User Guide for adding NAND flash (MT29F2G08ABBDA) support in CW 10.3

Revision History

Date	Version	Author	Reason
07/17/2014	1	Mark Wen	Initial version

This docs is to tell user how to add NAND flash support (MT29F2G08ABBDA) in CW 10.3 on customer's T1022.

Add new flash device in the xml file

${CodeWarrior}\PA\bin\plugins\support\TargetTask\Flash Programmer\
QorIQ_T1\T1022xxx_NAND_FLASH

<?xml version="1.0" encoding="UTF-8"?>

<TargetTaskFramework>

<Element Type="TargetTask">

<TargetTask ContextIndex="2" ExecutionContextName="Active Debug Context" ProviderIndex="2" TaskName="T1022xxx_NAND_FLASH" TaskProvider="Flash Programmer for Power Architecture">

<TaskConfiguration Actions_Count="0" Buffer_Address="8192" Buffer_Size="196608" Flash_Base_Address_0="0" Flash_Device_Name_0="MT29F2G08ABBDA-IFC" Flash_Device_Organization_0="256Mx8x1" Flash_Devices_Count="1" Flash_Top_Address_0="267386880" Verify_Memory_Writes="false"/>

</TargetTask>

</Element>

</TargetTaskFramework>

Add a new FP xml device

${CodeWarrior}\PA\bin\plugins\support\Products\ProductData\FPDevices.mwpdb\

FP\MT29F2G08ABBDA-IFC.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<device-file>
<device>
  <version>0.1</version>
<content>
   <name>MT29F2G08ABBDA-IFC</name>
   <device_type>nand</device_type>
   <manufacturerid>0x2c</manufacturerid>
   <chiperase>false</chiperase>
<sectors>
   <sectorcount>2048</sectorcount>
   <sectorsize>0x20000</sectorsize>
</sectors>
   <ontargetverify>true</ontargetverify>
<comment>
################################################################################
###################################
</comment>
<additionalparameter>0x00020000</additionalparameter> <!-- BYTES_PER_BLOCK -->
<additionalparameter>0x00000800</additionalparameter> <!-- BYTES_PER_PAGE -->
<additionalparameter>0x00000040</additionalparameter> <!-- BYTES_PER_SPARE -->
<additionalparameter>2048</additionalparameter>                <!-- NUM_OF_BLOCKS -->
<additionalparameter>2048</additionalparameter>                <!-- BLOCKS_PER_CHIP -->
<additionalparameter>1</additionalparameter>                   <!--
BAD_BLOCK_MECHANISM_TYPE -->
```

<organization>

<name>256Mx8x1</name>

<id>0xaa</id>

<algorithm>MT29FxG08-IFC.elf</algorithm>

<utility>MT29FxG08-IFCUtility.elf</utility>

</organization>

<verifyafterprogram>true</verifyafterprogram>

<autodetectprocessorinfo>true</autodetectprocessorinfo>

</content>

</device>

</device-file>

Update the manifest that specifies which device exists

${CodeWarrior}\PA \bin\plugins\support\Products\ProductData\FPDevices.mwpdb

<file>

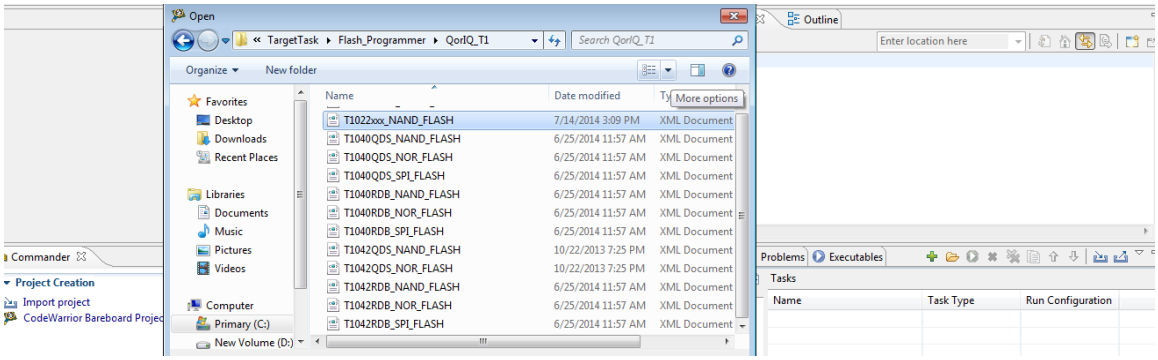
<name>MT29F2G08ABBDA-IFC</name>

<version>0.1</version>

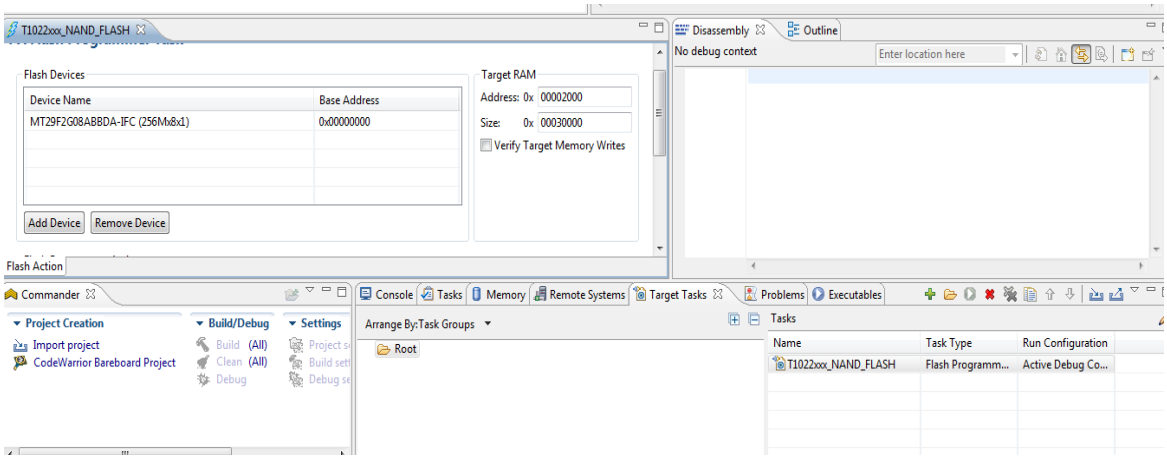
<path>FP/MT29F2G08ABBDA-IFC.xml</path>

</file>

On target tasks then import the flash programmer file you made.



After importing , user can see the sceen as below.



User can execute the flash programmer action (Erase , program ..etc)

This method is verified on customer ‘s T1022 board. The NAND read/write is available.