Alerter_Tasks_v1

GENERAL TASKS:
CONFIGURATION:

CONFIG STRING with two chars.
First part: PRIORITY number: 0=disable Task, 1-3= priority etc.etc.
Second part: TRACKING option: Y or N

So a valid configuration may look like:without the “
S1_STO_Direction = "1Y"; (enabled Priority 1, Tracking on)
S1_STO_InMinMaxLevels = "1N"; (enabled Priority1, Tracking off)
S1_STO_OutMinMaxLevels = "0N"; (deactivated Task)
S1_STO_OutLongMaxShortMinLevels = "0N";
extern string S1_STO_OutLongMinShortMaxLevels = "2N"; (enabled Priority2, Tracking off)
extern string S1_STO_AllInOrder = "2N"; (enabled Priority2, Tracking off)

PRIORITY means: kind of 'soft' dependency. (group)

First **all enabled Tasks** with **Priority1** have to agree on a Direction (in some cases if you do not watch even on both directions e.g. you enable only this Task: S1_STO_InMinMaxLevels = "1N")
ONLY after that is OK we start Checking the next Priority Level.

And so on: Now **all enabled Tasks** from **Priority1 AND all enabled Tasks from** Priority2 have to agree on a Direction (in some cases if you do not watch even on both directions)
ONLY after that is OK we start Checking the next Priority3 Level.

In case one wants that all Tasks have to agree without any particular priority (probably most of the time) it is wise to put some (if you use more) in Priority2 and maybe Priority3: why: because of less calculation power.

e.g. 5 Tasks use.
If you put all 5Taks in Priority1 (perfectly ok); we check every time all 5 tasks.

If you put 2 Taks in Priority1 and 3 in Priority2: we check only 2 until they agree on one/or both directions: and skip in the meantime completely checking the other 3 Tasks.

NOTE: At a new alert: we cancel reset all Tasks results to NONE direction and start afresh.
(This means you can loose some possible Alerts if they depend on Tracking.)

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NOTE:
some Tasks are LONG/SHORT exclusive: e.g. S1_STO_Direction (can not be both at the same time)
others are LONG/SHORT inclusive:e.g. S1_STO_InMinMaxLevels (Depending on the setting often this will be true at the same time for LONG/SHORT)

I let you to thing through this yourself as there are so many scenarios of settings ;)
but one e.g.
Extra_Stoch1_Long_Minimum =0;
Extra_Stoch1_Long_Maximum =100;
Extra_Stoch1_Short_Minimum =0;
Extra_Stoch1_Short_Maximum =100;

STO1_InMinMaxLevels will be always true and always true for LON and SHORT. Just a silly example: in praxis such Task should be never included in the first place as it it unnecessary and just uses extra resource.

Priority can have two usage:

1.
REDUCE CALCULATION POWER
if we need simple all tasks to agree: it is wise to use it can reduce calculation power.

2.
ALLOW SOFT DEPENDENCY (group dependency - more of a rare case):
e.g. sometimes on might want Stoch1 to peak first, and only after that we want Stoch2 to peak for an valid alert.
For such rare cases we need to:
Add **STO1**_InMinMaxLevels Priority1 and **STO2**_InMinMaxLevels Priority2

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TRACKING means: (USE IT ONLY if you really need it: more calculation and MOST of the time we do not really need it and you might not get all possible alerts because we reset the result table.)

TRACKING means if a direction is found we keep it until the opposite direction happens.
e.g. STOCH 1 must have been in Overbought/Oversold but at time of entry must be in the between area. We keep it marked as LONG OK till (a valid SHORT below oversold) happens or a final Alert happens where we always rest all tasks to NONE direction.

e.g. For Long: Without tracking we would never know if it was really before above overbought (except at the exact crossing point – but that also might not be available because of other settings) as at the time of checking we require it to be between overbought/sold.

That would mean never an Alert as both TASKS can not be e.g LONG at the same time.
(they are exclusive)
STO1_OutMinMaxLevels (Peak), STO1_InMinMaxLevels
For such rare cases we need to:
1. Enable Tracking.

Remember most of the time tracking is not needed.
e.g. for check if a MA/Stoch points now up or down.

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STOCHASTIC:

MTF_ STOCH SET:

1.
for BOTH STOCH SETS: we do NOT calculated nor consider the Signal line at all

2.
for EACH STOCH SETS: the Stoch MAMethod and Stoch PriceField can be adjusted (per set and not for each individual stochastic)

3.
For each individual Stoch within a Set one can make this inputs:
incl_Set1_Stoch1__**M1** = false;
(note you can not anymore adjust the TimeFrame: it is all fix : also no input mistake.
You can just disable one stoch timeframe or enable it to be considered in the overall Set tasks)
Set1_Stoch1_KPeriod = 14;
Set1_Stoch1_Slowing = 3;
Set1_Stoch1_Long_Minimum =0;
Set1_Stoch1_Long_Maximum =100;
Set1_Stoch1_Short_Minimum =0;
Set1_Stoch1_Short_Maximum =100;

4.
WITHIN a STOCH SET: there are stochastic for each of the **9 possible TF M1-MN1**

5.
Additionally to the two sets there are 5 individual extra Stochastic which can be enabled:

These can have also D% Signal lines which must be extra enabled.

incl_Extra_Stoch1 = false;
Extra_Stoch1_TimeFrame=0;
Extra_Stoch1_KPeriod = 100;
use_Extra_Stoch1_DLine = false;
Extra_Stoch1_DPeriod = 3;
Extra_Stoch1_Slowing = 3;
Extra_Stoch1s_MAMethod = 0;
Extra_Stoch1_PriceField = 0;
Extra_Stoch1_Long_Minimum =0;
Extra_Stoch1_Long_Maximum =100;
Extra_Stoch1_Short_Minimum =0;
Extra_Stoch1_Short_Maximum =100;

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TASKS/CHECKS FOR STOCHASTIC:

FIRST: Important point of understanding:

I do not follow strictly what one would do looking at multiple charts with different Time Periods.

e.g. to explain this:
What does it mean a line (Stoch/MA) points in a direction: e.g. UP:
simple said: if the current stoch is higher than the previous stoch.

The issue I want to point to is: **What do I (we) understand by PREVIOUS in a MTF setup.**

If one trades of the M1 and looks at multiple charts:

On the main M1 Chart: previous would mean 1 minute ago.
Than he looks at the other charts.

On a Daily chart: previous would mean the previous day.
On a M15 chart: previous would mean the bar before: 15 minutes before
On a M5 chart previous would mean 5minutes ago.

I on the other hand follow a different line:
I follow the point that one has applied different MTF indicators to ONE chart.

And now has all the info MTF info on this single chart. A reason why many prefer MTF indies than 5 charts.
A trader looking at that single chart will base his decisions usually a bit differently.

e.g. let's say a MTF indi trader has applied to a M1 chart:

MTF STOCH TF: D1
MTF STOCH TF: M15
MTF STOCH TF: M5

The trader looking at such a chart bases his decision surely not by scrolling backwards a whole day (1440 M1 bars: and than makes his decision on the difference to the current live M1 candle.)
Checking not even counting 15 bars back for M15.

For such a setup: previous would mean for most: 1 Chart bar ago (in this case M1). And that applies to all MTF indies D1 , M15, M5: Previous means on a M1 chart 1 Minute bar ago, no matter what MTF period is applied.
On the other hand if one changes the chart period to M5: previous would mean 1 M5 bar ago. And that applies to all MTF indies D1 , M15, M5

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Mostly a trader looks at the chart with a kind of Vertical Line mind: just go through any forum where they post charts with MTF- indis applied. Mostly there is a Vline and than some explanation why this was all supporting such and such case. It's quite a different approach than a strictly Multiple charts approach.

Also some other issues: like Past data will often be readjusted (which by Multiple charts does never happen for closed candles.) but in MTF indi charts it happens even for the previous Closed chart bar.

But the argument goes: That's why one uses MTF- indicators.
What is right or wrong: None – it is just a bit of a different approach.
Does it ALWAYS produce the same results: I don't know.

NOTE: the given *e.g. usages* are not the only one this are pure examples.

1. MTF-SETS==========
MTF-SETS are always treated as a unity.

One can NOT perform a task on an individual stochastic (of course if you disable all other 8 TF than the SET consist of only 1 stochastic

// SET1 / SET2 MTStochs TASKS
SET 1 and SET2 have the same TASKS available. e.g. SET1

S1_STO_Direction:
(e.g. usage: simple one wants to get all TF to have the same direction not much to say)

TASK is: check that all included TF within Set1 MUST point into the same direction (LONG (UP), SHORT (DOWN)):

S1_STO_InMinMaxLevels:
(e.g. usage: simple one wants to get all TF to have the same direction not much to say)

TASK is: check that all included TF within Set1 MUST point into the same direction (LONG (UP), SHORT (DOWN)):

S1_STO_OutMinMaxLevels:
(e.g.: before one considers a possible setup: one wants to make sure that none of the stoch has move for instance already to the opposite extreme: long overbought are – but there is still enough room to ride the stochs up)

TASK is: check that all included TF within Set1 are within each defined Levels.
For LONG to be true between (values inclusive): Long_Minimum and Long_Maximum
For SHORT to be true between (values inclusive): Short_Minimum and Short_Maximum

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S1_STO_OutLongMaxShortMinLevels:
(e.g.: Spud had requirement that STO 100,3,3 must be in overbought OR oversold : here we follow a similar thought: all included TF must be in one of the extremes)

TASK is: check that all included TF within Set1 are outside/beyond each defined Levels.
For LONG to be true: Stoch below Long_Minimum **OR** Stoch above Long_Maximum
For SHORT to be true: Stoch below Short_Minimum **OR** Stoch above Short_Maximum

S1_STO_OutLongMinShortMaxLevels: (Set1_STO_BeyondLongMaxShortMinLevels)
(e.g.: this difference from the above that we want to make sure for Long to be true it is above the LONG MAX level and not at the opposite side.)

TASK is: check that all included TF within Set1 are beyond each defined Levels.
For LONG to be true: Stoch above Long_Maximum
For SHORT to be true: Stoch below Short_Minimum

S1_STO_AllInOrder: STO_AllInOrder is: Lower TF (leading Higher TF)
(e.g.: Spuds Elastic setup (I don't remember now if he really required it – but there are a couple of usages)

For LONG to be true: Lower TF is higher up than Higher TF: e.g. M5= 83, M15=78, M30=45
For SHORT to be true: Lower TF is lower up than Higher TF: e.g. M5= 13, M15=38, M30=45

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// EXTRA Stochs TASKS Basically all of them have similar options: so I mention just STO1.

STO1_Direction: similar to SET (see above) but applied to a single stoch.

STO1_InMinMaxLevels: similar to SET (see above) but applied to a single stoch.

STO1_OutMinMaxLevels: similar to SET (see above) but applied to a single stoch

STO1_OutLongMaxShortMinLevels: similar to SET (see above) but applied to a single stoch.

STO1_OutLongMinShortMaxLevels: similar to SET (see above) but applied to a single stoch.

STO1_Leads_STO2: STO1 leading STO2
For LONG to be true: STO1 is higher up than STO2: e.g. STO1= 83, STO2=78
For SHORT to be true: STO1 is lower up than STO2: e.g. STO1= 13, STO2=38

STO1_Leads_STO3: similar to above

STO1_Leads_STO4: similar to above

STO1_Leads_STO5: similar to above

STO1_KMainAboveBelowDSignal:
For LONG to be true: KMain Above DSignal
For SHORT to be true: KMain Below DSignal

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1. REAL PRICE==========

// REAL PRICE TASKS

RealPrice_Direction:
(e.g. usage: simple get the direction)
TASK is: check the the Real Price Direction
For LONG to be true: RealPrice points up
For SHORT to be true: RealPrice points down

RealPrice_TwoBarsDirection: similar to above

RealPrice_ThreeBarsDirection: similar to above

RealPrice_BeyondExtra_MA1:
TASK is: check the the Real Price is beyond the EXTRA_MA1
For LONG to be true: RealPrice above EXTRA_MA1
For SHORT to be true: RealPrice below EXTRA_MA1

RealPrice_BeyondExtra_MA2: similar to above

RealPrice_BeyondExtra_MA3: similar to above

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Probably it is best first to decide which scenario one want to be alerted.
(I don't bother how you do it , really I don't - but it might be a good suggestion)

1.
Maybe to deactivate all included SETS (ALL individual TF within all sets)
to start with: (otherwise you might forget some stuff on.)

2.
disable all tasks "0N": O disable, N no tracking

3.
Think about what do I want to achieve.

* DEFINITION OF INDIS included:
  - which indi to I need to enable: SET (individual TF within a SET) single extra indi)
  - which setting does each indi need

* TASK to be needed to achieve that
  - are all indis for all needed TASK included/defined ?
  - do I need tracking (only use it if you really need it)
  - into which Priority Levels should I put the individual Tasks

(Note: if you have at least one Task which defines exclusively LONG or SHORT direction: E.g Direction of Set, individual MA/STO Price – if possible include at least one of them in PRIORITY level 1. of course if you do not use any and only something like: **STO1_InMinMaxLevels** (which is perfectly valid if one needs only a boundary).

* As generalization maybe one could say: it does not make much sens to but only 1 Task in a Priority level.
(two exception: you have only 1 Task ;) or you need really a soft dependency order and a single Task must succeed before e.g. 5 others)

most of the time we do not need orders task execution nor tracking.

e.g.: I have 4 Tasks (no order needed): I would put **two** in Priority1 and **two** inPriority2
e.g.: I have 5 Tasks (no order needed): I would put **three** in Priority1 and **two** in Priority2
e.g.: I have 7 Tasks (no order needed): I would put **three** in Priority1 and **two** in Priority2 and **two** in Priority3

Of course this are just generalizations.

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SOME OTHER NOTES:

I do some simple checks for correct input: but surely not all:

I do not check all potential logicals problems not all other potential problems. Maybe I will add more in the future but it's your task to make sure you define something workable.

e.g. problem (you never get an alert.)
STO1_Leads_STO3=”1N”
and
STO3_Leads_STO1=”1N”

or e.g. general problem
STO1_Leads_STO3=”1N” but you do not include STO3 with incl_Extra_Stoch3

At start of the Alerter indi (e.g adding it to a chart, switching charts periods – there is quite a lot of things and calculation going on – so you may see some delays:
if it's too bad maybe try to reduce the: TOOLS-OBTIONS-CHARTS: Max bars in chart. But of course if you have too less bars and apply a Monthly MTF indi you might get an Error:
“CHECK_FOR_DATA FAILED" in such case you may try to set the Max bars in chart (and higher)