

Upgrading

SmartPlant Instrumentation

FLUOR

SmartPlant ©

Implementation Team



FLUOR®

INTERGRAPH

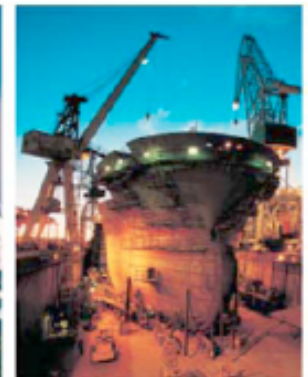
Why Upgrade SmartPlant Instrumentation



- ◆ Current Software Version Outdated (Over two years old)
- ◆ Maintain Intergraph Support
- ◆ Added Functionality
- ◆ Stay Competitive
- ◆ New Features
 - Service Packs
 - New Versions
- ◆ Bug Fixes

SmartPlant Instrumentation *New Features*

Process, Power & Marine



Before You Upgrade SPI



- ◆ Resolve any issues with SPI DBMS before upgrading
- ◆ **Read Special Instructions!**
 - Prerequisites for Upgrading
 - Upgrade Notes
- ◆ Review and Select Upgrade Service Pack
- ◆ Backup Database and User-Defined Views
- ◆ Prepare project setup per **Special Instructions**
- ◆ Suspend all user operations and lock DBMS
- ◆ Test Upgrade and run Upgrade Utilities

SPI Upgrade Utilities



◆ New upgrade Utility

◆ Download from Seibel Tools and Utilities for SPI

Used to check and resolve issues that exist with domains upgraded from v6 to v7 and from v7 to v2007

Checkupgraderesult.zip

FLUOR[®]

Utilities for SPI Domains Upgraded to v7 or to v2007

A. Introduction

The two utilities, **checkupgraderesult.exe** and **checkupgraderesult6.exe**, are used to check and resolve issues that exist with domains upgraded from v6 to v7 and from v7 to v2007 (v6), respectively.

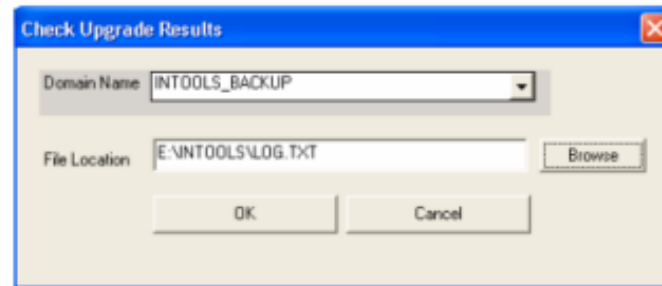
If the domain is upgraded to v7, follow the steps in sections B and D only.

If the domain is upgraded to v2007, follow the steps in section C only D only. In this case, you should skip section B, since the second utility checks the status of both upgrades.

B. Running the Utility for Domains Upgraded from v6 to v7

This procedure checks the database for the status of the upgrade from v6 to v7.

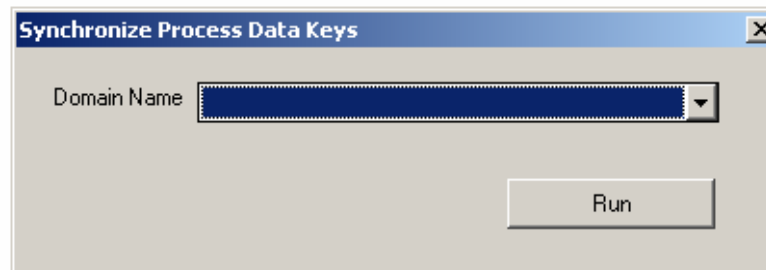
1. Save the utility **checkupgraderesult.exe** in the SPI home directory
2. Double-click **checkupgraderesult.exe**
3. Select the Domain name
4. Define a log file name and location for the results
5. Click OK
6. Go to section D below "**Reviewing the Results**"



SPI Upgrade Utilities

◆ Utility to Update Process Data Tables

- This utility should be run on all SPI domains, after upgrading to SPI v2007, in order to avoid problems with the Process Data module.
- Download the “**UtilityUpd.zip**” file from Siebel Tools and Utilities for SmartPlant Instrumentation



After You Upgrade SPI

- ◆ Rebuild Default Views in Domains (Admin Module)
- ◆ Rebuild Archived Revisions (archived_rev_update.exe)
- ◆ Regenerate Spec Forms (That Do Not Open)
- ◆ Review Work Processes for New Functionality
- ◆ Train Users on New Features and Functions
- ◆ Update Knowledge Base and Documentation
- ◆ Clean-Up or Remove Old Version Information
- ◆ Upgrade Other SmartPlant Instrumentation Programs and Utilities (ESL, IEE, DDP, API, SAP)



Known Issues with Upgrades

◆ Version to Version Upgrades

– Version 6 to 7

- Operating Owners should de-allocate entities before upgrade
- Users must rebuild the I/O cards and Terminations to match new hierarchy
- Users must create Virtual Fieldbus Tags for devices on segments

– Version 7 to 2007

- Oracle Character Set must be set to AL23UTF8 in the DBMS

◆ Service Packs

- In Service Pack 08.00.01.03 there were 10 Outstanding TR's associated with Upgrades



Known Issues with Upgrades

◆ **Service Pack 08.00.04.08**

◆ **General**

– **TR-62985**

Problem: When upgrading default I/O cards, the software cannot tell whether the I/O card needs to appear in Version 7.0 is an I/O card or I/O termination card. Therefore, all default I/O cards that existed prior to Version 7.0 appear in Version 7.0 as reference I/O cards.

– Workaround: Contact Intergraph Support to convert the required reference I/O cards to I/O termination cards.

– **TR-75206**

Problem: The software displays the 'Domain upgrade successfully completed' message even if the domain upgrade process fails to complete.

– Workaround: Not available

◆ **SQL Server**

– **TR-61693**

Problem: On SQL Server, when the System Administrator runs the Rebuild Stored Procedures and Triggers options, rebuilding audit trail triggers can take a significant time.

– Workaround: Not available

◆ **Sybase Adaptive Server Anywhere**

– **TR-50866**

Problem: Upgrade of an Operating owner domain in Sybase Adaptive Server Anywhere takes a significant time.

– Workaround: Not available

Open Forum on Upgrading SPI



SmartPlant[®]
Instrumentation

FLUOR[®]

INTERGRAPH