

Custom Localizer Support

Requirements for Custom Localizer

In order to use a custom Localizer, a CMake feature switch `CANDERA_CUSTOM_LOCALIZER_ENABLED` has to be enabled. This flag will disable the usage of `DefaultLocalizer` which loads `LanguagePacks` from an asset.

In addition, please ensure that the following are fulfilled:

- [Candera](#) Globalization sources available
- CMake setting `CANDERA_GLOBALIZATION_ENABLED` is enabled

Defining a Custom Localizer

A custom Localizer class (eg: `CustomLocalizer`) should derive from abstract class

[Candera::Globalization::Localizer](#) and provide implementations for the pure virtual functions:

- [Candera::Globalization::Localizer::SetCurrentCulture](#)
- [Candera::Globalization::Localizer::GetTextBaseString](#)
- [Candera::Globalization::Localizer::GetTextType](#)

For consistency, use [FEATSTD_TYPEDEF_SHARED_POINTER\(CLASS\)](#) and [FEATSTD_SHARED_POINTER_CREATE_DECLARATION\(\)](#) macros to make the class manageable by `SharedPointer`.

Please note that `FEATSTD_SHARED_POINTER_DECLARATION()` macro should not be used in this case, because some base class methods will be overwritten and `SharedPointer` memory management will not work correctly.

Implement corresponding [Create\(\)](#) method like in the following snippet:

```
/******  
Create  
*****/  
  
CustomLocalizer::SharedPointer CustomLocalizer::Create\(\)  
{  
    return CustomLocalizer::SharedPointer(FEATSTD\_NEW(CustomLocalizer));  
}
```

Example: Using a Custom Localizer in Applications

Define cultures

Create new cultures and add them to the list of available cultures of

[Candera::Globalization::GlobalizationCultureManager](#):

```
m_cultureManager.RemoveAllCultures();
for (UInt16 i = 0; i < cultureListSize; ++i) {
    Candera::Globalization::Culture::SharedPointer culture = Culture::Create\(\);
    culture->SetLocale(cultureList[i].locale);
    culture->SetTextDirection(cultureList[i].textDirection);
    culture->SetDisplayName(cultureList[i].locale);
    m_cultureManager.AddCulture(culture);
    m_cultureVct.Add(culture);
}
```

Set default culture to be used in case no current culture is set. This step is mandatory since the default culture will be used for initialization.

```
m_cultureManager.SetDefaultCulture(m_cultureVct[0]);
```

Use a custom localizer

Declare a custom localizer:

```
CustomLocalizer::SharedPointer m_localizer1;
CustomLocalizer::SharedPointer m_localizer2;
```

Create the custom localizer:

```
m_localizer1(CustomLocalizer::Create\(\)),
m_localizer2(CustomLocalizer::Create\(\))
```

After a custom localizer has been created, the new localizer needs to be registered to the CultureManager:

```
GlobalizationCultureManager::GetInstance().SetLocalizer(m_localizer1);
```

Initialize culture by setting current culture. If current culture is not set, default culture will be used.

```
m_cultureManager.SetCurrentCulture(m_cultureVct[0]);
```

Switching localizer during run-time

Since only one localizer is allowed to be registered, in order to set a new localizer, the previous one has to be unregistered by calling SetLocalizer(0), like in the following snippet.

```
GlobalizationCultureManager::GetInstance().SetLocalizer(CustomLocalizer::SharedPoint  
GlobalizationCultureManager::GetInstance().SetLocalizer((toggleLocalizer1) ? m_local
```

Corresponding localizer cultures have to be added to the CultureManager and default culture has to be defined if no current culture is available.

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