

**CEM User
Release Notes
Release 20020701
Version 3.9.25**

Purpose

The purpose of this document is to provide information pertaining to the release of the CEM Kernel and user interface. This document is divided into three sections:

<u>Enhancements</u>	Describes changes that enhance the capability of the CEM Kernel.
<u>Problem Reports</u>	Describes changes that correct errors reported in problem reports.
<u>CEM Help</u>	Describes changes made to the user interface that will eventually be added to the CEM On-Line Help.

Enhancements

CEM Kernel - New Current State Macro *IsOkCurDevAddr()*

Prior to this release, CEM Users were unable to determine if the CEM Kernel had received Address Information from the RTS for the Current Device.

With this release, CEM Users can determine if the CEM Kernel has received Address Information from the RTS for the Current Device. See the CEM Help Section below for a full description of this Macro.

CEM Kernel - New Current State Macro *SetCurDev()*

Prior to this release, CEM Users were restricted to accessing only the Current Device/Channel set by the CEM Kernel. This restriction made it impossible for CEM Modules to perform specialized device-dependent processing using only those interfaces provided within the TYX-supplied CEM Library and Header Files.

With this release, CEM Users can set the Current Device/Channel. See the CEM Help Section below for a full description of this Macro.

Problem Reports

None.

CEM Help

The purpose of this Section is to describe changes made to the CEM User Interface that will eventually be added to the CEM On-Line Help.

Update to Current State CEM Macro Group

**IsOkCurDevAddr()
SetCurDev()**

Name: IsOkCurDevAddr

Type: Current State

Usage: `if(IsOkCurDevAddr())
{ /* Address Information available for Current Device */
}
else
{ /* No Address Information for Current Device */
}`

Description: This Macro returns: YES/TRUE (currently plus one (1)) if the CEM Kernel has received Address Information for the Current Device from the RTS; or NO/FALSE (currently zero (0)) if the CEM Kernel has not received Address Information for the Current Device from the RTS.

Note The RTS sends Address Information for only those Devices that are used by the currently-loaded ATLAS Program and by the CEM Module. Therefore, a CEM Module could use this Macro to determine, for example, if the Current Device required initialization, testing, etc. prior to starting execution of the currently-loaded ATLAS Program.

See Also: CEM Macro *SetCurDev()*.

Name: SetCurDev

Type: Current State

Usage: **char * pcDevChan;**
int nStatus;

```
pcDevChan = "acps:CH0";           /* For Example  
    */  
nStatus = SetCurDev( pcDevChan );
```

Description: This Macro requests the CEM Kernel to set the Current Device/Channel to the Device/Channel specified by the Device/Channel Name String pointed to by the Character Pointer **pcDevChan**.

When the *action* in which this macro is invoked, either directly or indirectly, returns then the CurrentDevice/Channel is restored to what it was when the users *action* function was invoked.

A Device/Channel Name String has the form:

DeviceName:CHChannelNumber

where: *DeviceName* is the Device Name;
:CH is a literal; and
ChannelNumber is the Channel Number.

If **pcDevChan** is a Null Character Pointer, the CEM Kernel will restore the Current Device/Channel to what it was when the current User's *action* Function was invoked.

Returns: Integer == **OSRSOK** = Current Device/Channel set as requested.
== **OSRSERR** = Error detected.

See Also: CEM Macro *IsOkCurDevAddr()*.