of energy consumed from Solar Production
,							
	generated	sa_todays_energy_generated_expected_total	Total Energy Generated Expected	all	Wh	time_stamp	Repots accumulated total of expected solar generation, updated hourly.
	import_export	sa_todays_energy_imported	Total Energy Imported	all	Wh	time_stamp, last_5min	Reports accumulated daily total of energy imported from the grid (Import)
	import_export	sa_todays_energy_exported	Total Energy Exported	all	Wh	time_stamp,	Reports accumulated daily total of energy exported to the grid (Export or Feed in)
						last_5min	
W]	battery	sa_todays_battery_storage_in_total	Total Battery Storage Energy Input	battery only	Wh	time_stamp,	Reports accumulated daily total of energy added into the battery storage.
wı	battery, import_export	sa_todays_battery_storage_in_imported	Battery Storage Energy In Imported	battery only	Wh	last_5min time_stamp,	Reports accumulated daily total of imported energy added into the battery storage.
vvj	battery, import_export	sa_todays_battery_storage_in_iniported	battery storage chergy in imported	battery only	VVII	percentage_of_total	reports accumulated daily total of imported energy added into the battery storage.
w]	battery, generated	sa_todays_battery_storage_in_generated	Battery Storage Energy In Generated	battery only	Wh	time_stamp,	Reports accumulated daily total of generated energy added into the battery storage.
						percentage_of_total	
W] W]	battery, generated battery	sa_todays_battery_storage_in_generated_percentage sa_todays_battery_storage_out_total	Battery Storage Energy In Generated Percentage Total Battery Storage Energy Output	battery only battery only	% Wh	time_stamp time_stamp,	Reports accumulated % daily total of generated energy added into the battery storage. Reports accumulated daily total of energy output from the battery storage.
	battery	sa_todays_battery_storage_out_total	Total Battery Storage Energy Output	battery only	****	last_5min	reports accumulated daily total or energy output from the battery storage.
w]	battery, import_export	sa_todays_battery_storage_out_exported	Battery Storage Energy Out Exported	battery only	Wh	time_stamp,	Reports accumulated daily total of consumed energy output from the battery storage.
wı	L-11	ca todays battony storage out consumed	Battery Storage Energy Out Consumed	battery only	Wh	percentage_of_total	
vvj	battery, consumed	sa_todays_battery_storage_out_consumed	Battery Storage Energy Out Consumed	battery only	VVII	time_stamp, percentage_of_total	Reports accumulated daily total of exported energy output from the battery storage.
W]	battery, consumed	sa_todays_battery_storage_out_consumed_percentage	Battery Storage Energy Out Consumed Percentage	battery only	%	time_stamp	Reports accumulated % of daily total of consumed energy output from the battery storage.
	AC	sa_todays_air_conditioner_total	Heating Cooling Energy	not 3phase or battery	Wh	time_stamp, last_5min	SA Channel data as labelled "load_air_conditioner".
	EV	sa_todays_electric_vehicle_total	Electric Vehicle Energy	not 3phase or battery	Wh	time_stamp,	SA Channel data as labelled "load_ev_charger".
	HW	sa_todays_hot_water_total	Hot Water Energy	not 3phase or battery	Wh	last_5min time_stamp,	SA Channel data as labelled "load_hot_water".
						last_5min	
	ST	sa_todays_stove_oven_total	Stove Oven Energy	not 3phase or battery	Wh	time_stamp, last_5min	SA Channel data as labelled "load_stove".
	Consumed	sa_todays_energy_other_total	Todays Energy Other Total	not 3phase or battery	Wh	time_stamp, last_5min	Balance of total consumed energy that's not heating-cooling, EV charging, hot water or stove-oven.
	AC	sa_todays_heating_cooling_generated	Heating Cooling Energy Generated	not 3phase or battery	Wh	time_stamp ac_energy_last5min percentage_of_total	Heating-cooling energy from generated sources.
	AC	sa_todays_heating_cooling_imported	Heating Cooling Energy Imported	not 3phase or battery	Wh	time_stamp ac_energy_last5min percentage_of_total	Heating-cooling energy imported from the grid.

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TYPE	SENSOR UNIQUE_ID	FRIENDLY NAME / ALIAS	YAML	STATE	Attributes	DESCRIPTION
			SOURCE	UNITS		
EV	sa_todays_electric_vehicle_generated	Electric Vehicle Energy Generated	not 3phase or battery	Wh	time_stamp	EV charging energy from generated sources.
					ev_energy_last5min	
					percentage_of_total	
EV	sa_todays_electric_vehicle_imported	Electric Vehicle Energy Imported	not 3phase or battery	Wh	time_stamp	EV charging energy imported from the grid.
					ev_energy_last5min	
					percentage_of_total	
EV HW	sa_todays_electric_vehicle_generated_percentage	Electric Vehicle Energy Generated Percentage	not 3phase or battery	% Wh	time_stamp	Same as Electric Vehicle Energy Generate percentage_of_total attribute.
HVV	sa_todays_hot_water_generated	Hot Water Energy Generated	not 3phase or battery	WII	time_stamp hw_energy_last5min	Hot water energy from generated sources.
					percentage of total	
HW	sa_todays_hot_water_imported	Hot Water Energy Imported	not 3phase or battery	Wh	time_stamp	Hot water energy imported from the grid.
	sa_todays_not_water_imported	not vister energy imported	not sphase of battery	••••	hw_energy_last5min	not water energy imported from the grid.
					percentage_of_total	
HW	sa_todays_hot_water_generated_percentage	Hot Water Energy Generated Percentage	not 3phase or battery	%	time_stamp	Same as Hot Water Energy Generate percentage_of_total attribute.
ST	sa_todays_stove_oven_generated	Stove Oven Energy Generated	not 3phase or battery	Wh	time_stamp	Stove-oven energy from generated sources.
					st_energy_last5min	
					percentage_of_total	
ST	sa_todays_stove_oven_imported	Stove Oven Energy Imported	not 3phase or battery	Wh	time_stamp	Stove-oven energy imported from the grid.
					st_energy_last5min	
					percentage_of_total	
ST	sa_todays_stove_oven_generated_percentage	Stove Oven Energy Generated Percentage	not 3phase or battery	%	time_stamp	Same as Stove Oven Energy Generate percentage_of_total attribute.
	GENERATED SOLAR % SENSORS					
generated, consumed	sa_todays_generated_consumed_percentage	Percentage Generated Energy Consumed	all	%	time_stamp	Reports the accumulated daily percentage of generated energy vs consumed, higher the value the
						solar energy you have used, lower means more exported.
consumed, generated	sa_todays_consumed_generated_percentage	Percentage Consumed Energy Generated	all	%	time_stamp	Reports the accumulated daily percentage of energy consumed from Solar vs total consumption
						percentage of solar use vs grid use, higher the value the more you used of your solar.
	ENERGY COST RELATED SENSORS (\$)					
import export	sa_todays_energy_imported_cost	Todays Energy Imported Cost	all	s	last reset	As defined by HA energy dashboard - not in solar analytics.yaml
import_export	sa_todays_energy_exported_compensation	Todays Energy Exported Compensation	all	\$	last_reset	As defined by HA energy dashboard - not in solar_analytics.yaml.
import_export	sa_todays_energy_total_net_cost	Todays Energy Total Net Cost	all	Ś	time_stamp	Reports the net cost (imported cost minus exported revenue)
import_export	30_1000/3_11016/3_1010/_1101	roddys Energy rodd Net cost		· ·	tine_stamp	reports the net cost (imported cost minus exported retende)
import_export	sa_todays_energy_import_rate	Todays Energy Import Rate	all	\$/kWh	time stamp	Import rate in cost / kWh
import_export	sa_todays_energy_export_rate	Todays Energy Export Rate	all	\$/kWh	time_stamp	Export rate in cost / kWh
	HISTORY SENSOR					Used for plotting a graph - e.g. using Apex Charts
time,	sa_todays_energy_history	Total Energy History	all	date-time	times	
consumed, generated,	sa_todays_energy_instory	Total Ellergy History	all	date-time	times simple	
AC, EV, HW, ST,					energy_consumed	
import_export,					energy_generated	
battery			not_3phase or battery		energy_load_air_conditioner	
					energy_load_ev_charger	
					energy_load_hot_water	
					energy_load_stove	
					energy_imported_exported	
			battery_only		energy_battery_storage	
					energy_consumed_home	

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TYPE	SENSOR UNIQUE_ID	FRIENDLY NAME / ALIAS	YAML SOURCE	STATE UNITS	Attributes	DESCRIPTION
			SOURCE	UNITS		
	REST (HTTP) SENSORS					
арі	sa_auth_token	sa_auth_token	all	seconds	token expires	Get an refreshed authenticion token every 2 hours (typically won't have changed) or whenever trigg by the sa_token_expiry_timer automation. State value is the duration until token expires in seconds Attributes include the token itself, and the date-time of next expiry.
api	sa_site_list	sa_site_list	all	date-time	***	Actibutes include the token itself, and the date-time of next expiry. Get the site details and status, updated every 24 hours. State is date-time of last update. Various attributes as provided by Solar Analytics.
api	sa_status	sa_status	all	text	***	Shows the status of site updated every hour. State is text label - e.g. "good". Various attributes as provided by Solar Analytics.
api	sa_status_log_entry	sa_status_log_entry	all	text	***	Get the site fault status log entry for the specified site_id updated every 5 minutes. State is short te description of any fault, normally "Good". Various attributes as provided by Solar Analytics.
api	sa_data_by_5min					Get used to retrieve energy related sensor data every 5 mins. The retrieved sensor data is considered "row", where it's typically not used display or historic data purposes.
time	sa data by 5min time stamp	sa data by 5min time stamp	all	date-time	none	Solar Analytics timestamp of the provided data.
time	sa_data_by_5min_meter_reset	sa_data_by_5min_meter_reset	all	true/false		Derived true/false sensor indicating true for 5 minutes at the start of the day (post midnight). Usefu triggering reseting cost related sensors.
consumed	sa data by 5min energy consumed	sa data by 5min energy consumed	all	Wh	none	Last 5 minutes energy consumed. Includes battery storage in/out where applicable.
consumed, battery	sa_data_by_5min_energy_consumed_home	sa_data_by_5min_energy_consumed_home	battery only	Wh	none	Last 5 minutes energy consumed minus battery storage in/out.
generated	sa_data_by_5min_energy_generated	sa_data_by_5min_energy_generated		Wh	none	Last 5 minutes energy generated.
battery	sa_data_by_5min_battery_storage	sa_data_by_5min_battery_storage	battery only	Wh	none	Last 5 minutes battery storage in (-ve) and out (+ve).
import_export	sa_data_by_5min_imported	sa_data_by_5min_imported	battery only	Wh	none	Last 5 minutes imported energy.
import_export	sa_data_by_5min_exported	sa_data_by_5min_exported	battery only	Wh	none	Last 5 minutes exported energy.
AC	sa_data_by_5min_load_air_conditioner	sa_data_by_5min_load_air_conditioner	not 3phase or battery	Wh	none	Last 5 minutes energy for an "load_air_conditioner" (channel as labeled by Solar Analytics).
EV	sa_data_by_5min_load_ev_charger	sa_data_by_5min_load_ev_charger	not 3phase or battery	Wh	none	Last 5 minutes energy for an "load_ev_charger" load (channel as labeled by Solar Analytics).
HW ST	sa_data_by_5min_load_hot_water sa_data_by_5min_load_stove	sa_data_by_5min_load_hat_water sa_data_by_5min_load_stove	not 3phase or battery not 3phase or battery	Wh Wh	none none	Last 5 minutes energy for a "load_hot_water" (channel as labeled by Solar Analytics). Last 5 minutes energy for a "load_stove" (channel as labeled by Solar Analytics).
consumed	sa_data_by_5min_energy_consumed_total	sa_data_by_5min_energy_consumed_total	all	Wh	none	Daily total of 5 minute energy consumed. Includes battery storage in/out where applicable.
consumed	sa_data_by_5min_energy_consumed_home_total	sa_data_by_5min_energy_consumed_home_total	battery only	Wh	none	Daily total of 5 minute energy consumed minus battery storage in/out.
consumed, import_exp	port lata_by_5min_energy_consumed_home_imported_total	lata_by_5min_energy_consumed_home_imported_total	battery only	Wh	none	Daily total of 5 minute energy consumed from the grid (imported).
generated	sa_data_by_5min_energy_generated_total	sa_data_by_5min_energy_generated_total		Wh	none	Daily total of 5 minute energy generated.
generated, consumed		sa_data_by_5min_consumed_solar_total		Wh	none	Daily total of 5 minute energy generated solar consumed (calculated).
generated, import_exp	port sa_data_by_5min_exported_generated_total	sa_data_by_5min_exported_generated_total	battery only	Wh	none	Daily total of 5 minute generated solar energy exported (calculated).
battery	sa_data_by_5min_battery_storage_in_total	sa_data_by_5min_battery_storage_in_total	battery only	Wh	none	Daily total of 5 minute energy stored into the battery.
battery, generated	sa_data_by_5min_battery_storage_in_generated_total	sa_data_by_5min_battery_storage_in_generated_total	battery only	Wh	none	Daily total of 5 minute generated energy stored into the battery.
battery, import_export battery	t sa_data_by_5min_battery_storage_in_imported_total sa_data_by_5min_battery_storage_out_total	sa_data_by_5min_battery_storage_in_imported_total sa_data_by_5min_battery_storage_out_total	battery only battery only	Wh Wh	none none	Daily total of 5 minute imported energy stored into the battery. Daily total of 5 minute energy output from the battery.
battery, consumed	sa_data_by_5min_battery_storage_out_consumed_total	sa_data_by_5min_battery_storage_out_consumed_total	battery only	Wh	none	Daily total of 5 minute energy output from the battery.
battery, import_export		sa_data_by_5min_battery_storage_out_exported_total	battery only	Wh	none	Daily total of 5 minute exported energy output from the battery.
AC	sa_data_by_5min_load_air_conditioner_total	sa_data_by_5min_load_air_conditioner_total	not 3phase or battery	Wh	none	Daily total of 5 minute energy air conditioner load.
EV	sa_data_by_5min_load_ev_charger_total	sa_data_by_5min_load_ev_charger_total	not 3phase or battery	Wh	none	Daily total of 5 minute energy EV charger load.
HW ST	sa_data_by_5min_load_hot_water_total sa_data_by_5min_load_stove_total	sa_data_by_5min_load_hot_water_total sa_data_by_5min_load_stove_total	not 3phase or battery not 3phase or battery	Wh Wh	none none	Daily total of 5 minute energy hot water load. Daily total of 5 minute energy stove-oven load.
import_export import_export	sa_data_by_5min_imported_total sa_data_by_5min_exported_total	sa_data_by_5min_imported_total sa_data_by_5min_exported_total	all all	Wh Wh	none none	Daily total of 5 minute energy imported (calculated). Daily total of 5 minute energy solar exported (calculated).
AC	sa_data_by_5min_load_air_conditioner_generated	sa_data_by_5min_load_air_conditioner_generated	not 3phase or battery	Wh	none	Daily total of 5 minute energy air conditioner load that was generated.
AC	sa_data_by_5min_load_air_conditioner_imported	sa_data_by_5min_load_air_conditioner_imported	not 3phase or battery	Wh	none	Daily total of 5 minute energy air conditioner load that was imported.
EV	sa_data_by_5min_load_ev_charger_generated	sa_data_by_5min_load_ev_charger_generated	not 3phase or battery	Wh	none	Daily total of 5 minute energy EV charger load that was generated.
EV HW	sa_data_by_5min_load_ev_charger_imported	sa_data_by_5min_load_ev_charger_imported	not 3phase or battery	Wh Wh	none none	Daily total of 5 minute energy EV charger load that was imported. Daily total of 5 minute energy hot water load that was generated.
HW HW	sa_data_by_5min_load_hot_water_generated sa_data_by_5min_load_hot_water_imported	sa_data_by_5min_load_hot_water_generated sa_data_by_5min_load_hot_water_imported	not 3phase or battery not 3phase or battery	wn Wh	none none	Daily total of 5 minute energy not water load that was generated. Daily total of 5 minute energy hot water load that was imported.
ST	sa_data_by_5min_load_stove_generated	sa_data_by_5min_load_stove_generated	not 3phase or battery	Wh	none	Daily total of 5 minute energy stove-oven load that was imported.
ST	sa_data_by_5min_load_stove_imported	sa_data_by_5min_load_stove_imported	not 3phase or battery	Wh	none	Daily total of 5 minute energy stove-oven load that was imported.

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time time consumed consumed, bottery	SENSOR UNIQUE_ID sa data by 5min history time stamp	FRIENDLY NAME / ALIAS	YAML	STATE	Attributes	Lovelace and modifying the state units will cause calculation errors. DESCRIPTION
time consumed consumed, battery	ca data by Smin history time stamp					
time consumed consumed, battery	sa data hu Smin history time stamp		SOURCE	UNITS		
time consumed consumed, battery						
consumed consumed, battery		sa_data_by_5min_history_time_stamp	all	array	none	Array of 5 minute timestamps for the recent history.
consumed, battery	sa_data_by_5min_history_time_stamp_count	sa_data_by_5min_history_time_stamp_count	all	number	none	Count of entries in the history array.
	sa_data_by_5min_history_energy_consumed	sa_data_by_5min_history_energy_consumed	all	array	none	Array of 5 minute consumed energy. Includes battery storage in/out where applicable.
	sa_data_by_5min_history_energy_consumed_home	sa_data_by_5min_history_energy_consumed_home	battery only	array	none	Array of 5 minute consumed minus battery storage energy.
generated	sa_data_by_5min_history_energy_generated	sa_data_by_5min_history_energy_generated		array	none	Array of 5 minute generated energy.
battery	sa_data_by_5min_history_battery_storage	sa_data_by_5min_history_battery_storage	battery only	array	none	Array of 5 minute battery storage in (-ve) and out (+ve) energy.
AC	sa_data_by_5min_history_load_air_conditioner	sa_data_by_5min_history_load_air_conditioner	not 3phase or battery	array	none	Array of 5 minute air conditioner load energy.
EV	sa_data_by_5min_history_load_ev_charger	sa_data_by_5min_history_load_ev_charger	not 3phase or battery	array	none	Array of 5 minute EV charger load energy.
HW	sa_data_by_5min_history_load_hot_water	sa_data_by_5min_history_load_hot_water	not 3phase or battery	array	none	Array of 5 minute hot water load energy.
ST	sa_data_by_5min_history_load_stove	sa_data_by_5min_history_load_stove	not 3phase or battery	array	none	Array of 5 minute stove-oven load energy.
import_export	sa_data_by_5min_history_imported_exported	sa_data_by_5min_history_imported_exported	all	array	none	Array of 5 minute imported (-ve) and exported (+ve) energy
api	sa_live_site_data		all			Get used to retrieve power related sensor data every minute. The retrieved sensor data is considere "raw", where it's typically not used display or historic data purposes.
time	sa live site data time stamp	sa live site data time stamp	all	date-time	none	Solar Analytics timestamp of the provided data.
consumed	sa_live_site_data_consumed	sa_live_site_data_consumed	all	W	none	Average consumption power (previous minute). Includes battery storage in/out where applicable.
consumed, battery	sa_live_site_data_consumed_home	sa_live_site_data_consumed_home	battery only	W	none	Average consumption power (previous minute) minus battery storage energy.
	sa_live_site_data_generated	sa_live_site_data_generated	all	W	none	
generated				W	none none	Average generation power (previous minute)
battery import_export	sa_live_site_data_battery sa_live_site_data_imported_exported	sa_live_site_data_battery sa_live_site_data_imported_exported	battery only all	W	none	Average net imported (+ve) or exported (-ve) power (previous minute).
api	sa_data_by_hour		all			Get used to retrieve energy related sensor data every hour. The retrieved sensor data is considered
						"raw", where it's typically not used display or historic data purposes.
time	sa_data_by_hour_time_stamp	sa_data_by_hour_time_stamp	all	date-time	none	Solar Analytics timestamp of the provided data.
generated	sa_data_by_hour_generated_expected	sa_data_by_hour_generated_expected		Wh	none	Expected generated energy to the current hour for the day.
	AUTOMATIONS					
auth	sa_token_expiry_update	SA Token Expiry update	all	on/off	last_triggered	Automation to restart timer when the authentication token is refreshed.
auth	sa_token_refresh_on_timer_expiry	SA Token refresh on Timer expiry	all	on/off	last_triggered	Automation to refresh the token when the timer expires.
auth	sa_refresh_all_rest_gets	SA Refresh all REST data gets	all	on/off	last_triggered	Manually initiated automation for force refresh of all rest gets.
api	sa_data_by_5min_trigger	SA Data by 5min Trigger	all	on/off	last_triggered	Automated trigger for sa_data_by_5min sensors - fires every 5 minutes.
api	sa live site data trigger	SA Live Site Data Trigger	all	on/off	last triggered	Automated trigger for sa live site data sensors - fires every minute.
api	sa_data_by_hour_trigger	SA Data By Hour Trigger	all	on/off	last_triggered	Automated trigger for sa_data_by_hour sensors - fires every hour.
	TIMERS					
auth	sa_token_expiry_timer	sa_token_expiry_timer	all	seconds	none	Timer for triggering refresh before token expiry.
	TEXT SENSORS					
site	sa_site_id	sa_site_id	all	text	none	Site identifier as defined from the secrets.yaml file.
	SECRETS (defined in secrets years)					
cito	SECRETS (defined in secrets.yaml) !secret sa_site_id	na	all	text	2000	User site identifier defined in secrets.yaml file.
site site	!secret sa_site_ia !secret sa_username	na na	all	text	none none	User site identifier defined in secrets.yaml file. User username defined in secrets.yaml file
site	!secret sa_username !secret sa_password	na na	all	text	none	User asername defined in secrets.yami file User password defined in secrets.yami file.