

## Staribus XML File Preparation

In order to prepare the XML files for a Controller and a Primary Plugin, given an existing composite XML file, proceed as follows *using the 4 channel logger as an example*:

Create file `staribus-controller.xml`

Create file `primary-staribus-4channel-logger.xml`

### Controller

From the original XML file, copy from (and including) the `<Controller>` tag up to and including the **last** `</Command>` tag immediately **before** the `<PluginManifest>` tag. The last Command is usually `setStaribusAddress`. Change the `<StaribusAddress>` field if necessary for your intended configuration. Put this text at the beginning of the `staribus-controller.xml` file.

Copy from (and including) the `<Plugin>` tag at the **start** of the Analogue Plugin, up to and including the **last** `</Command>` tag of the Utilities Plugin. The last Command is usually `enableBacklight`. Append this text to the end of the `staribus-controller.xml` file. If other Controller-specific plugins exist, then these should also be included, but at the time of writing only the Analogue and Utilities plugins are relevant here.

Remove any unnecessary whitespace or comments as you wish, to speed up the file transfer upload.

Terminate the contents of the `staribus-controller.xml` file with an `ETX` character (code 03).

Save the `staribus-controller.xml` file. Upload to the controller memory with the command:

```
setModuleConfiguration(moduleID, filename, compressed)
```

For the Controller the *moduleID* is always zero. Using the *compressed* option removes all unnecessary formatting from the XML. This will speed up the upload, and in some cases may be necessary in order to ensure that the file can fit inside the limited memory.

## Primary Plugin

From the original XML file, copy from (and including) the `<?xml` tag at the beginning of the file up to and including the `</DAO>` tag. Put this text at the beginning of the `primary-staribus-4channel-logger.xml` file.

Copy from (and including) the `<PluginManifest>` tag up to and including the **last** `</Command>` tag of the Exporter Plugin. The last Command is usually `exportInstrumentXML`. Append this text to the end of the `primary-staribus-4channel-logger.xml` file.

Remove any unnecessary whitespace or comments as you wish, to speed up the file transfer upload.

Terminate the contents of the `primary-staribus-4channel-logger.xml` file with an ETX character (code 03).

Save the `primary-staribus-4channel-logger.xml` file. Upload to the controller memory with the command:

```
setModuleConfiguration(moduleID, filename, compressed)
```

For a Primary Plugin the *moduleID* is always 1. Using the *compressed* option removes all unnecessary formatting from the XML. This will speed up the upload, and in some cases may be necessary in order to ensure that the file can fit inside the limited memory. So the Command is:

```
setModuleConfiguration(1,  
                        primary-staribus-4channel-logger.xml,  
                        true)
```



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