

z/TPF Event Message Generator User's Guide

Updated February 21, 2015

Overview

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```
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```

tpfevtmsggen – The z/TPF Event Message Generator is a script used to generate a DFDL schema that describes an event message for event message business events.

Syntax

```
tpfevtmsggen  -signal|-data
               -e eventName  -t templateDirectory
               [-uf userContextFilename  -ut userContextType]
               -df eventDataFilename    [-dt eventDataType]
```

Description

tpfevtmsggen is a script used to generate the DFDL schema file that defines the format of an event message for a given event message business event.

The DFDL schema file that is created by the script is based on the event message templates that are provided with the z/TPF system (*ibev_evtmsg_template.se.dfdl.xsd* and *idev_evtmsg_template.de.dfdl.xsd*). The tpfevtmsggen script replaces the placeholders that are in the templates with the input parameters specified with this script.

The tpfevtmsggen script creates a DFDL schema file that references other DFDL schema files, including *userContextFilename*, *eventDataFilename*, and DFDL schemas provided with the z/TPF system. The combination of the created DFDL schema file and the referenced DFDL schema files define the format of an event message, which includes the event header, optional event ECB context, optional event user context, and event data. The DFDL schema file that is created by this script is then referenced by the `<esEventMessageFormat>` element in a business event specification.

Parameters

-signal

Indicates the event message is for an event message signal event. Either -signal or -data must be specified.

-data

Indicates the event message is for an event message data event. Either -signal or -data must be specified.

-e *eventName*

The name of the event message business event.

If -signal was specified, the name of the DFDL schema file created by this script is *eventName.se.dfdl.xsd*.

If -data was specified, the name of the DFDL schema file created by this script is *eventName.de.dfdl.xsd*.

-t *templateDirectory*

The fully qualified name of the directory that contains the DFDL schema templates provided with the z/TPF product. For example, the fully qualified directory name might be */ztpf/current/base/tpf-fdes/templates*.

-uf *userContextFilename*

Optional name of the DFDL schema file that is used to define the event user context. If this option is specified, the *userContextType* parameter must be defined as well.

-ut *userContextType*

Optional name of the complex type that defines the event user context. The complex type must be defined in the DFDL schema file specified by *userContextFilename*. If this option is specified, the *userContextFilename* parameter must be defined as well.

-df *eventDataFilename*

Name of the DFDL schema file that is used to define the event data.

-dt *eventDataType*

Name of the complex type that defines the event data. The complex type must be defined in the DFDL schema file specified by *eventDataFilename*.

If *-signal* was specified, this parameter is required.

If *-data* was specified, this parameter is ignored.

Additional Information

- The script does not verify the existence of the files referenced by the *-df* and *-uf* parameters. The script only puts references to these files in the generated DFDL schema file.
- The script does not validate that the complex type names specified by the *-dt* and *-ut* parameters exist in the corresponding DFDL schema files. The script only puts references to the complex types in the generated DFDL schema file.

Examples:

Example 1:

Use the script to create an event message DFDL schema for the Credit_Trxns data event. The event message includes event message user context.

Input:

```
tpfevtmsggen -data -e Credit_Trxns -t /ztpf/current/base/tpf-  
fdes/templates -uf Credit_Trxns_Usrctx.user.dfdl.xsd -ut  
Credit_Trxns_Usrctx -df DR12ED.tpfdl.dfdl.xsd
```

Output:

Event message DFDL schema file Credit_Trxns.de.dfdl.xsd created successfully.

Example 2:

Use the script to create an event message DFDL schema for the LowBalance signal event. The event message does not include event message user context.

Input:

```
tpfevtmsggen -signal -e LowBalance -t /ztpf/current/base/tpf-  
fdes/templates -df LowBalance_EvtData.se.dfdl.xsd -dt  
LowBalance_EvtData
```

Output:

Event message DFDL schema file LowBalance.se.dfdl.xsd created successfully.