

CrossTalk™ Clear Correlation Plug-in

Generate Integer Based Alarm Correlation Attributes From ASCII Strings

- ◆ Leverages automated Clear Correlation of alarms where this is otherwise unavailable
- ◆ Operates as a plug-in to the Alarm Mediation Services (AMS) and Alarm Application Services (AAS)
- ◆ Allows mapping rules to generate unique integer values from extracted alarm data specifically for the purpose of facilitating Clear Correlation

The plug-in is used in circumstances where alarms need to be differentiated for correlation purposes by additional text based ASCII string values. A typical example of usage would be where IST trap variables in additional text contain say a "service name" that needs to be considered for accurate TeMIP alarm Clear Correlation purposes.

The plug-in is passed an ASCII string value extracted from alarm data by mapping rules. The plug-in calculates an integer value which is returned to the ruleset in order to be used to synthesize/supplement the relevant alarm attribute for correlation purposes.

The following example shows how this operates. Here an alarm has a sub-string (*Input string*) in its Additional Text attribute which needs to be considered in the clear correlation process, being common to both the alarm Raise and the Clear. The value can't be mapped to the Specific Problem or Notification Id. attribute as is, because it is not an integer value.

Input string: "MO:RXETF-001" Returned hash value:262927601

Input string: "MO:RXETF-002" Returned hash value:262927602

Input string: "MO:RXETF-003" Returned hash value: 262927603

Input string: "MO:RXETF-004" Returned hash value: 262927604

Input string: "MO:RXETF-999" Returned hash value: 262929161

Input string: "MO:RXXXX-999" Returned hash value: 150600473

Input string: "MO:Rabcde-999" Returned hash value: 193563417

Input string: "MO:RBF192-xx" Returned hash value: 208585368

Input string: "MO:RBF192-xy" Returned hash value: 208585369

Input string: "MO:RBF192-yy" Returned hash value: 208585577

The numeric hash value determined by the algorithm can be mapped to the Specific Problem or Notification Id/Correlated Notifications attribute of the alarm to ensure uniqueness for both the Raise and the Clear. This ensures the clear correlation will operate correctly.

Ruleset Call Interface

```
tmp_id=gecco:AMAP_GenClearCorrel(  
    tmp_string, tmp_modulus)
```

or,

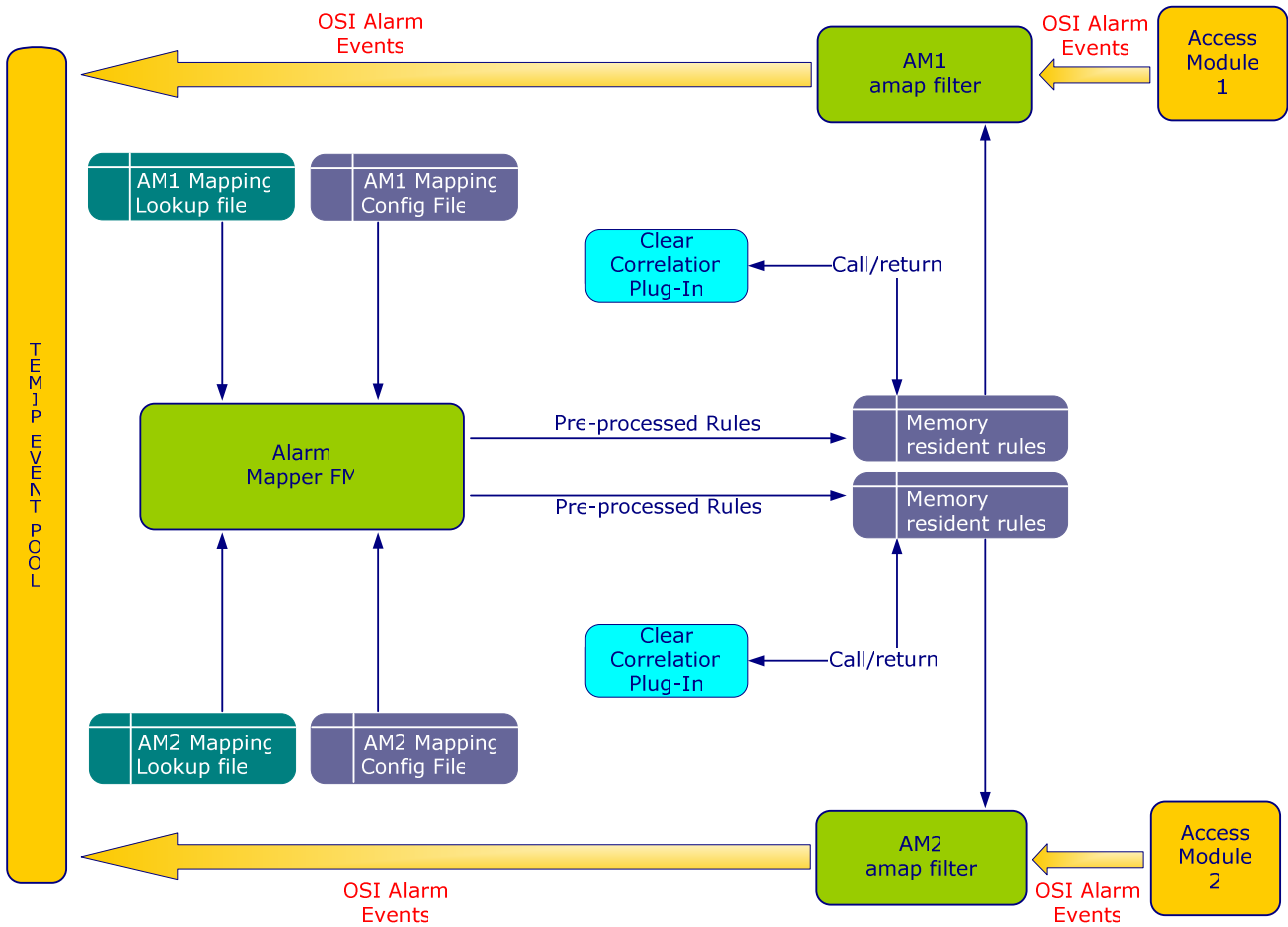
```
tmp_id=gecco:AMAP_GenClearCorrel(  
    "add", tmp_string, tmp_lowerbound
```

tmp_string: is the ruleset variable containing the string to create the unique numerical ID from *tmp_id* contains the returned unique numerical ID.

tmp_modulus: is the maximum unique ID.

tmp_lowerbound: (if "add" is specified) is the minimum unique ID.

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Key Features:

- ◆ Facilitates alarm correlation by transforming alarm string data to an integer
- ◆ Configurable integer ranges

Systems Mechanics Ltd

Ferndale Court, West End Road, Mortimer, Reading, RG7 3SY
 Tel: +44 (0)118 9332220
 Fax: +44 (0)118 9333807
 Email: sales@sysmech.co.uk

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