

## fhicl-cpp - Feature #12356

### Allow fhicl::Table::print\_allowed\_configuration() to print to message facility streams

04/18/2016 08:30 PM - Gianluca Petrillo

<b>Status:</b>	Closed	<b>Start date:</b>	04/18/2016
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Kyle Knoepfel	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	2.00 hours
<b>Target version:</b>	2.01.00	<b>Spent time:</b>	3.00 hours
<b>Description</b>			
As in subject.			
A possible solution:			
<pre>template &lt;typename Stream&gt; void print_allowed_configuration(Stream&amp;&amp; os, std::string const&amp; tab = std::string(3, ' ')) const;</pre>			
that is <i>probably</i> going to avoid a circular dependency (message facility depends on FHiCL). It can also use temporary objects (like a mf::LogInfo("blah")) because of the "universal" reference.			

#### History

##### #1 - 04/25/2016 11:27 AM - Kyle Knoepfel

- Status changed from New to Assigned
- Assignee set to Kyle Knoepfel
- Estimated time set to 2.00 h

We will provide an implementation that allows you to write a fhicl::Table to a message-facility destination.

##### #2 - 05/24/2016 11:15 AM - Kyle Knoepfel

- Description updated

##### #3 - 05/24/2016 01:07 PM - Kyle Knoepfel

- Status changed from Assigned to Resolved
- % Done changed from 0 to 100

Implemented with commits [fhicl-cpp:c953fb05](#) and [art:2d28bff6](#). The allowed interface is through the insertion operator (operator<<):

```
fhicl::Table<Config> c { fhicl::Name("myConfig") };
mf::LogWarning("Test") << c;
```

Note that there is an infelicity with print\_allowed\_configuration: the system is currently implemented so that there is no separation between the allowed configuration and the user configuration after the user's configuration has been validated. This means that calling print\_allowed\_configuration after validation will print the user configuration.

Ideally, we should probably have two separate functions:

- fhicl::Table::print\_allowed\_configuration
- fhicl::Table::print\_validated\_configuration

or something similar. If you would like this separation, please log a separate issue.

##### #4 - 05/24/2016 01:12 PM - Kyle Knoepfel

- Target version set to 2.01.00

##### #5 - 05/25/2016 10:49 AM - Gianluca Petrillo

Thank you, Kyle.

So far, I don't have specific needs that make me ask for one way or the other.  
Should that change, I'll open another request as directed.

**#6 - 06/07/2016 08:18 AM - Kyle Knoepfel**

- *Status changed from Resolved to Closed*