

## CORE 8 Service Pack 3

8 January 2012

On 6 January, several customers noted a variety of error conditions when connecting to projects hosted on a CORE Server. Operations that worked the day before – creating a folder, exporting a project, and in some cases even logging into the server – resulted in errors. In diagnosing the problems, Vitech uncovered an underlying problem in the Gemstone object-oriented database which serves as the underlying repository for CORE Server. Reminiscent of design decisions that caused problems for many applications in the year 2000, Gemstone implemented a specific method as the number of seconds elapsed since 1 January 1995. On 6 January 2012, this number became so large that the underlying number type had to change to accommodate it. This broke data type constraints that Gemstone had in place on queues and created cascading issues wherever queues were used.

Service pack 3 corrects the underlying Gemstone issue. We have explicitly modified the implementation to avoid this issue in the future. We have consulted Gemstone resources, performed extensive code reviews around the issue, and completed deployment test suites in an effort to ensure we deployed not only a quick correction but one free from unintended consequences.

We apologize for the inconvenience that this issue may have caused you – either in the disruption of collaborative projects on Friday, 6 January or in the required deployment of this service pack to correct the underlying issue. We have packaged the changes as a full service pack in order to ensure you gain the greatest value from the deployment effort, rather than requiring you to deploy CORE 8 SP2 and a separate change package. If you have any questions regarding this change or if we can be of any service, please do not hesitate to contact us via phone (+1 540.951.3999), email ([support@vitechcorp.com](mailto:support@vitechcorp.com)), or our online community ([community.vitechcorp.com](http://community.vitechcorp.com)).

This service pack is cumulative and includes all changes released in service packs 1 and 2.

## Description of Changes Included in Service Pack 2

Vitech's standard process and timeline is to release the initial service pack 30 days after product release. Subsequent service packs are released every 45 days thereafter to resolve errors identified and add minor capability enhancements. This schedule for this service pack has been accelerated so that our clients have access to the changes prior to their holidays. The next service pack is scheduled to release on 15 February 2012. In the interim, some special "goodies" will be shared via the online community at [community.vitechcorp.com](http://community.vitechcorp.com).

Reference	Description	Resolution / Notes
281 – Version Information in Non-Versioned Project	If you export changes from a project that has versioning enabled and import that change file into a project that does not have versioning enabled, the versions from the change file will improperly be included on the elements.	Install service pack 2. The version information is cleared from attributes that are not currently versioned upon import.
280 – Export Element Rename in University Change File	Exporting work in progress with a rename element command from the University Edition causes an error.	Install service pack 2.
277 – Large Local User Definition Files (ACFs)	If you have a project open, open the user preferences dialog, and then change the default icon template for a diagram, the local ACF file grows dramatically. This can lead to stack overflow errors (which can then be closed allowing the user to proceed) when changing the user preferences.	Install service pack 2.
276 – DoDAF 2.0 Scripts Updated	The AV-1, OV-6a, StdV-1-2, SV-10a, and Svc-10a have been updated to use the CORE 8 DoDAF schema. See DoDAF 2.0 Readme file for details.	Install service pack 2.
275 – DoDAF 2.0 OV-5b Report Corrected	The DODAF 2.0 OV-5b report had an errant variable that caused an error when the script was run.	Install service pack 2.
274 – Aborting Account Synchronization with Server	When logging into a CORE Server, if you select the option to synchronize remote accounts, the progress dialog includes a cancel button. Pressing the cancel button cancels the synchronization in mid process, potentially resulting in a corrupted local account.	Install service pack 2. In addition to removing the cancel button, the progress indicator has been changed to a progress gauge so that you can see the current status. If you have encountered this error and are in an error state, delete the local ACF files and re-synch after installing SP2.
273 – Current Value Improperly Set on Import of Versioned Attributes with Initial Values	If an attribute has been defined to have both an initial value and is versioned, the current value is not properly set when a project is imported. When an element is created during the import process, the attribute is set to the specified initial value and a corresponding version created. When the versions are subsequently loaded from the imported file, they are older than the value assigned during element creation.	Install service pack 2. The import behavior has been corrected so that the initial value is only set if, after the element is imported, the attribute value remains undefined.

Reference	Description	Resolution / Notes
271 – Cannot Import Accented Element Name into CORE Server	When logged into a remote repository, if you try to import an element with an accented character such as “ó”, CORE reports the conflict “hex digit expected, but not found” and aborts the import at that point. The file can be imported to a local repository without error.	Install service pack 2.
270 – Incorrect Return Value for New Folder Scripting Construct	When connected to a project on a CORE Server, using the New Folder construct in the CORE scripting language to programmatically create a new folder returns the project instead of the new folder. The folder is properly created, but the return value is not the folder as specified in the documentation. Note that when running a script against a project in the local repository, the new folder is returned as documented.	Install service pack 2.
269 – Entry of Float Values	If your regional Windows settings specify a decimal separator for floats other than a period, CORE notifies you that the separator is invalid when you attempt to type a float value in an attribute field. A period can be used, but the decimal separator specified in the regional Windows settings is rejected.	Install service pack 2.
268 – Import/Export of Number Spec Attributes	If your regional Windows settings specify a decimal separator for floats other than a period, number spec attributes (such as Function durations) that use float parameters are not imported correctly. Specifically, the value will be imported up to the separator, but any values after the decimal separator will not be loaded (“1,2” would be loaded as “1,0” in a region where the comma is used as a separator). This issue is only present in number spec attributes and does not affect float attributes.	Install service pack 2.
260 – IDEF0 Output Arrow Fails to Connect to Boundary Label	On an IDEF0 diagram, if an item is both output from a function on the diagram and the child of an output boundary label (the child of an output of the parent function), the item arrow is not properly connected to the boundary label. This is most evident if the item is an input or trigger for another function on the diagram.	Install service pack 2.

## Description of Changes Included in Service Pack 1

In addition to the specific problem resolutions listed in the table below, service pack 1 delivers one notable enhancement strongly requested by university instructors who attended the Insight 2011 User Group event. To support the growing number of capstone projects and team projects in the classroom, the University Edition now includes support for a publish-change-merge cycle. This follows the same process as commercial CORE users apply when not connected to CORE Server for live collaboration.

The team collaboration changes introduced in the University Edition service pack include:

- The ability to rename the user account so that changes are attributable to a specific team member. The Rename User command has been added to the Tools menu in the University Edition for easy access.
- The ability to select from four export options:
  - Project Backup – A full backup file of your project. If you are working on an individual effort, this is the correct export option.
  - Project Baseline – A full export of your project and which erases the merge history upon import so that changes are automatically tracked for integration. This is the first step in the team process and the proper export format after every merge.
  - Work in Progress – A working export of the project baseline with your current changes. Students use this format throughout the update cycle until sending a changes file to your project administrator.
  - Project Database Changes – An export including only the changes you made since merge history was last erased. At the end of an update cycle, this is the export option used to send your changes back to the project administrator.

A full description of the team merge process can be found in the Collaborating with CORE help topic available in the CORE online help.

Reference	Description	Resolution / Notes
Enhancement – License Web Form	The embedded licensing utility has been revised to automatically pass the CORE version number to the Vitech website to help guide the license request process.	Install service pack 1.
267 – DoDAF Report Typo	If you run a DoDAF report that stops with an error, the prompt title contains a misspelling – “Fatel Error” instead of “Fatal Error”.	Install service pack 1.
266 – Errant Allocation by Model Assistant	The “auto-allocate on decomposition” rule on the Model Assistant incorrectly adds the allocated to relationship for functions that are already allocated to another component. If allocation already exists for a function, the Model Assistant should not attempt to allocate the function when it is added to a function’s decomposition.	Install service pack 1.
265 – Resource Amount Format in COREsim Transcript	Resource amounts are not written to the COREsim transcript in a language neutral format. As a result, if the Windows regional settings for floats use a comma as the decimal separator, the resulting transcript cannot be properly parsed by programs such as Microsoft Excel.	Install service pack 1.

Reference	Description	Resolution / Notes
264 – Diagram Shape Import/Export	If a given CORE diagram includes more than one diagram shape, only the first diagram shape is maintained on project export and import. This same error can affect diagram notes but does not affect independent graphics inserted on diagrams.	Install service pack 1.
263 – Dialog Appearance with Large Windows Fonts	If your Windows environment is configured to use large fonts, certain CORE windows and regions do not size correctly. Note that this is independent of the default font specified in the CORE user preferences. This is also true by default in certain non-English environments (specifically Korean).	Install service pack 1. Four specific windows have been modified (login dialog, about dialog, university registration dialog, and the tip of the day pane).
262 – Hiding Branches on Activity Diagram Parallel Construct	When using an activity diagram, if you hide a branch on a parallel construct and then switch the display mode to hidden, the entire diagram disappears. The diagram does not redraw until you change the display mode back to standard or marked.	Install service pack 1.
261 – Terminology on Requirements Diagram Constructs Palette	The constructs tab on the requirements diagram palette uses CORE class terminology rather than the language of the SysML diagram. In place of “Components” and “Functions”, the palette should reference “Blocks” and “Activities”.	Install service pack 1. In introducing the diagram palette – and specifically the constructs tab – the intent is to use the native terminology of the diagram to lower the barrier of entry to MBSE.
259 – Korean Support in Element Table	The element and diagram tables do not properly support the Korean language in all fields. Hangul characters display properly in name fields but are garbled in description fields.	Install service pack 1.
257 – Find Perspective Error	When using the Find Perspective command in the project explorer, you receive a “selectFacility: not understood” error if you search for a perspective that exists.	Install service pack 1.
256 – Find Perspective Dialog Terminology Issue	When using the Find Perspective command in the project explorer, if you search for a perspective that does not exist, the text in the error message is wrong. The dialog reports “Phase Not Found” rather than “Perspective Not Found”.	Install service pack 1.
255 – Baseline Schema Objects Attributed to Administrator	In the new 8.0 versions of the baseline schemas, some of the schema attributes are shown as created by “Administrator” instead of “Vitech Corporation”. This makes it more difficult to identify customer-created schema extensions. This applies to both the base and DoDAF schemas.	Install service pack 1. This will not affect existing projects but will affect all new projects. To affect an existing project, simply export the project, delete the project from CORE, and reimport to force project creation.
253 – Error When Names Conflict Using Item Constructs on EFFBD Palette	When using the construct tab on the EFFBD diagram palette, the New Input, New Trigger, and New Output constructs result in an error if you enter an item name that already exists. Instead, this should display a standard CORE prompt that the item already exists.	Install service pack 1.
251 – Target List Fails to Respond on Property Sheet	In an element property sheet, the target list fails to update the first time you select a new relation from the list. All subsequent selections work correctly.	Install service pack 1.

Reference	Description	Resolution / Notes
250 – Relation Selection not Maintained on Property Sheet	When using the element browser view on the project explorer, CORE does not maintain the selected relation in the element property sheet. Instead, when you select a new element from the element list, the relation selection resets to the new “All Relationships” entry rather than maintaining the previous selected relation.	Install service pack 1.
248 – Permissions Issue with Elements Created by CSV Import	When using the CSV parser report, the resulting element permissions do not appear to work correctly. If the project is using element level permissions and a user or group has been assigned read permission, the user or group has the proper level of access (they can see the attributes and relationships via the property sheet, etc.) However, the element list shows “Insufficient privileges to view this element” rather than showing the name.	Install service pack 1. The initial permissions for elements created by the CSV parser are correct. However, the indexing mechanism used for the element list pane is not updated correctly. Installing the service pack addresses all future imports. To correct existing index issues, you must export and re-import your project.
247 – Failure to Resolve Path on ReferenceSpec Attribute	Using reports, it is possible to set CORE attribute values. However, if you using the scripting capabilities to set a referenceSpec attribute (an external reference), the value is set as an absolute reference. Instead, the value should automatically resolve to the base path specified for the project so that a relative reference is established.	Install service pack 1.
246 – Login Error Message when Trying to Log into Server without CORE Server Installed	If you attempt to log into a server machine that does not have CORE Server installed, you receive an error message stating “Invalid argument #1. Expected #ushort” rather than a prompt listing reasons why you may not be able to connect to the specified machine.	Install service pack 1.
245 – Intermittent Drag-Drop Error using Construct Palette	When using the new drag-drop capability to edit diagrams, you can occasionally receive “initializeClipboardFor: not understood” errors. You can proceed from the error with no harm, but the error is disruptive to the work flow. This is particularly true when using constructs on the FFBD, EFFBD, and activity diagram.	Install service pack 1.
244 – Spider Diagram Fails with Target Class Specification	Attempting to open a spider diagram using a hierarchy definition that includes target classes as well as relations results in an error. Spider diagrams can only be opened using hierarchy definitions that do not include target class specifications.	Install service pack 1.
243 – Error Using Delete Key to Delete Row in Document Parser Table	The document parser generates an intermediate table allowing you to review the parsing results before entering them into the database. You can delete individual rows from this table using the pop-up menu. However, if you select one or more rows and use the delete key, you receive warning messages (“Value Specified is not a possible value for this enumeration”) rather than the rows simply being deleted.	Install service pack 1. In addition, the Delete Element command has been added to the parser menu to simplify access to this command.

Reference	Description	Resolution / Notes
242 – Cannot Save COREsim Timeline as SVG	When working with a simulation timeline, you cannot save the timeline using the SVG graphic format. All other formats (JPG, PNG, BMP, and WMF) work properly.	Install service pack 1.
241 – Perspective Descriptions Contain Typos	Two perspective descriptions contain typographical errors. In the Full Detail perspective description, the last word should be “model” instead of “mode”. In the System Context perspective description, there should be only 1 period at the end of the paragraph.	Install service pack 1. This will not affect existing projects but will affect all new projects.
240 – Target-Based Filters Inoperable after Export/Import	When exporting and importing filter definitions (which are included in a standard export file), filters that rely upon targets appear to be corrupted. For example, using the Unverified Requirements filter which checks the size of a target set for a requirement results in a “schemaManager not understood” error. Using a filter that simply uses attributes works fine.	Install service pack 1. Installing the service pack addresses all future imports. To correct existing filter issues, you must export and re-import your project.
238 – Mouse Wheel Support in COREsim Transcript	Using the scroll wheel on the mouse does not scroll the simulation transcript window.	Install service pack 1.