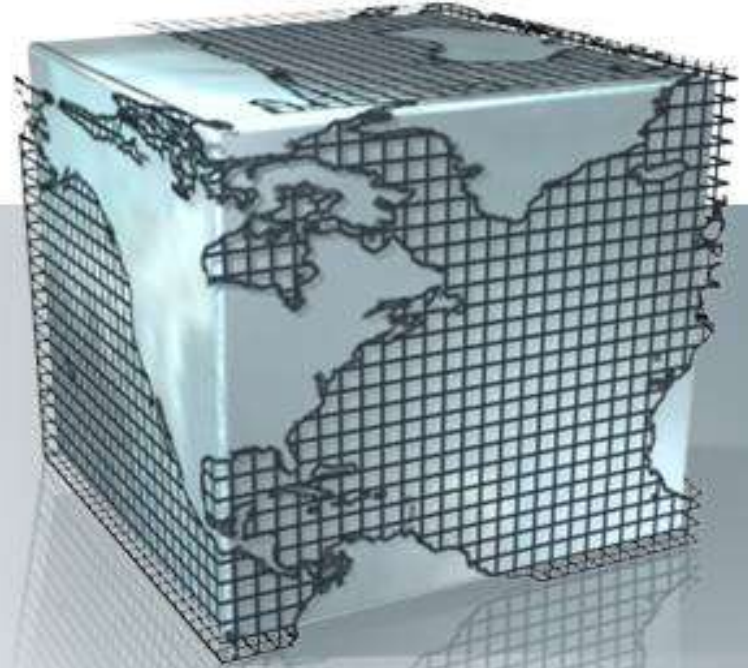


DTM (Dynamic Task Manager) Version 4.0

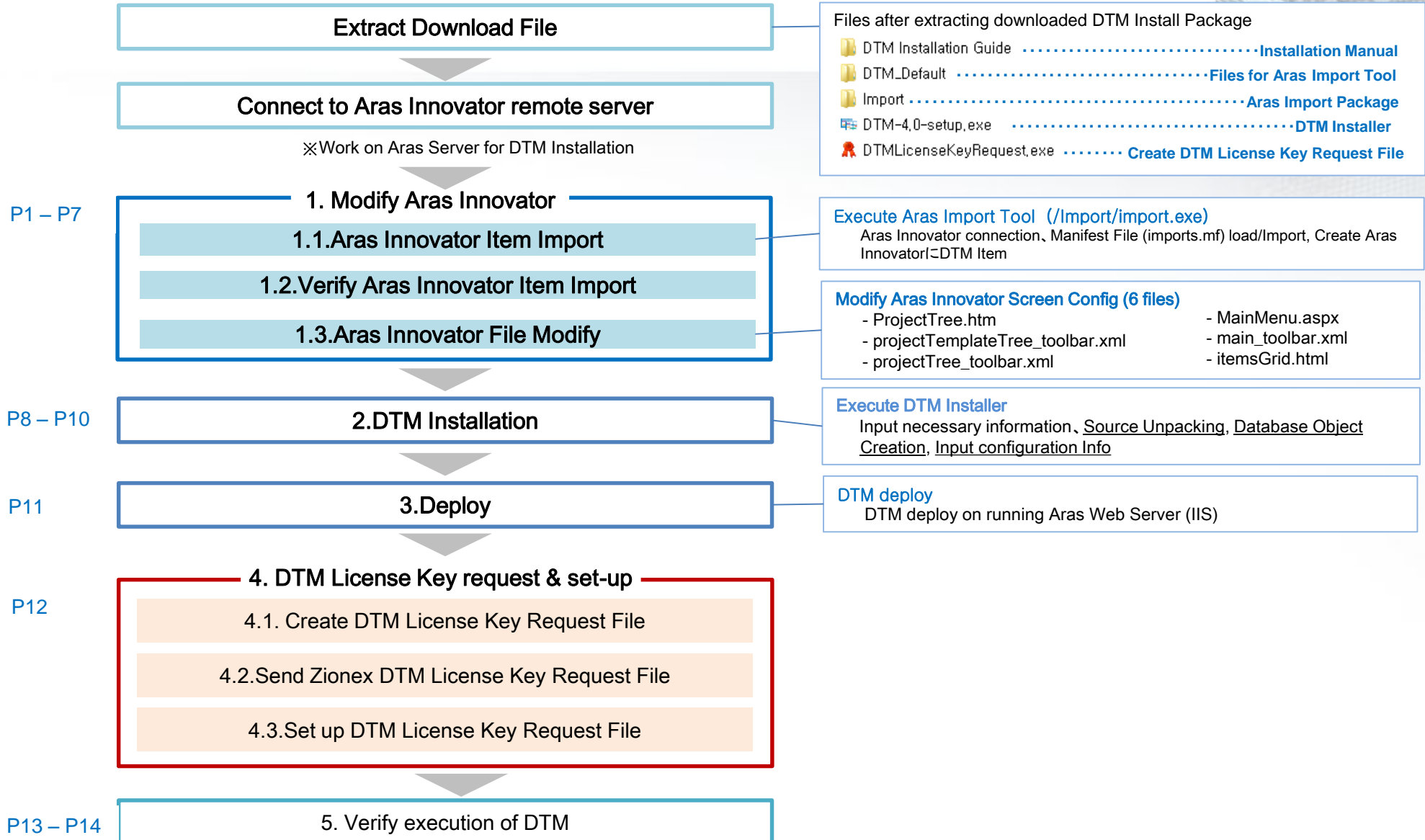
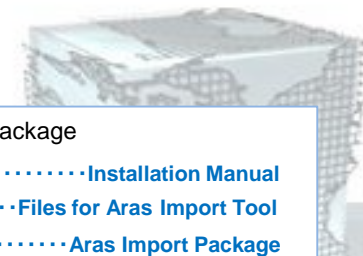
Installation Guide

(English)

November 1, 2014



Procedure (Summary)





1. Modify Aras Innovator

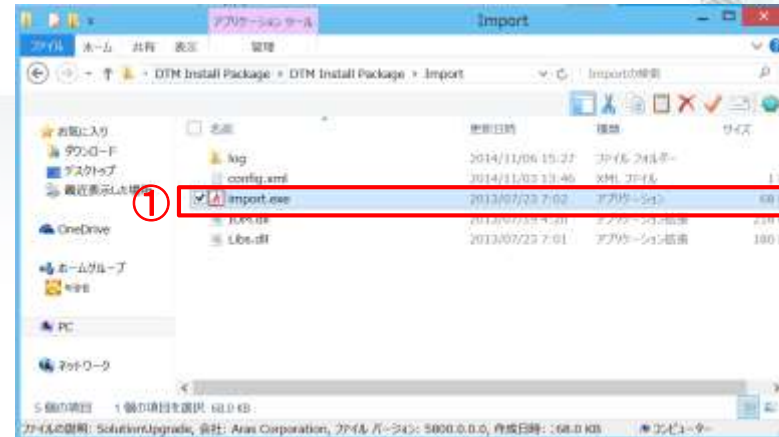
1. Modify Aras Innovator

1.1. Aras Innovator Item Import

① Execute import.exe in Aras Import Package

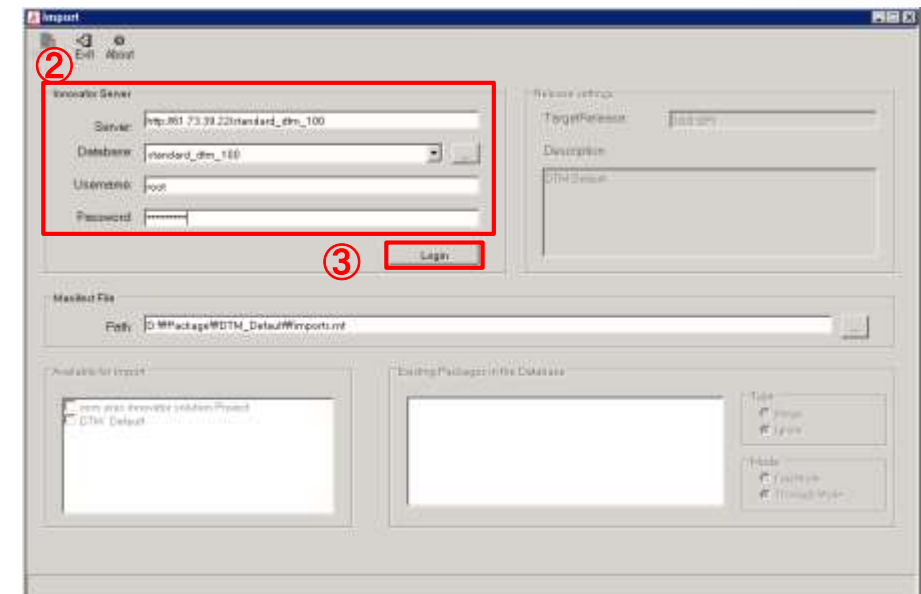
- Path:

ex) {DTM Install Package}\Import



② Input information on Aras Innovator

- Server: Input Server URL on which DTM Package apply
- Database: Select Database
- Username: Input Admin User ID
(“root” or “admin”)
- Password: Input password of the above User ID
(Default: “innovator”)



③ Login

1. Modify Aras Innovator

1.1. Aras Innovator Item Import



④ TargetRelease: Input Aras targeted Release Version
(Ex: 10.0 SP1)

⑤ Description: Input description which explain purpose
of use
(Ex: "Trial")

⑥ Manifest File : Search path which contains mf file in
Import Package then specify imports.mf
DTM Install Package/DTM_Default/ imports.mf

⑦ Select all the list for import

⑧ Type: Select Merge / Mode : Select "Thorough
Mode"

[Type]

In case there are already the same item in the DB,

Merge: Update

Ignore: do not execute import

[Mode]

Fast: No verification AML

Thorough: Verify that there is no related item

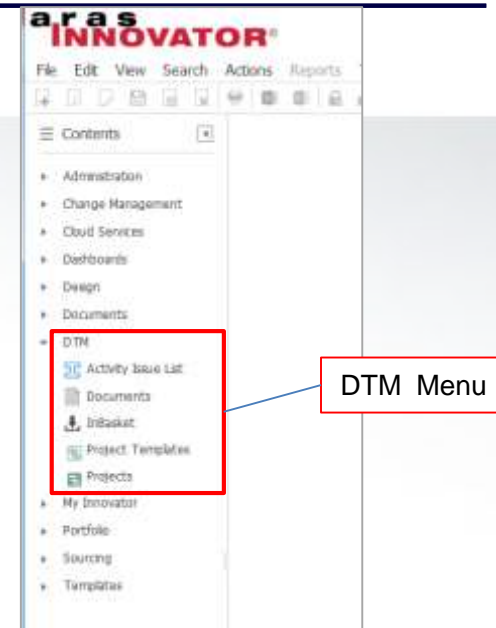
⑨ Execute Import

1. Modify Aras Innovator

1.2. Verify Aras Innovator Item Import

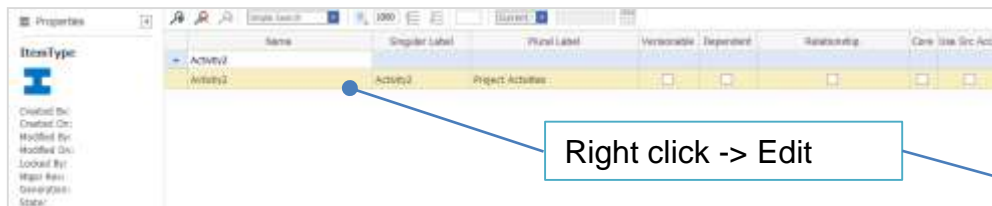


- ① Verify that “DTM Default” is appropriately applied.
 - Login Aras Innovator and check TOC menu



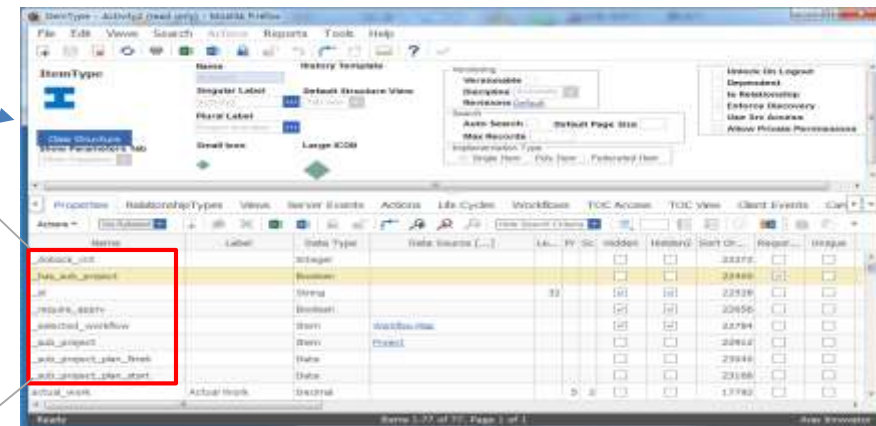
- ② Verify that “Com.Aras.Innovator.Solution.Package” is appropriately applied

1) Search Name=“Activity2” in TOC>Administrator>Itemtype



2) Check the 8 property were added

doack_cmt
has_sub_project
id
require_appiv
selected_workflow
sub_project
sub_project_plan_finish
sub_project_plan_start





Edit Aras Innovator Screen configuration files with text editor (1/4)

{Aras Innovator}\Innovator\Client\Solutions\Project\scripts\ProjectTree.htm

Add the red text below;

1-1

```
...
case 'show_gantt_chart':
showGantt();
break;
case 'show_scheduling_gantt_chart':
showGanttChartView();
break;
case 'execute_filter':
setFlagsAndExecuteFilterOrClearFilter();
break;
...
```

1-2

```
...
</body>
<script LANGUAGE='JavaScript' SRC='modal.js'></script>
<script LANGUAGE='JavaScript' SRC='ProjectTreeAdd.js'></script>
</html>
...
```




Edit Aras Innovator Screen configuration files with text editor (2/4)

Add the red text below;

① {Aras Innovator}¥Innovator¥Client¥Solutions¥Project¥xml(.language)¥projectTree_toolbar.xml

2-1

```
...  
<button image="../../images/ProjectCollapseAll.svg" id="collapse_all" tooltip="Collapse All" text="Collapse All"/>  
<separator/>  
<button image="icons/Project/20x20_GanttChart_new.gif" id="show_scheduling_gantt_chart" tooltip="Show Gantt Chart"  
text="Show Gantt Chart"/>  
<button image="../../images/GanttChart.svg" id="show_gantt_chart" tooltip="Show Gantt Chart" text="Show Gantt Chart"/>  
...
```

②{ArasInnovator}¥Innovator¥Client¥Solutions¥Project¥xml(.language)¥projectTemplateTree_toolbar.xml

2-2

```
...  
<button disabled="true" image="../../images/Paste.svg" id="paste" tooltip="Paste" text="Paste"/>  
<separator/>  
<button image="icons/Project/20x20_GanttChart_new.gif" id="show_scheduling_gantt_chart" tooltip="Show Gantt Chart"  
text="Show Gantt Chart"/>  
<separator/>  
<button image="../../images/ProjectExpandAll.svg" id="expand_all" tooltip="Expand All" text="Expand All"/>  
<button image="../../images/ProjectCollapseAll.svg" id="collapse_all" tooltip="Collapse All" text="Collapse All"/>  
<separator/>  
...
```

- In case that other folder other than xml folder such as xml.ja, please edit the folder information which is created for localization, as well as xlm. The structure is same as xml folder.



Edit Aras Innovator Screen configuration files with text editor (3/4)

☆You can skip this if you do not use "Project Load Summary".

{Aras Innovator}¥Innovator¥Client¥scripts¥MainMenu.aspx

Add the red text below;

3-1

```
...
else if (cmdID == 'help_context') {
top.aras.ShowContextHelp(itemTypeName);
}
else if (cmdID == 'show_projects_load_summary') {
showLoadSummaryView();
}
else if (cmdID == 'current_session')
onMySession();
...
```

3-2

```
...
onunload = function unload_handler() {
aras.unregisterEventHandler("VariableChanged", window, window.onVariableChanged);
aras.unregisterEventHandler("PreferenceValueChanged", window, window.onPreferenceValueChanged);
}
</script>
<script LANGUAGE='JavaScript' SRC='modal.js'></script>
<script LANGUAGE='JavaScript' SRC='MainMenuAdd.js'></script>
</head>
</html>
```



Edit Aras Innovator Screen configuration files with text editor (4/4)

☆You can skip this if you do not use “Project Load Summary”.

Add the red text below;

{Aras Innovator}¥Innovator¥Client¥xml(.language)¥main_toolbar.xml

4-1

```
...
<button text="Logout" id="Logout" image="../images/Exit.svg" tooltip="Logout" statusmsg="Logout"/>
<separator/>
<button image="../images/20x20 DTMLoad.gif" id="show_projects_load_summary" tooltip="Show Projects Load Summary" text="Show Project Load Summary" disabled="true"/>
</toolbar>
<toolbar id="inbasket_toolbar">
...
```

{Aras Innovator}¥Innovator¥Client¥scripts¥itemsGrid.html

4-2

```
...
<script>
var aras = arasObj = top.aras;
</script>
<script LANGUAGE='JavaScript' SRC='itemsGridAdd.js'></script>
<script type="text/javascript" src="../javascript/include.aspx?classes=/dojo.js" data-dojo-config="isDebug: false, parseOnLoad: false,
baseUrl:'../javascript/dojo'"></script>
...
```

4-3

```
...
function onInitialize()
{
    setControlEnabledProjectsLoadSummary();
    currItemType = arasObj.getItemTypeDictionary(arasObj.getItemTypeName(itemTypeID));
    if (!currItemType || currItemType.isError())
    {
        currItemType = null;
        return false;
    }
    ...
}
```



2. DTM Installation

2. DTM Installation (1/3)



Execute DTM-4.0-setup.exe

- ① Input Aras Innovator installation path
- ② Destination Folder: Aras Innovator installation default path is preliminary setup
ex) C:\Program Files (x86)\Aras\Innovator
- ③ In case that Aras is installed in non-default path, please change path
- ④ Click [Next]

Setup File

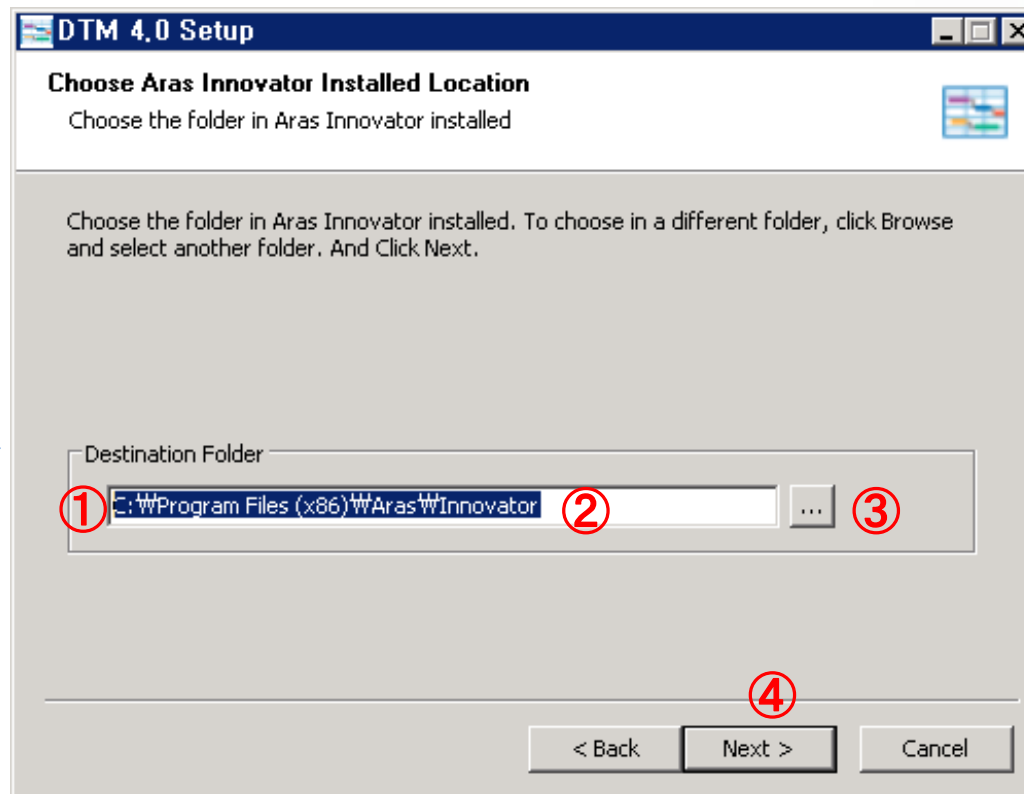


Double click

Welcome page



Next>



2. DTM Installation (2/3)

⑤ Select Aras Database on which you add-on DTM

⑥ Click [Next]

Input the information for Server configuration

⑦ **Input Web Alias of Aras Innovator.**

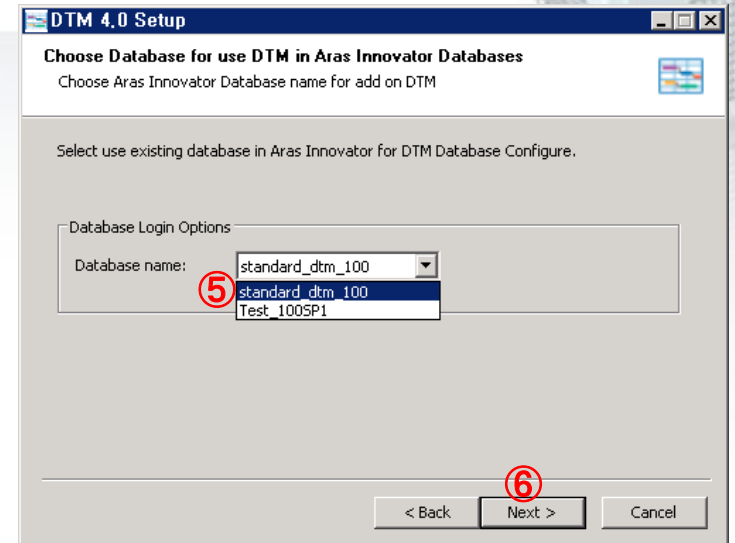
- ✓ Basically the Web Alias. Default is preliminary setup.
- ✓ In case that Aras is installed in non-default path, please change path

⑧ **Input ID/Password (Admin / innovator)**

⑨ **Input DTM Web Alias**

DTM. Default (DTM Server) is preliminary setup.

⑩ **Click [Next]**



DTM 4.0 Setup

Choose Database for use DTM in Aras Innovator Databases

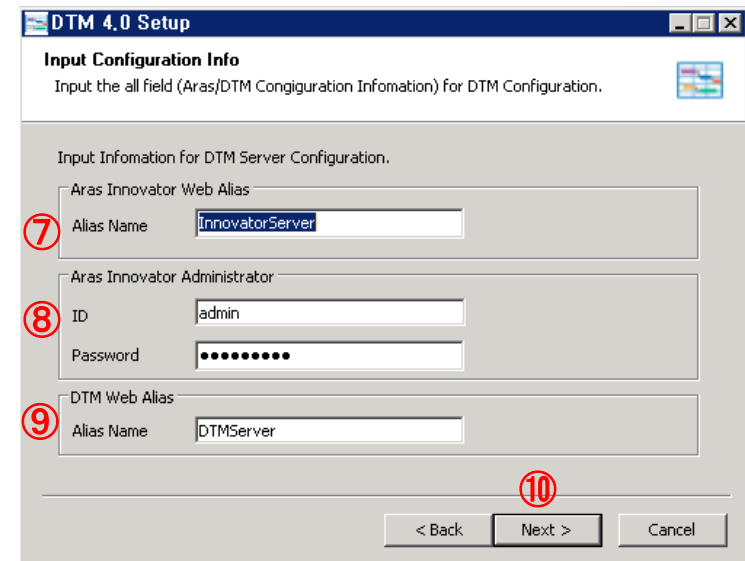
Choose Aras Innovator Database name for add on DTM

Select use existing database in Aras Innovator for DTM Database Configure.

Database Login Options

Database name: ⑤ standard_dtm_100
standard_dtm_100
Test_100SP1

⑥ < Back Next > Cancel



DTM 4.0 Setup

Input Configuration Info

Input the all field (Aras/DTM Configuration Information) for DTM Configuration.

Input Information for DTM Server Configuration.

Aras Innovator Web Alias

⑦ Alias Name: innovatorServer

Aras Innovator Administrator

⑧ ID: admin

Password:

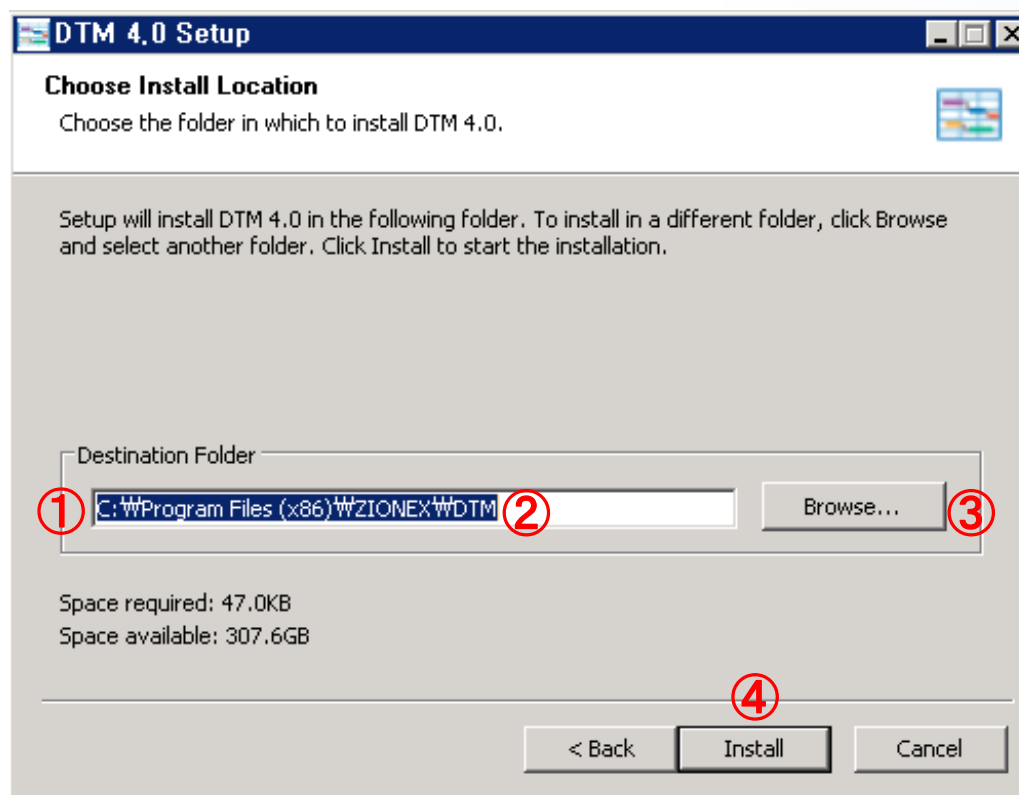
DTM Web Alias

⑨ Alias Name: DTMServer

⑩ < Back Next > Cancel

2. DTM Installation (3/3)

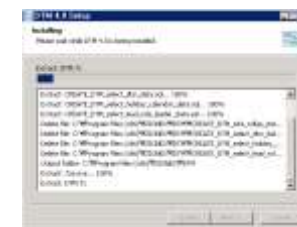
- ⑩ **Input DTM Install Path**
- ⑪ **Destination Folder: Default path is same as Aras Innovator installation path.**
ex) C:¥Program Files (x86)¥ZIONEX¥DTM
- ⑫ **In case you install non-default path, please change path**
- ⑬ **Click [Install]**



Complete page



Progress page



Install

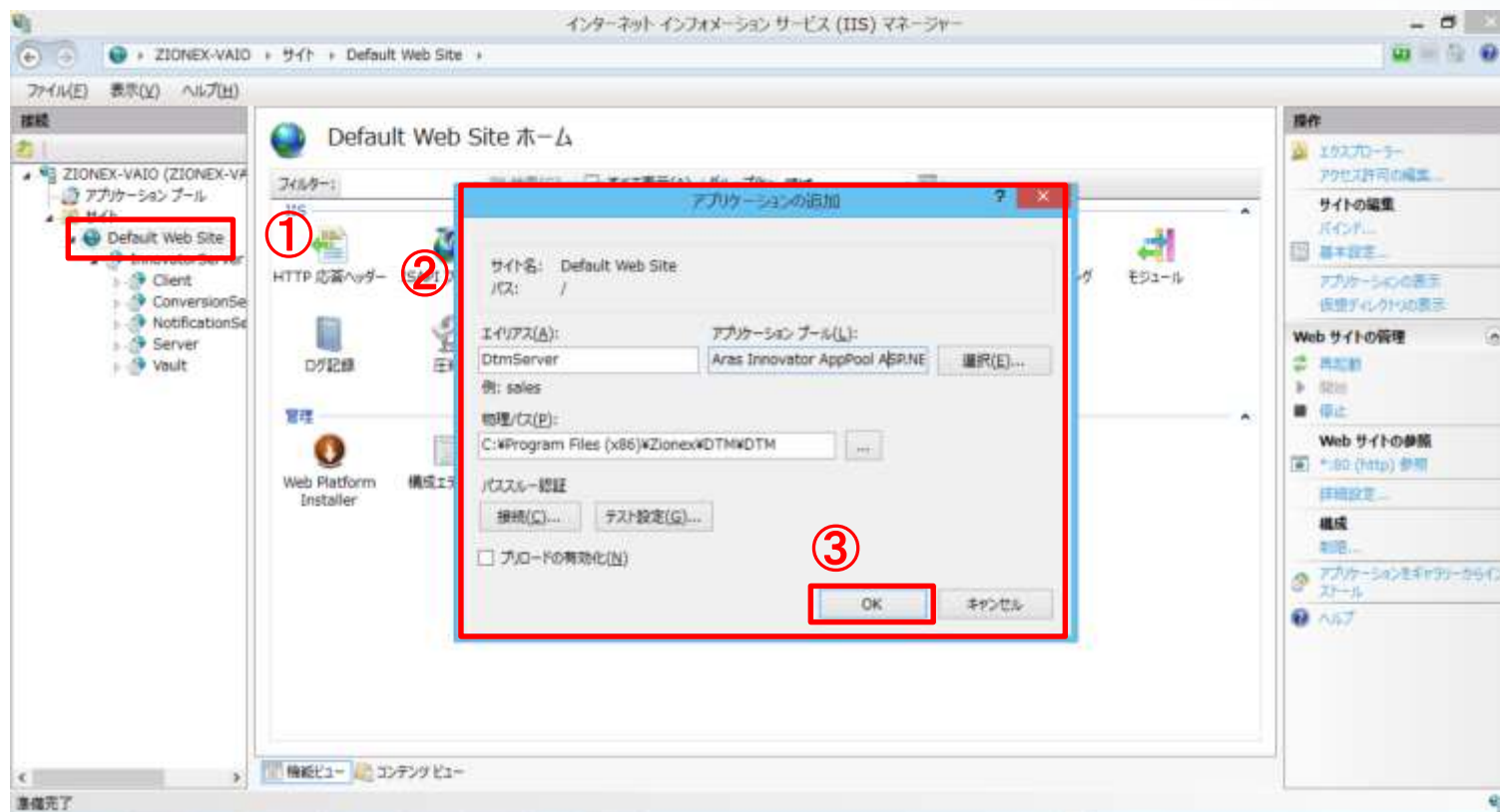


3. Deploy

3. Deploy(1/1) Add Application Program



- ① Click Right mouse button > Select “Add Application Program”
- ② Input the information in Popup window “Add Application program”
 - Name: Input DTM Web Alias ex) DTMServer
 - Application program pool: ASP.NET v4.0
 - Path: Input DTM Source path ex) C:¥Program Files (x86)¥ZIONEX¥DTM¥DTM
- ③ Click [OK]





4. DTM License Key request & set-up

4. DTM License Key request & set-up



1. Create DTM License Key Request File

- ① Execute DTMLicenseKeyRequest.exe
- ② Input your Company Name(Mandatory)
- ③ Select option and click [Create] button
- ④ Confirm that dtm_license.lic is created in the same folder

2. Please mail dtm_license.lic to sales-j@zionex.com to request DTM License Key

3. Zionex will send you dtm_license.lic with License Code

4. Copy dtm_license.lic in DTM installation folder

(ex)C:\Program Files (x86)\ZIONEX\DTM\DTM)

DTM License

DTM License Key Request

Company Name (English Only)

DTM Version

MAC Address

License Due Date

Trial ☐

Option

- ☐ Sub-Project Management
- ☐ Approval Management
- ☐ Input/Output Document Management
- ☐ Resource Load Chart by Project
- ☐ Project Template Management
- ☐ Modular Template
- ☐ Resource Load Chart Summary for All Project

Create Close

Company Name : Company or User name(Mandatory)

DTM Version : Show Version

MAC Address : MAC address of installation server

License Due Date : License expiring date

Trial – For Trial, all option are automatically checked and the duration is 1 month

Option – Select Option




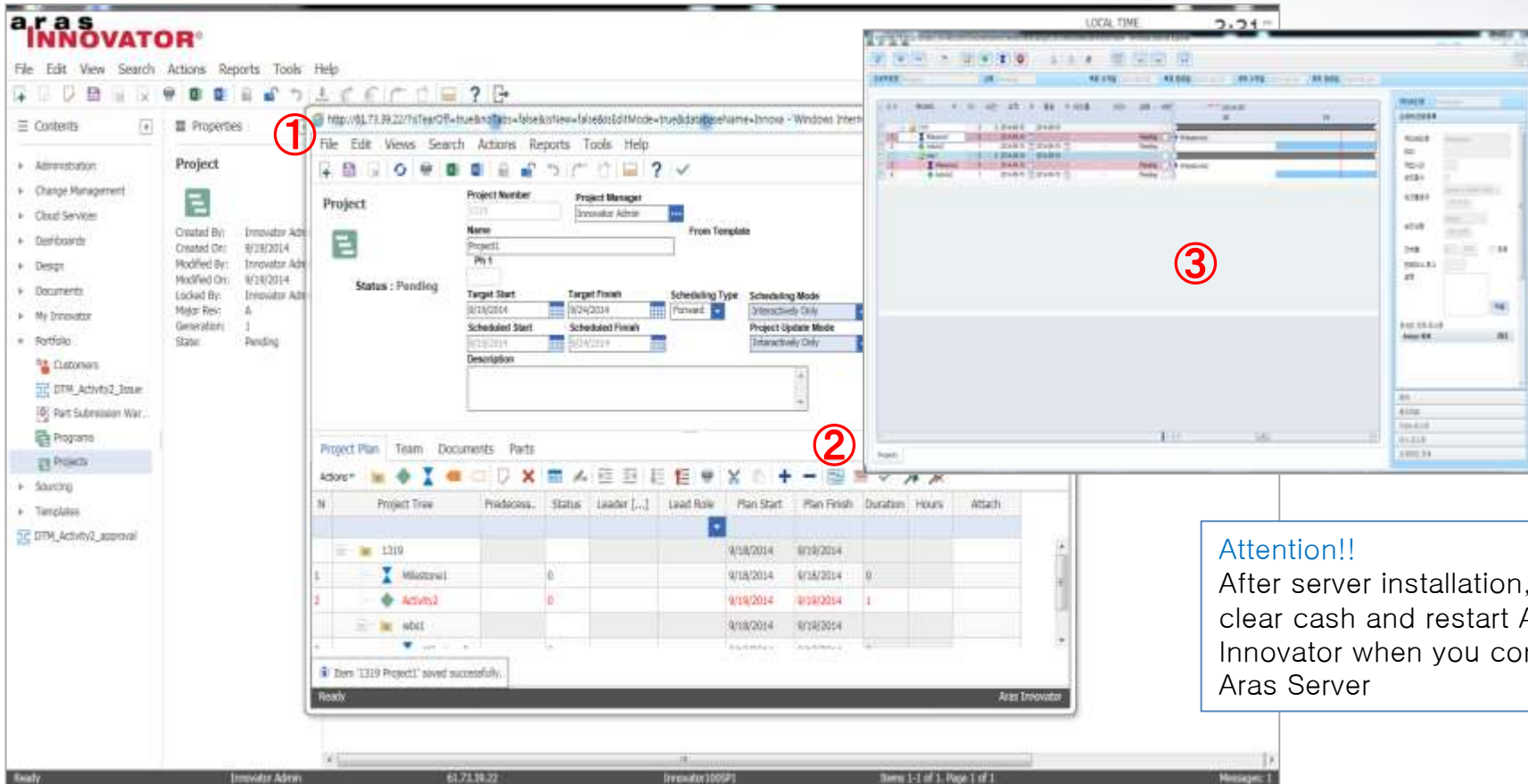
5. Verify execution of DTM

5. Verify execution of DTM – Verify execution of Gantt Chart



Clear cash on the browser, restart Aras Innovator, then confirm the below ①②③

- ① Open Aras Innovator Project
- ② Click DTM Gantt Icon 
- ③ Confirm that DTM Gantt Chart shows



The screenshot displays the Aras Innovator web application. The main window shows the 'Project' management interface. A red circle ① highlights the 'Project' tab in the sidebar. A red circle ② highlights the 'DTM Gantt' icon in the top toolbar. A red circle ③ highlights the Gantt chart view, which displays a project plan with tasks and their durations. The Gantt chart shows a project named '1319' with tasks 'Milestone1' and 'Activity2'. The status of the project is 'Pending'.

Attention!!
After server installation, please clear cash and restart Aras Innovator when you connect to Aras Server

5. Verify execution of DTM – Verify execution Project Load Summary Graph



In case you selected “Project Load Summary Graph”, please confirm below;

- ① Select Aras Innovator Project list
- ② Click “Projects Load Summary Graph” Icon
- ③ Confirm that “Projects Load Summary Graph”

The screenshot displays the Aras Innovator web application. On the left sidebar, the 'Projects' icon is highlighted with a red circle ①. The main content area shows a table of project data with columns for Project Number, Name, and Status. A red circle ② points to the 'Projects Load Summary Graph' icon in the top navigation bar. Below the table, a graph area is visible, labeled with a red circle ③, showing a summary of project load data. The bottom status bar indicates the user is 'Innovator Admin' and the session is 'standard_dtm_100'.



Trouble shooting in DTM execution

1. Check web.config



- ① Open web.config with text editor
(ex)C:\Program Files (x86)\ZIONEX\DTM\DTM\web.config
- ② Check the configuration by DTM installation is correct
- ③ Please modify in case there are any incorrect description.

```
<!-- Start DTM Configuration Set -->
<!-- For Aras Connection Info -->
<add key="aras_con_info" value="http://localhost/InnovatorServer/Server/InnovatorServer.aspx"/>
<add key="aras_user_info" value="admin"/>
<add key="aras_password_info" value="innovator"/>
<add key="aras_install_info" value="C:\\Program Files (x86)\\Aras\\Innovator\\"/>

<!-- For DTM Connection Info -->
<add key="dtm_con_info" value="/DTMServer/">
<add key="dtm_install_info" value="C:\\Program Files (x86)\\ZIONEX\\DTM\\DTM\\"/>
<add key="gantt_define_info" value="C:\\Program Files (x86)\\ZIONEX\\DTM\\DTM\\Gantt\\DTMGanttDef.xml"/>
<add key="gantt_temp_define_info" value="C:\\Program Files (x86)\\ZIONEX\\DTM\\DTM\\Gantt\\DTMGanttTempDef.xml"/>
<add key="gantt_resource_define_info" value="C:\\Program Files (x86)\\ZIONEX\\DTM\\DTM\\Gantt\\DTMResourceDef.xml"/>
<add key="gantt_projects_define_info" value="C:\\Program Files (x86)\\ZIONEX\\DTM\\DTM\\Gantt\\DTMProjectsDef.xml"/>
<add key="gantt_projects_resource_define_info" value="C:\\Program Files (x86)\\ZIONEX\\DTM\\DTM\\Gantt\\DTMProjectsResourceDef.xml"/>

<!-- For DTM Scheduling Logic Info-->
<add key="dtm_scheduling_info" value="1"/>

<!-- For DTM License Info -->
<add key="dtm_license_info" value="C:\\Program Files (x86)\\ZIONEX\\DTM\\DTM\\License\\dtm_license.lic"/>

<!-- End DTM Configuration Set -->
```

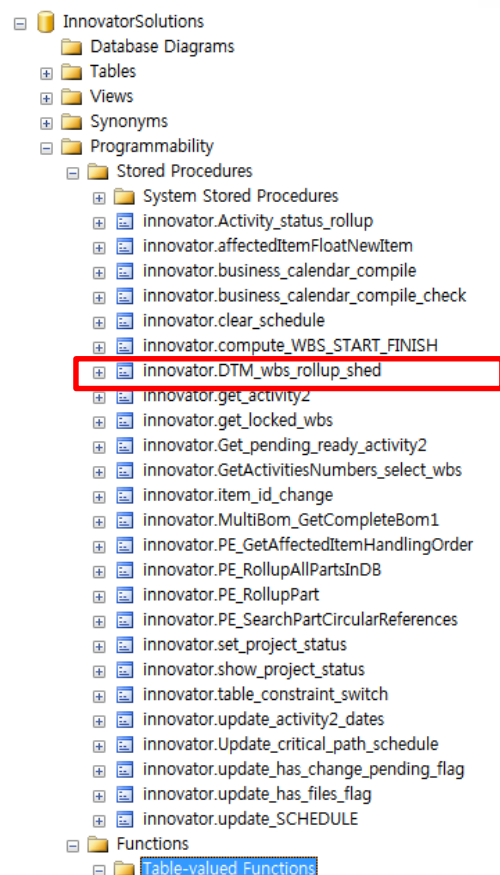
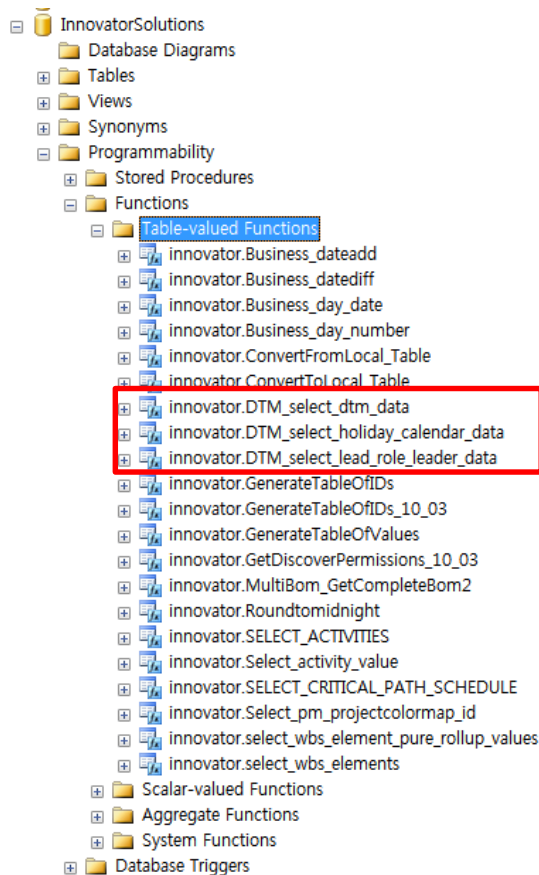
※ Check the setting value on DTM execution

- aras_con_info : Aras Innovator URL
- aras_user_info : Admin ID
- aras_password_info : Admin Password
- aras_install_info : Aras installation path
- dtm_con_info : DTM Connection path
- dtm_install_info : DTM installation path
- dtm_license_info : DTM License file path and file name

2. Check DTM Load Function (Database)



- ① Connect to Aras Database(Default: InnovatorSolutions) by DB tool such as SQL Server Management.
- ② Check that there exist function as “DTM_select_dtm_data”, “DTM_select_holiday_calendar_data”, “DTM_select_lead_role_leader_data” in Programmability > Functions > Table-valued Functions
Check that there exist procedure as “DTM_wbs_rollup_shed” in Programmability > Stored Procedures
- ④ In case there is no Function or Procedure, please execute SQL which is sql_backup folder of DTM installation folder (ex)C:¥Program Files (x86)¥ZIONEX¥DTM¥DTM)



DTM_select_dtm_data :
– DTM Grid data Load Function

DTM_select_holiday_calendar_data :
– Aras Holyday data DTM Load

DTM_select_lead_role_leader_data :
– Aras leader, lead roll list DTM Load

DTM_wbs_rollup_shed :
– WBS alignment Function for data save

3. Check IP address in case of Aras localhost installation



You may have trouble in connection between Aras and DTM function, in case of Aras localhost installation (ex>http://localhost/InnovatorServer). Aras connection requires IP address.

- ① Open {Aras Innovator}¥Innovator¥Client¥Solutions¥Project¥scripts¥ProjectTreeAdd.js with text editor
- ② Check DTM URL by showGanttChartView() Function, modify IP address to Local host IP address.

※IP address is recommended like below;

(Ex)http://localhost/InnovatorServer ->http://123.123.123.123/InnovatorServer

```
///
//else
if (projectItem.getAttribute("action") == "add" || projectItem.getAttribute("action") == "update")
{
    alert("Please Save first before launch DTM.");
}
else
{
    var url = "";

    //url = "http://dtm_url//DTMMain/DTMStart?project_no=" + projectId + "&project_name=" + encodeURIComponent(projectName) + "&mode=" + ganttMode + "&batch=0";
    //STANDARD DTM
    url = "http://localhost/InnovatorServer//DTMMain/DTMStart?project_id=" + projectId + "&login_id=" + userId + "&db_name=" + db + "&mode=" + ganttMode + "&batch=0";

    if(projectNumber == "")
    {
        if (is_modular == "1")
        {
            url += "&template=M";
        }
        else
        {
            url += "&template=Y";
        }
    }
}
// debugger;
var h = screen.height;
```



End of Document