

LogTrend's Complex Alarms Developer Guide



LogTrend

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by LogTrend

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Chapter 1. Extend complex alarms features

1.1. Develop new detection functions

1.1.1. Internal data representation

Data are stored in hash having variable names as keys and data tabular as data.

Table 1-1. Data internal representation

	var1	var2		var3	
Value	Date	Value	Date	Value	Date
.
.
.

1.1.2. Implementing detection functions

Detection functions are perl packages. Standard detection functions are in the `LogTrend::ComplexAlarm::Function::DetFuncStdlib` package but user defined detection functions must be placed in package named `LogTrend::ComplexAlarm::Function::DetFuncName`.

These packages must implement :

- **Properties**(*det_func_args*);
- **Run**(*init_val_tab_ref*, *var_type_tab_ref*, *current_res_tab_ref*, *det_func_args*);
 - *init_val_tab_ref* : Hash ref of data initial values.
 - *var_type_tab_ref* : Hash ref of data types (*data_name*, *data_type*).
 - *cur_val_tab_ref* : Hash ref of data current values.

1.2. Develop new complex alarms' actions

Actions are just a package named `LogTrend::ComplexAlarm::Action::PckNameAction`. This package must contains a methods called `Run` which is called when the action must be launched and the constructor (`new`).

Prototypes :

- **new**(*alarm_name*, *alarm_level*, *xml_node*);
This method must parse the xml action config node.



- **Run();**

No attributes, must run the action.

This package must be in LogTrend/ComplexAlarm/Action or in a directory present in the environment variable ACTION_PATH.

