

## CORE 9 Service Pack 2

19 August 2013

As with Service Pack 1, Service Pack 2 includes several capability enhancements. Of particular note are a new Export to Word<sup>i</sup> option and a new tabular output for diagnostic results. The Export to Word command located alongside the Export to DOORS<sup>ii</sup> and Export to CSV commands on the File menu allows you to generate richly formatted tables directly in Microsoft Word without any scripting whatsoever. This capability leverages the same table definitions used for CSV and DOORS export so that you can define the output you wish and quickly reuse it for data presentation or data exchange. The new Diagnostic Table report is a compact matrix presentation of the completeness, consistency, and custom issues in a selected package, across a set of classes, or in the entire database. We have included three other minor capability enhancements as well. As noted with CORE 9 Service Pack 1, there is an added emphasis on incorporating minor (and sometimes not-so-minor) capability enhancements throughout the service pack cycle. Many of these are driven by user suggestion, so we hope you will share your ideas with us at [support@vitechcorp.com](mailto:support@vitechcorp.com) or on the community site at [community.vitechcorp.com](http://community.vitechcorp.com).

In addition to these enhancements, Service Pack 2 corrects a number of issues. Many of these issues are particularly subtle and may not impact your team. As teams have begun to leverage the new cross-project capability, we have identified and resolved five issues, particularly centered around cross-project relationships and the various block diagrams. We have also made several revisions to streamline the use of cross-project relationships. Given these changes, we recommend that all projects apply Service Pack 2.

This service pack is cumulative and includes all changes released in Service Pack 1.

Reference	Description	Resolution / Notes
Enhancement – Export to Word	Alongside the File menu commands Export to CSV and Export to DOORS, a new command has been added to export your data directly to Microsoft Word. Using a 3-step wizard approach, you specify the desired data (a package, folder, or the entire project), the table you want to build, and options (paper size, orientation, and formatting). CORE then generates the corresponding table in Word. This is a great way to generate everything from simple lists of project risks to verification cross reference matrices.	Install Service Pack 2. The Export to Word capability uses the same table definitions used by the other export commands allowing you to define the table once and reuse it for multiple formats. There is an additional option to generating tables via report. For more details, see the help file.
Enhancement – New Diagnostic Table Report	To complement the existing Diagnostic Results report, a new tabular report has been incorporated in Service Pack 2. The Diagnostic Results report generates a list of diagnostic errors grouped by element. The new Diagnostic Table report generates a matrix of possible errors and marks which errors are present for which elements. You have the option of including or excluding consistency and custom check results as well as the option to include a key.	Install Service Pack 2. Both report formats have high value. As you become more familiar with the embedded diagnostics, the tabular report is a very compact report that also helps identify frequent issues.

Reference	Description	Resolution / Notes
Enhancement – Jump to Element	Often times when navigating through a system design via lists and diagrams, it's desirable to keep your current explorer at its current element selection and use a new project explorer to pursue a line of thought. To simplify this process, a new Jump to Element command has been added to the pop-up menu for element lists and diagrams. When selecting the Jump to Element item, you will be presented with a list of available project explorers as well as the option to open a new explorer. This allows you to quickly explore without losing your original place in the model.	Install Service Pack 2. This capability is particularly useful for cross-project situations where you wish to seamlessly navigate across project boundaries.
Enhancement – Exporting Project Preferences	A new export option has been added to enable exporting only the project preferences from a project. This simplifies the process of sharing preferences across projects. In addition, this option is shown in the standard export dialog to highlight the inclusion of the project preferences in the existing export options.	Install Service Pack 2. Project preferences are also included in repository backup, project backup, and project template exports.
Enhancement – Opening Related Elements in Other Projects	When using cross-project relationships, the attributes of the related element from another project are cached to provide context. You can always double-click these elements to see a greyed-out property sheet. With Service Pack 2, if the related project is open, you may open any view on the related element just the same as if you were operating in the source element. This streamlines operation when working across project boundaries.	Install Service Pack 2. If you attempt to open a view other than the property sheet for an element in a closed project, you will be prompted that the project must first be opened.
Enhancement – Notification on Loss of Permissions during Import	When importing a database file, if the file is a repository backup, project backup, or project baseline, the project permissions specified in the imported file will be applied to ensure access control is maintained. If the user performing the import does not have access to an imported project at the end of the import, a notification is now written to the conflict file to avoid any confusion.	Install Service Pack 2. For access control reasons, the notification does not report the name of the affected project (since the user does not have read permission to the project).
468 – Edit Connections Command Returns an Error	When working in a remote project, using the Edit Connections command on a block diagram results in an error if the node has no connections. This error does not occur when working on a local project.	Install Service Pack 2. Alternately, use the diagram palette and drag-drop to quickly create a connection and add nodes to the diagram.
467 – Importing to a Remote Project May Overwrite File	In some cases, at the conclusion of importing a XML data file to a remote project, the source file is replaced by a blank file (or simply appears to be replaced).	Install Service Pack 2.
466 – Sending Email Attachments via Reporting	When using the Send Mail Message in reporting, message attachments specified via parameter work correctly. However, if attachments are specified as an argument, the attachment list is ignored.	Install Service Pack 2.
465 – Nil Initial Value for Collections	If you define an attribute of type collection and then set an empty initial value, exporting and importing the schema extension results in a “select: not understood” error. The error does not occur if you do not specify an initial value or specify an initial value with contents.	Install Service Pack 2.

Reference	Description	Resolution / Notes
464 – Label on Block Diagrams Stacked in Upper-Left of Diagram	When exported from a remote project, the diagram layout for block diagrams appears to lose the positioning, color, and other settings for the line labels. This only occurs upon export from a remote project.	Install Service Pack 2. This correction prevents any future issues on export while also ensuring that pre-SP2 files are loaded correctly.
463 – Items with Fields Result in COREsim Error	If the simulator encounters an item where the fields attribute has been set, the user receives a “+ not understood” error. In CORE 9, the simulator was extended to leverage the fields attribute to enrich the simulation. An error was introduced in this change.	Install Service Pack 2.
462 – Double-Clicking on an Exit Construct to Open the Exit	On an activity diagram or EFFD, an exit construct is associated with an element in the Exit class. Double-clicking this node does not open the property sheet for the corresponding Exit unlike double-clicking on an Iterate which opens the property sheet for the corresponding domain set.	Install Service Pack 2.
461 – ViewRegistry Error if Related Project is Closed	With the introduction of cross-project relationships in CORE 9, a Related Projects item was added to the navigation list on the project explorer. Clicking this allows you to quickly see what projects you are related to and which elements have these cross-project connections. Attempting to access this when the related project is closed results in a “ViewRegistry does not exist” error.	Install Service Pack 2.
460 – Cross-Project Link Incorrectly Shown as Loop	If you have a physical block diagram where a component in that project uses a link to connect to a component in another project, that link may be incorrectly shown as looping back to the component. Not all links to components in other projects exhibit this behavior.	Install Service Pack 2. The underlying model is correct, but the representation is incorrectly drawn in some circumstances under SP1.
459 – Ports on IBDs may Overlap Text	If ports are shown on the internal block diagram (and they are enabled by default), it’s possible for a port indicator to overlap with icon text. This is particularly true for the role name at the top of the icon.	Install Service Pack 2. When the display of ports is toggled on, the internal margin for the icon is increased to avoid any overlap.
458 – Maximum Targets Limitation Exceeded via Cross-Project	When using cross-project relationships, it is possible to create a situation where the total number of relationships for an element exceeds any limits specified in the project schema. For example, the connects to relationship for a Link is limited to two targets. When using cross-project relationships, it is possible to have more than two targets by using multiple projects.	Install Service Pack 2.
457 – ViewRegistry Error on Target and Insertion Window	If your last selection in a target window or insertion window was from a project that is now closed, you will receive a “ViewRegistry does not exist” error when you next open a target window or element insertion window. By default, CORE maintains the last target class selection and attempts to reapply it. This results in an error if the source project is closed.	Install Service Pack 2.
456 – Audit Log on Remote Projects	There are instances when maintaining the audit log on a remote project causes “concat: not understood” error.	Install Service Pack 2.

Reference	Description	Resolution / Notes
455 – Cross-Project Component Insertion may Generate Error	If you attempt to insert a component with existing links onto a physical block diagram in a different project, you may receive an “object not understood” error.	Install Service Pack 2.
454 – Registration Dialog Error under Hangul Operating System	If you are running the Korean version of Microsoft Windows, when you log in and are prompted with the user registration dialog, you will receive an “object not understood” error.	Install Service Pack 2.
453 – Exporting Users and Groups from server	Trying to export users and groups from a CORE Server fails with error.	Install Service Pack 2.
451 – Database Updates embedded in Variable Assignment Script Construct may not Occur	If you are writing an automation script and embed an operation to modify a database value in a Variable Assignment construct and run this script on a remote project, the update will not be saved. For example, attempting to modify an attribute value in this way will not update the database. However, if you use the Database Update constructs, all changes are properly stored.	Install Service Pack 2.
450 – Project Registry Entries not Stored for Remote Projects	CORE 9 introduced a new project registry that is accessible via script. This enables advanced users to read and write project-based values enabling a wide range of utility reports and automation. These values are not properly stored when using projects on a remote server and are lost when the user logs out. They are stored for local projects.	Install Service Pack 2. Those interested in examples of how the project registry is used can reference the revised Assign Documentation PUIDs script in CORE 9.
448 – Users can be Notified of a Service Pack after Installation	With the release of CORE 9, the software will now prompt you with a reminder when the date for a planned service pack has passed. If you install the service pack before the reminder, you are still prompted.	Install Service Pack 2. If you are prompted, once you check for a service pack, the reminder will be silenced until the next service pack date. Given the additive value of service packs, we recommend you keep these reminders enabled.
447 – Attributes Marked as “Lock when Set” should not be Duplicated	When duplicating an element, CORE duplicates all attribute values and prompts the user as to whether they wish to duplicate the relationships. If an attribute is marked to be locked when the value is set, the value cannot be changed on the duplicate. For example, a document PUID – intended to be unique – can be duplicated and locked. Attributes marked to be locked when set are no longer duplicated.	Install Service Pack 2. If you have attributes that are locked, they can be unlocked by a project administrator via script. If you wish to check for duplicate PUIDs, the included Check for Duplicate PUIDs will generate the desired report.
444 – Importing Outdated ScriptSpec	Importing an outdated scriptSpec as part of a project model can result in the error “scriptID: not understood.”	Install Service Pack 2.

Reference	Description	Resolution / Notes
441 – Random Numbers in ScriptSpecs are Constant	When running a scriptSpec in a remote project, if you use the Random Number construct to generate a random value in a script, the value returned will remain constant. This only occurs when running on a CORE Server and does not affect the values generated by numberSpecs used in COREsim.	Install Service Pack 2. This construct provides easy access to the 19 random number distributions supported by CORE. If you are leveraging this scripting construct and using CORE Server, you must install this service pack.
435 – Using Connect via with Cross-Project Relationships	When working with the various block diagrams, one of the most convenient ways to connect two nodes with a connector is to select both nodes and use the Connect via command. If you use this command and select a connecting element from a different project, CORE may incorrectly report that the relationship would exceed the maximum number of targets for the connecting element.	Install Service Pack 2. Alternatively, you may use any of the other methods such as drag-drop to connect the connecting element to the nodes.
434 – Cross-Project Property Sheet Improperly Enabled	If you are leveraging cross-project relationships to use a domain set from one project to control the iteration or replication in another project, double-clicking on the iterate / replicate construct opens a property sheet on the domain set. Since the domain set resides in another project, the attribute fields should be greyed out.	Install Service Pack 2. With new ability to open cross-project views if the project is open, the property sheet will only be greyed out if the corresponding project is closed.
410 – Delete Button Graphics Missing in Table Export	When you are using the Export to CSV or Export to DOORS commands, you have the opportunity to load an existing table definition rather than creating one on-the-fly. If you load a table and the screen repaints, the red X bitmaps on the delete buttons are missing until you scroll the list of table rows.	Install Service Pack 2.
185 – Tabbing in Table View May Show Incorrect Value	If you are working in the element table view, change a value that impacts the sort order, and tab out of the cell, the value shown in the cell you tab into may be incorrect. For example, if you are sorting by number, change an element number, and tab out resulting in the rows resorting, the value highlighted will correspond to the old row as opposed to the new row. If you subsequently tab out of the new cell, the value is correct. The highlighted value shown was simply incorrect.	Install Service Pack 2.
130 – Initial Value Button Active but Appears Disabled	When you are extending the schema and defining a new attribute or editing an existing one, the initial value pane allows you to specify a default value for this attribute. If the attribute type is set to NumberSpec, the initial value pane is active, but the bitmap on the button appears to be greyed out.	Install Service Pack 2.

## Description of Changes Included in Service Pack 1

This first service pack resolves a few lower priority items identified during the final stages of the CORE 9 pre-release activities as well as those errors encountered in the first month of release. In addition, Service Pack 1 includes six minor enhancements: two extending and leveraging the new diagnostics framework, one increasing the visibility of cross-project relationships, one to report (or auto-create) implied connections based upon the decomposition hierarchy, one expanding the library of pre-defined tables for quick output, and one custom diagnostic report for projects using PUIDs.

Reference	Description	Resolution / Notes
Enhancement – Extending the Consistency Checks	In adopting a model-centric approach, value comes from capturing the model to share and communicate with others, but the greatest value comes from exercising and exploiting the model. To further leverage the diagnostic framework embedded in CORE 9, Service Pack 1 includes five additional consistency checks relating to item transfers across links, capability mappings, and the subject for use cases. In addition, 12 new consistency checks have been added in the areas of link decomposition, interface decomposition, behavioral allocation, starting states, and change request numbering.	Install Service Pack 1. Because the consistency checks leverage the scripting framework to complement the embedded completeness checks, you can extend the checks yourself. If there are checks you believe would be valuable, please let us know by sending us an email at <a href="mailto:support@vitechcorp.com">support@vitechcorp.com</a> or suggesting them at <a href="http://community.vitechcorp.com">community.vitechcorp.com</a> .
Enhancement – Reporting the Diagnostic Results	Within CORE, you can browse the diagnostic results for a given element by looking at the diagnostics tab on the property sheet. Within a folder or a package, you can use the Diagnostic Errors filter to see which elements have completeness or consistency issues. With Service Pack 1, we have added a simple Diagnostic Results Report available to output all elements with diagnostic errors along with the specific issues associated with each element.	Install Service Pack 1. Additional report formats to package the diagnostic results will be included in future service packs to deliver additional value.
Enhancement – Marking Cross-Project Nodes on Diagrams	With the introduction of cross-project relationships in CORE 9, the boundaries between projects can be largely transparent, if desired. With diagrams possibly representing elements from multiple projects on a single view, CORE 9 now places a small box in the lower-left corner of elements that reside in a different project than the root project for the diagram. This provides the user a subtle indicator that is intended to be informative without distracting or creating confusion for a greater audience.	Install Service Pack 1.

Reference	Description	Resolution / Notes
Enhancement – Identifying (and Creating) Implied Connections	<p>In the v90 variants of the schema, the connection classes (Interface, Needline, and Link) are decomposable. This gives your project the ability to aggregate and decompose in parallel with your physical hierarchy. As project teams migrate to the v90 schema, you will see that the connected thru / joined thru relationships (which represented a fixed, automated decomposition) are no longer computed. This means that connections established at a lower-level of your decomposition are not automatically reflected at the top-most layer of your model.</p> <p>For those teams who would like to report and even auto-generate implied connections at higher levels of your model based upon lower-level connections, a new Identify Implied Connections report has been added to the Utility folder. This report will generate a listing of all implied connections and will optionally create them for you resulting in a computed decomposition hierarchy of your orphaned Interfaces, Needlines, and Links.</p>	Install Service Pack 1. When leveraging this utility report, it is highly recommended that you first run the report without auto-creating the connections to assess the impact.
Enhancement – Three Additional Default Table Definitions	<p>The export wizard introduced in CORE 9 makes it easy to quickly define and generate custom tables with any degree of complexity to represent any data you wish in a tabular format. While the ability to define custom tables is key to meeting your specific needs, there are many tables that are largely universal. Over time, Vitech expects to incorporate additional default tables for quick access. Three new tables are included in Service Pack 1:</p> <ul style="list-style-type: none"> <li>• Requirements – a basic requirements listing showing requirements in hierarchical order with descriptions and parent requirements;</li> <li>• Requirements Traceability – a summary table showing requirements in hierarchical order with descriptions, traceability to the model, and corresponding verification requirements; and</li> <li>• Requirements Flow Down – a listing of all requirements including the requirement description, its children, the elements it traces to, and the description of the corresponding elements.</li> </ul>	<p>Install Service Pack 1 to leverage these new tables. Alternatively, you can simply define and save these tables (or others) yourself.</p> <p>If you have table definitions you believe would be valuable to the greater community of CORE users, we encourage you to share them with us at <a href="mailto:support@vitechcorp.com">support@vitechcorp.com</a> or directly with the community at <a href="http://community.vitechcorp.com">community.vitechcorp.com</a>.</p>
Enhancement – Reporting Duplicate PUIDs	<p>With CORE 9, all of the reports dealing with document PUIDs (project unique identifiers) were completely rewritten to streamline their use and leverage the new CORE framework that allows certain attributes to be locked against change once they are set. Service Pack 1 includes a new report (Check for Duplicate PUIDs) that outputs a simple document reflecting any duplicate identifiers in the project.</p>	Install Service Pack 1.
436 – Export local project when connected to a server	<p>If you are connected to a server you get an error when you attempt to export a local project.</p>	Install Service Pack 1. If you do not have Service Pack 1, logout of the server and login locally to export the project.

Reference	Description	Resolution / Notes
432 – N2 Items and Links Repeated when Using Cross-Project Relationships	If a cross-project relationship is shown on an N2 diagram, the connector is shown both as an internal and external connection. This is true for the traditional functional N2 diagram as well as the physical and interface variants.	Install Service Pack 1. If you do not have Service Pack 1 installed, toggling off the display of externals on the N2 will hide this issue.
431 – Handling User Registration when Logging into a CORE Server	With CORE 9, users are given the option to register with Vitech upon their first launch. From this dialog, you can choose to register, be reminded later, or skip registration altogether. These behaviors work properly when logging in to a local repository. However, if you log into a CORE Server, regardless of which option you select – register, defer, or skip – you are prompted to register again the next time you launch.	Install Service Pack 1.
430 – Maintaining the Last Spider Diagram Definition	CORE transparently maintains the default hierarchy definition to be used for spider diagrams on a per-class basis. When you open a spider diagram, this is the definition used to determine what relationships are shown. Though CORE maintains the information, it fails to export this as part of your user settings.	Install Service Pack 1.
429 – Error Exporting Diagram including a Diagram Information Block	CORE 9 introduced the diagram information block to display any combination of attributes and relationships on a diagram in a property-sheet style view. In inserting and manipulating this new construct, it is possible to have a diagram information block with a nil ID. When this occurs, a soft error is reported on export.	Install Service Pack 1. If you encounter this error before installing the service pack, you can choose to continue the export. This will exclude the specific diagram styling from the export, but no data will be lost.
428 – Error Opening an ER Diagram	If you attempt to open an ER diagram, you receive an “id not understood” error.	Install Service Pack 1.
427 – RTM Header using A4 paper	The RTM table header contained incorrect settings which caused an error when output using A4 paper.	Install Service Pack 1.
425 – SSS Formal Document error	When running the SSS a benign error appears in the transcript.	Install Service Pack 1. This error can be ignored.
424 – CORE Import Aborts if an Element ID Cannot be Resolved	If you are doing a full project import (as opposed to a changes file) and the file contains an ID for an element that does not exist and cannot be created, you receive a “structures not understood” error. In general, CORE will successfully create an element to correspond to the ID. However, if an element by that name already exists, the ID will be unresolved, and the error will occur.	Install Service Pack 1.
423 – Icon Template Separator Information Lost on Import	When using a separator on an icon template, the separator type (dot, dash, solid) is exported but not imported. The result is that all separators imported revert to solid lines.	Install Service Pack 1.
422 – Command to Access Conflict File Disabled for Server Imports	If you have an import on a server that ends with a conflict file, after you close the conflict file you should be able to open it again using a command in the Job Monitor. That command is grayed out.	Install Service Pack 1. Alternatively, the conflict file is stored on the server. You can navigate to it directly if you have access to the server file location.



Reference	Description	Resolution / Notes
421 – Diagram Frame Can Overlay Content on Interface and Physical N2	There are two circumstances under which the diagram frame on an interface or physical N2 diagram can overlap the diagram content. First, when using the grid representation, the top of the frame overlaps the top row of the grid. Second, if external connections are toggled off, the frame overlaps the bottom of the N2 diagram. Neither of these errors occur on the functional N2 diagram.	Install Service Pack 1.
420 – Element List Color Does Not Change when Filter Applied	In order to better highlight that an element list is filtered, CORE 9 introduced an option to change the background color of the element list when a filter is applied. If you select a filter from the drop-down at the top of the element list, the color changes corrected. If you apply a filter via the Edit Filter command as opposed to the filter drop-down, the element pane background color does not shift.	Install Service Pack 1.
419 – ViewRegistry Error when Closing a Project	In CORE 9, you can establish a cross-project relationship either via drag-drop or by selecting a different project from the project list at the bottom of every element selection list. When doing the latter, if you have selected a different project in the element listing on a palette and then close that project, you receive an error regarding the view registry for the project which was closed.	Install Service Pack 1. This error may result in additional error messages, but there are no negative side effects. The error is automatically cleaned up when you close and reopen CORE.
418 – Project Selection Drop Down Missing from Selection Window	The selection dialogs used when adding a domain set to an activity diagram / EFFBD and setting the subject of a use case diagram do not include the project drop down required to specify an element from another project.	Install Service Pack 1. Alternatively, the use case subject can be set by editing the describes relationship for the UseCase. Establishing a cross-project relationship for the domain set requires this change.
416 – Actor Positioned Outside Diagram Frame on Use Case Diagram	It is possible for an actor to be shown outside of the diagram frame on a use case diagram. This occasionally occurs for actors that have been automatically added to the diagram and not manually repositioned. As soon as you attempt to move the actor, it jumps within the diagram frame and is then properly positioned going forward.	Install Service Pack 1.

<sup>i</sup> Microsoft® Word® is a registered trademark held by Microsoft.

<sup>ii</sup> DOORS® is a registered trademark of IBM, and is in reference to IBM® Rational® DOORS®.