Integrated Development Environment e2 studio

e2 studio with Trac and Mylyn Trac Connector plug-in

Introduction

Trac is an enhanced wiki and issue tracking system for software development projects. Mylyn Trac Connector is a plug-in for Eclipse. It provides the connector to access task repository of Trac from Eclipse. e^2 studio is an integrated development environment based on Eclipse, so that e^2 studio is possible to realize work with external tool using plugin of Eclipse. This document describes how to utilize Trac from e^2 studio using Mylyn Trac Connector plugin

Contents

1. Introduction

1.1 e^2 studio with Trac and Mylyn Trac Connector plug-in

Mylyn is a task-focused interfaced of Eclipse to keep track of the tasks. The tasks can be stored in local workspace or share with other thought task repositories. A task repository is a bug/ticket/issue tracker such as Bugzilla, Trac, JIRA, and other.

The Mylyn Trac Connector provides Eclipse integration for accessing Trac issues including offline editing and access to attachments. e2 studio is an integrated development environment based on Eclipse, so that e2 studio is possible to realize work with external tool using plugin of Eclipse.

1.2 Environment

This document is described based on environment as the following:

e^2 studio:	2.1.0.xx
Mylyn:	3.9.0
Trac:	1.0
Mylyn Trac Connector:	3.9.0
OS:	Windows 7

2.   Install Mylyn Trac Connector plugin

2.1   Prerequisites installation

This section describes how to install the Mylyn Trac Connector plug-in to e2 studio. But at first, we need to prepare environments as below:

- e^2 studio is installed correctly
- The Mylyn Task List is installed correctly
- Trac is installed on server correctly

This document will not describe use mylyn task list, how to install mylyn task list and e^2 studio.

2.2   Mylyn Trac Connector installation instruction

Mylyn Trac Connector can be simply installed from within e2 studio using update manager. All what the user should do is just point update manager to the remote or local update-site. To install Mylyn Trac Connector:

1. Start e2 studio and select menu item 'Help' > 'Install New Software...' the 'Install' wizard opens.
2. On 'Work with' field, direct to Mylyn update-site (http://download.eclipse.org/mylyn/releases/latest).
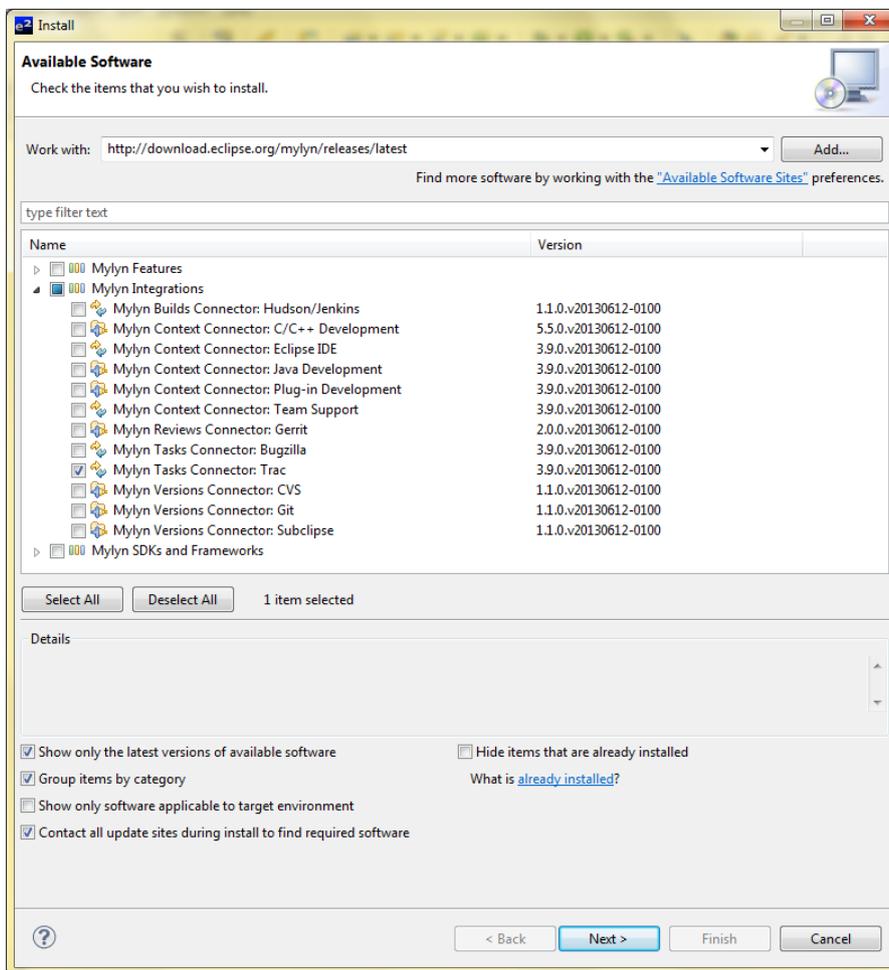
3. Select 'Mylyn Tasks Connector: Trac" item to install.
4. Press the 'Next >' button.
5. Accept terms of license agreement and click the 'Finish' button in order to start the download of selected features.
6. To apply installation changes and restart e^2 studio, press on the 'Yes' button.

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3. Usage

3.1 Workflow of connection from Trac issue to Mylyn Task List
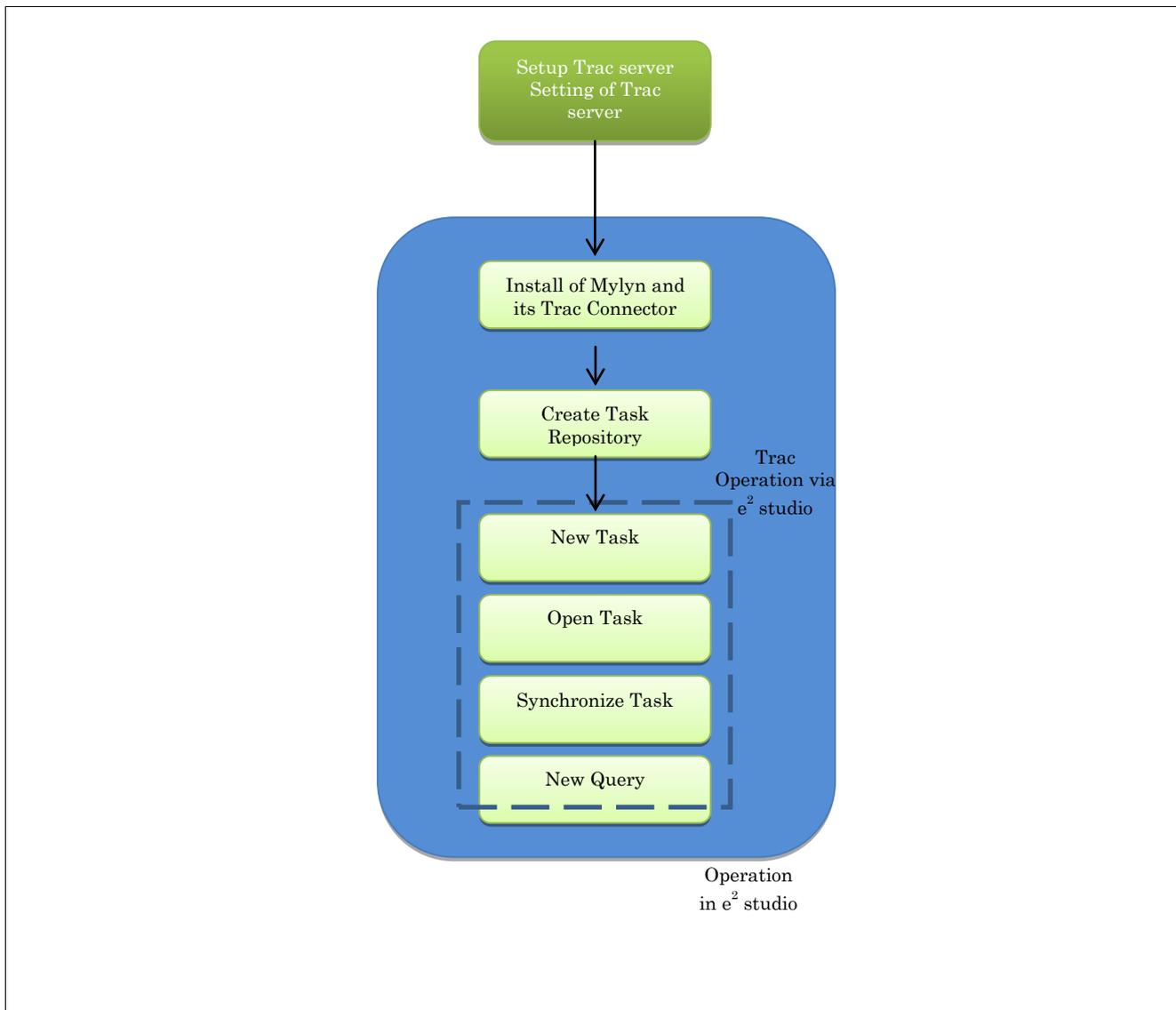

Figure 1   Workflow of connection from Trac issue to Mylyn task list

## 3.2   Architecture of Trac and e^2 studio co-operation
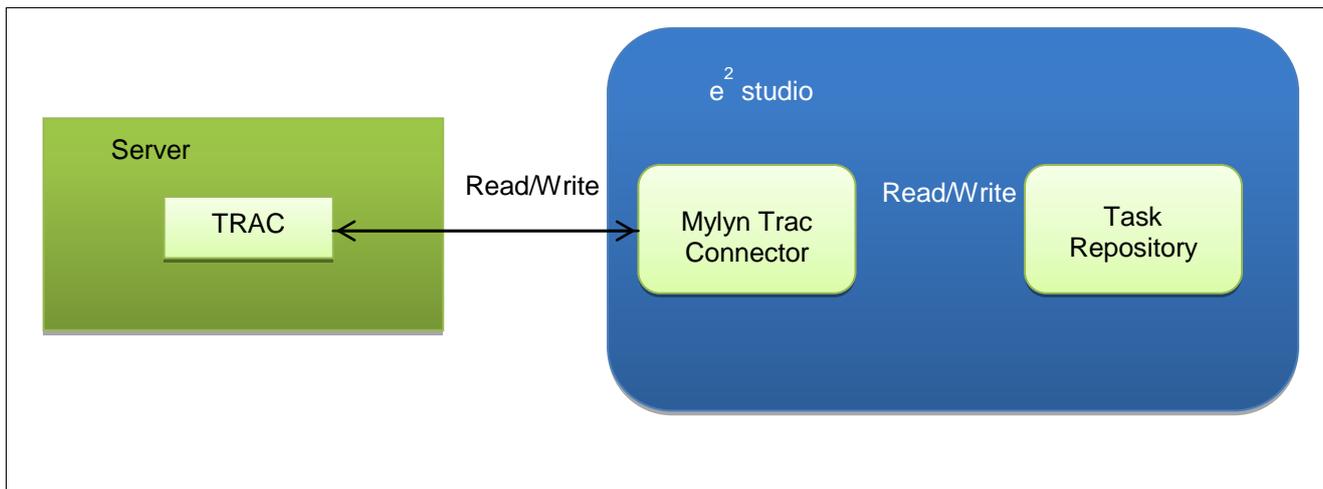
Figure 2: Architecture of Trac and e^2 studio co-operation

## 3.3   Create Trac Task Repository

To create a new Trac Task Repository:

1. On the menu item of e^2 studio, navigate to 'Window' > 'Show view' > 'Other…' > 'Mylyn' > 'Task Repositories'
2. On the 'Task Repositories' view, right click to open context menu > 'Add Task Repository…'
3. The 'Add Task Repository' dialog will be shown, select a task repository type is 'Trac' > press the 'Next' button
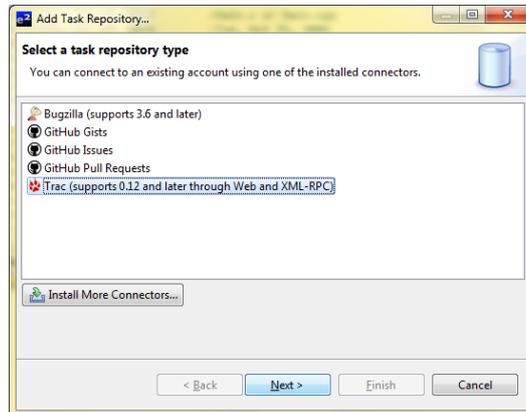
4. Modify settings:
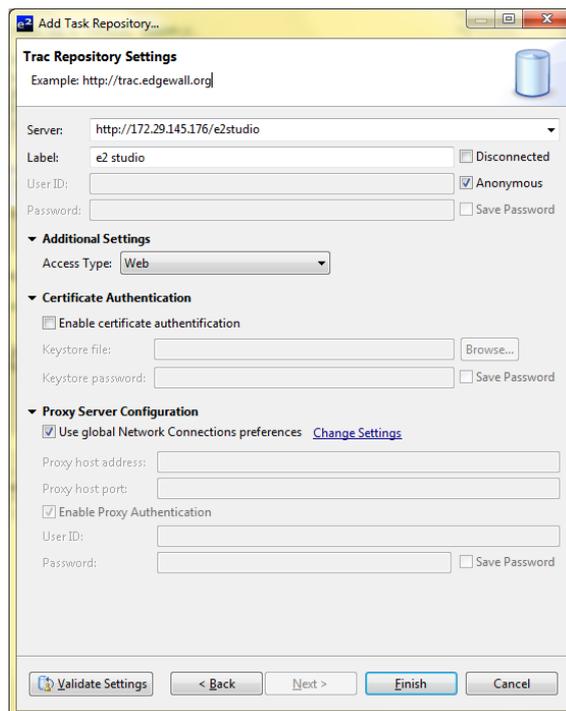
a. Server: Specifies an URL server's address
b. Label: Specifies label will be used for Trac repository
c. User name, password: uncheck 'Anonymous' and input username password (optional)
d. Access Type: select method access repository:
  - XML-RCP: This access method offers editing of tasks in a rich editor, attachment support and offline editing. It requires the XmlRpcPlugin for Trac to be enabled for the accessed repository. (Please refer http://trac-hacks.org/wiki/XmlRpcPlugin#Installation for installation instructions)
  - Web: the standard Trac web interface is used for repository access
e. Keystore file, keystore password: input keystore file and keystore password by check on 'Enable certificate authentication' (optional)

5. Press the 'Finish' button
6. The 'Add new query' question dialog will be shown. Press the 'Yes' if user want to add a query to Task List for this repository.
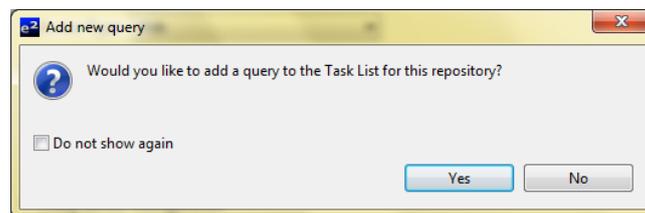
7. Trac task repository is created successfully
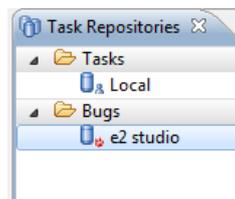
3.4 New query

To create new query for Trac task repository:

1. On the menu items of e2 studio, navigate to 'Window' > 'Show view' > 'Other…' > 'Mylyn' > 'Task Repositories'
2. Select a Trac task repository > right click to open context menu > select 'New Query…'
3. The 'Edit query' dialog will be shown > modify the 'Title' field > edit query parameter
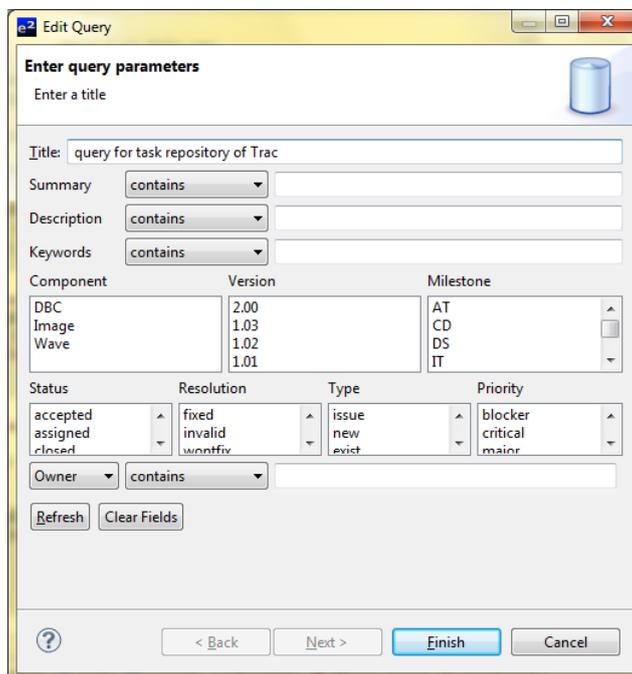
4. Press the 'Finish' button to create new query of Trac successfully

3.5 New task (new ticket on Trac)

To create new task for Trac task repository:

1. On the menu item of e2 studio, navigate to 'Window' > 'Show view' > 'Other…' > 'Mylyn' > 'Task Repositories'
2. Select a Trac task repository > right click to open context menu > select 'New Task…'
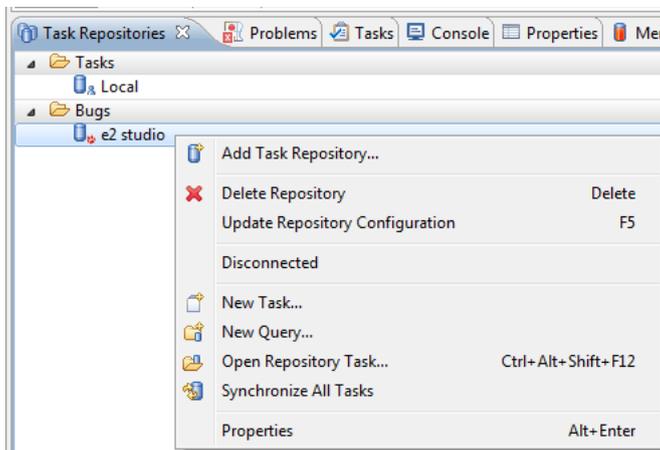
3. e2 studio invokes web-interface to create new ticket on Trac

4. Modify information > Save
5. Ticket will be created successfully

3.6   Set private for a task of Trac

Set private for a task of Trac is only effective for e2 studio data. It does not change data on task repository of Trac. To set private for a task of Trac:

1. On the menu items of e2 studio, navigate to 'Window' > 'Show view' > 'Other …' > 'Mylyn' > 'Task List'
2. Select a task in category query of Trac task repository > 'Open'
3. On the 'Private' tab, set schedule, due day, estimate hour, make a note for task
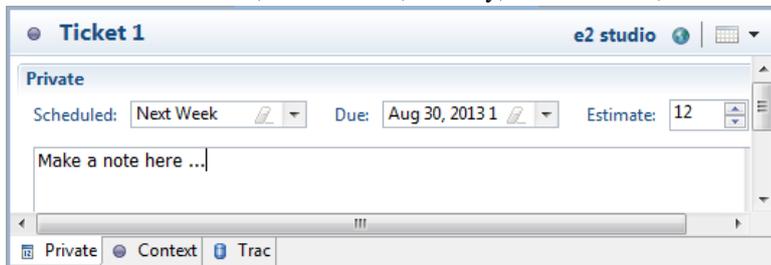
3.7   Open existing repository task

To open existing repository task:

1. On the menu item of e2 studio, navigate to 'Window' > 'Show view' > 'Other…' > 'Mylyn' > 'Task Repositories'
2. Select a task repository, right click > 'Open Repository Task…'
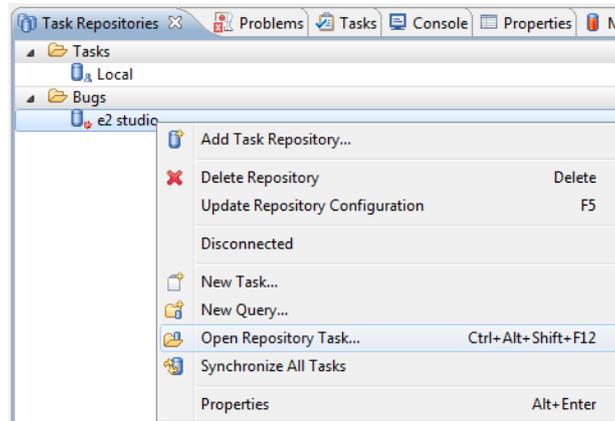
3. The 'Open Repository Task' dialog will be shown > enter Key/ID to find repository task
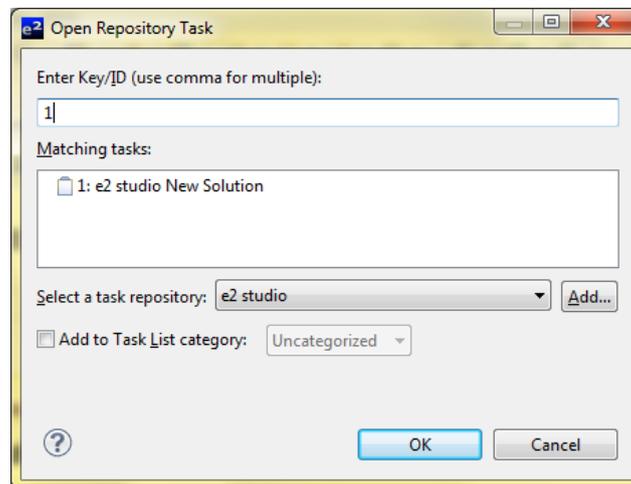
4. Press the 'OK' button to open repository task

3.8   Synchronize task repository

To 'Synchronize task repository':

1. On the menu items of e2 studio, navigate to 'Window' > 'Show view' > 'Other…' > 'Mylyn' > 'Task Repositories'
2. Right click on task repository > 'Synchronize All Tasks'
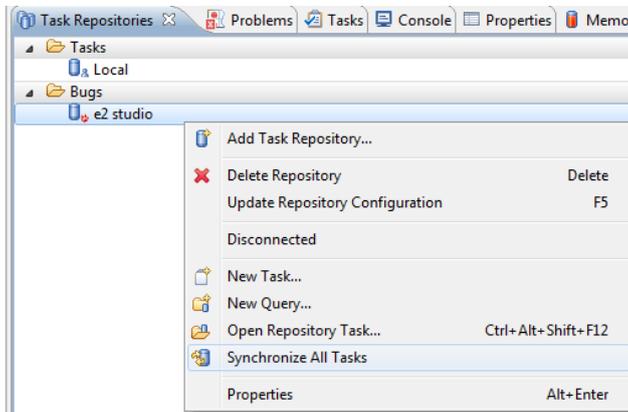
4. Reference Information

4.1 Web Site

Eclipse Mylyn plug-in home page URL:

http://eclipse.org/mylyn

Eclipse home page URL:

http://eclipse.org

Mylyn Documentation URL:

http://wiki.eclipse.org/index.php/Mylyn/User_Guide

How to install xml-rpc plugin URL:

http://trac-hacks.org/wiki/XmlRpcPlugin#Installation

Website and Support <website and support,ws>

Renesas Electronics Website
   http://www.renesas.com/

Inquiries
   http://www.renesas.com/contact/

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General Precautions in the Handling of MPU/MCU Products

The following usage notes are applicable to all MPU/MCU products from Renesas. For detailed usage notes on the products covered by this document, refer to the relevant sections of the document as well as any technical updates that have been issued for the products.

1. Handling of Unused Pins

   Handle unused pins in accord with the directions given under Handling of Unused Pins in the manual.

   — The input pins of CMOS products are generally in the high-impedance state. In operation with an unused pin in the open-circuit state, extra electromagnetic noise is induced in the vicinity of LSI, an associated shoot-through current flows internally, and malfunctions occur due to the false recognition of the pin state as an input signal become possible. Unused pins should be handled as described under Handling of Unused Pins in the manual.

2. Processing at Power-on

   The state of the product is undefined at the moment when power is supplied.

   — The states of internal circuits in the LSI are indeterminate and the states of register settings and pins are undefined at the moment when power is supplied.

   In a finished product where the reset signal is applied to the external reset pin, the states of pins are not guaranteed from the moment when power is supplied until the reset process is completed.

   In a similar way, the states of pins in a product that is reset by an on-chip power-on reset function are not guaranteed from the moment when power is supplied until the power reaches the level at which resetting has been specified.

3. Prohibition of Access to Reserved Addresses

   Access to reserved addresses is prohibited.

   — The reserved addresses are provided for the possible future expansion of functions. Do not access these addresses; the correct operation of LSI is not guaranteed if they are accessed.

4. Clock Signals

   After applying a reset, only release the reset line after the operating clock signal has become stable. When switching the clock signal during program execution, wait until the target clock signal has stabilized.

   — When the clock signal is generated with an external resonator (or from an external oscillator) during a reset, ensure that the reset line is only released after full stabilization of the clock signal. Moreover, when switching to a clock signal produced with an external resonator (or by an external oscillator) while program execution is in progress, wait until the target clock signal is stable.

5. Differences between Products

   Before changing from one product to another, i.e. to a product with a different type number, confirm that the change will not lead to problems.

   — The characteristics of an MPU or MCU in the same group but having a different part number may differ in terms of the internal memory capacity, layout pattern, and other factors, which can affect the ranges of electrical characteristics, such as characteristic values, operating margins, immunity to noise, and amount of radiated noise. When changing to a product with a different part number, implement a system-evaluation test for the given product.

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