CORE 9 Service Pack 7

15 April 2014

Vitech follows a very steady service pack rhythm releasing the initial service pack 30 days after product launch with subsequent service packs every 45 days thereafter to resolve errors identified and add minor capability enhancements. This regular rhythm often results in service pack releases that address obscure or low impact issues. This is the case with Service Pack 7. Nine issues have been closed all of which are minor, if not obscure, and one enhancement streamlining the insertion of new parameters into text fields has been added.

If deploying service packs within your organization is difficult, you should review the issue descriptions below to see if they impact you before you install this service pack. If none of the issues are of interest, you may wish to bypass this service pack.

We will continue to incorporate capability enhancements throughout the service pack cycle. We hope you will share your ideas with us at support@vitechcorp.com or on the community site at community.vitechcorp.com.

This service pack is cumulative and includes all changes released in Service Packs 1, 2, 3, 4, 5, and 6.

Reference	Description	Resolution / Notes
Enhancement – Inserting Parameters in Text Fields	One of the benefits of the new parameter capability introduced in CORE 9 is the ability to extract and manage design parameters rather than treating them as raw text. These parameters can then be embedded in text fields such as descriptions so that as the parameter values are changed, the text fields automatically reflect the latest value. To insert a parameter in a text field, you can simply right-click in the field and use the Insert Parameter submenu. Previously, this submenu only included the parameters already created for the element. With this enhancement, you have direct access to all parameters than have been defined for the given element class as well as the ability to define a new parameter. This allows you to quickly create and insert the specific design parameters that are relevant to a given element.	Install Service Pack 7.
557 – Changing Parameter Type does not Clear Units	When working with parameters, only those of type float and integer support units. If you have a parameter that is originally of type float or integer and then change the type to any other parameter type, the units are not cleared when the parameter value is migrated. While the units are not shown on the parameters tab, they are shown as part of the parameter representation in any text field that references the parameter.	Install Service Pack 7.
556 – State Transition Commands Incorrectly Enabled	If an initial state (the dot) or exit state (the bull's eye) is selected on a state transition diagram, the commands for editing the entry conditions and exit conditions are incorrectly enabled. The commands display an appropriate error message when used, but they should be disabled since they are not applicable.	Install Service Pack 7.

Reference	Description	Resolution / Notes
555 – Incorrect Drag-Drop Highlighting on Block and State Diagrams	When dragging constructs off the palette, the drag-drop highlighting on the block diagrams and state transition diagrams sometimes implies that a drop action is valid when it is not. For example, dragging an event on top of a node on the state transition diagram highlights the node as a valid drop target. When dropping the event, nothing happens, but the highlighting is misleading.	Install Service Pack 7.
554 – Behavior Information Shown on State Transition Nodes	The state transition diagram includes special logic to display the behavior information (the entry, do, and exit functions) on the node. This information is only intended to be displayed if the selected icon template for a node is the State Transition Node (the default for the diagram). Instead, the information is shown regardless of the icon template in use.	Install Service Pack 7. The diagram option to toggle off the display of this behavior information does work as intended, and this service pack now limits the display to only occur when the special icon template is in use.
552 – Show Relationships Property not Transferred to Spider Diagram	When opening a spider diagram, the dialog that allows you to specify the relations and target classes to display on the diagram includes a checkbox to specify whether or not to display the relationship labels. This checkbox is ignored when the diagram is opened such that the relationship labels are shown or hidden based upon the project preferences. The issue is that both the project preferences for a spider diagram and the selected hierarchy definition included a setting to control whether or not the relationship label was to be displayed. The project preference has been removed so that the hierarchy diagram setting can be used.	Install Service Pack 7. The display of relationship labels can be toggled on or off once the diagram is opened. This correction simply ensures that the initial diagram state matches what was requested when opening the diagram.
551 – Missing Error Message when Loading Large Custom Dictionary	The maximum size of a custom spelling dictionary is 18000 entries. When adding words to a dictionary, if you exceed this limit, the error message describing this condition is blank rather than simply stating that the limit has been exceeded.	Install Service Pack 7.
550 – TableMaker report cell text cut off	Part way through outputting cells, the text is displayed too far to the left so it is cut off.	Install Service Pack 7.
549 – Schema Changes Exported from a Subordinate Database Causes an Error	If schema changes are exported as part of database changes, the set of properties for the schema changes are incomplete. When the resulting file is imported into the master project, the schema change cannot be properly loaded. This occurs if a schema change is made as part of a subordinate database (as part of a manual change cycle where project database changes are exported from a team environment without the benefit of a CORE Server). A best practice is to never make schema changes outside of a master project database. If this occurs a conflict message is given stating that the change could not be made.	Install Service Pack 7.

Reference	Description	Resolution / Notes
548 – Removing a Multi-Exit Function Results in an Error	When working with remote projects on a CORE Server, if you remove or delete a function on an EFFBD or Activity Diagram that has multiple exits, you receive an “Unhandled Gemstone Error.” The function is properly removed from the network structure but an error is reported on the screen update. Closing the error and manually refreshing the diagram (using the F5 key or Refresh Window command) updates the screen.	Install Service Pack 7.

Description of Changes Included in Service Pack 6

For the past several years, Vitech has followed a very steady service pack rhythm - the initial service pack 30 days after product launch with subsequent service packs released every 45 days thereafter to resolve errors identified and add minor capability enhancements. This regular rhythm can result in service pack releases that address obscure or low impact issues. This is the case with Service Pack 6. Two enhancements have developed based upon user suggestions. Five issues have been closed – four minor items and one notable but obscure issue regarding cross-project relationships.

If deploying service packs within your organization is difficult, you should review the issue descriptions below to see if they impact you before you install this service pack. If none of the issues are of interest, you may wish to bypass this service pack.

We will continue to incorporate capability enhancements throughout the service pack cycle. As noted, two of the items below were driven by user suggestion. Other suggestions have been captured for a future release. We hope you will share your ideas with us at support@vitechcorp.com or on the community site at community.vitechcorp.com.

This service pack is cumulative and includes all changes released in Service Packs 1, 2, 3, 4, and 5.

Reference	Description	Resolution / Notes
Enhancement – Creating Folders via CSV Import	The CSV file import includes the ability to specify element folders alongside attributes and relationships. Based upon a customer request, we have changed the default behavior to create folders when the folder does not exist. Previously, an error was simply recorded in the CSV file when this condition was encountered.	Install Service Pack 6.
Enhancement – Removing Size Limitation on Diagram Nodes	Previously, the maximum size of a diagram node was 500 pixels high or 500 pixels wide. This limitation which dates back to the early days of CORE has now been removed. When resizing individual diagram nodes, the node can be as large as the diagram.	Install Service Pack 6.
545 – Function and Component Consistency Checks	Five consistency rules (three dealing with consistency of items input to, output from, and triggered by relationships flowing up from the child function to the parent; two dealing with consistency of interfaces and links connecting components flowing up from the child component to the parent) have been revised. The initial implementation did not properly account for internal item flows and internal connections.	Install Service Pack 6.
544 – Set Attribute Command Incorrectly Enabled on Some Diagrams	On the FFBD, EFFBD, activity diagram and sequence diagram, the Set Attribute command is incorrectly enabled when a branch, select (OR), or parallel (AND) construct is selected. Executing the command results in a definition not understood error.	Install Service Pack 6.
541 – Orphaned Cross-Project Relationship Blocks Export	If a cross-project relationship is established and then orphaned such that the associated project is nil, attempting to export the project results in an incomplete export of your data.	Install Service Pack 6. Changes made in earlier service packs prevent this condition from occurring. If your project data is in this state, Service Pack 6 enables a clean export.

Reference	Description	Resolution / Notes
540 – Deletion of Multi-Exit Function During Simulation	If an active simulation is running and a multi-exit function is deleted, an object not in the collection error will result.	Install Service Pack 6.
371 – Importing Colors from CSV Files	If you import an element color specification (font, line, or fill) via CSV, the color changes to black.	Install Service Pack 6.

Description of Changes Included in Service Pack 5

In order to best serve our user community, Vitech releases the initial service pack 30 days after product launch with subsequent service packs released every 45 days thereafter to resolve errors identified and add minor capability enhancements. Sometimes, this results in a service pack that addresses relatively obscure or low impact issues. Such is the case for Service Pack 5. Five issues occur solely when disabling formatted text, an action only recommended when using Hangul, a language not natively supported in CORE's formatted text control. The remaining issues apply regardless of the language in which you work but are very specialized.

If deploying service packs within your organization is difficult, you should review the issue descriptions below to see if they impact you before you install this service pack. If none of the issues are of interest, you may wish to bypass this service pack.

Reference	Description	Resolution / Notes
Enhancement – Updated Reports	The following reports have been updated to take advantage of some of the newer capabilities like Project Explorer Prompt and parameters: Attribute History Report, Diagnostic Results, Diagnostic Table, Formal Documentation, Schema Definition, Structure Traversal, and TableMaker.	Install Service Pack 5.
534 – Renaming Elements via CSV Interface	If you use the Import from CSV capability to rename elements, you receive a "receiver is not a Boolean" error.	Install Service Pack 5.
531 – Applying String Comparison Filter to Package	When applying a filter to list all elements that include a specified string in an attribute, the filter works properly when applied to a folder but not when applied to a package. For example, when using the TBD/TBR filter to show all elements that include either "TBD" or "TBR" in the description, the filter works properly when the Component class is selected but returns no results when a package is selected.	Install Service Pack 5.
529 – Export of Project Registry Values from Server	When working with remote projects on a CORE Server, if you have created entries in the project registry and the registry values are of type Boolean, Date, Time, TimeStamp, or Float, exporting the project generates an error. This issue only applies to projects located on a CORE Server.	Install Service Pack 5. Alternatively, clear the specific values from the project registry before exporting.
524 – Importing Project-Level Permissions from CORE 8	When importing a project file that has been exported from CORE 8, the project information is properly imported, but the project-level permissions are not set. All element and attribute permissions are properly set. This error does not affect projects exported from CORE 9.	Install Service Pack 5. Alternatively, you can manually set the project-level access control after importing the project.
489 – Importing Hangul University Data Files	If you import a data file including a Hangul element description into the University Edition, an error occurs at the very end of the import process. The data is properly loaded, but the screen contents do not update until you manually use the refresh command.	Install Service Pack 5.
485 – Entering Hangul Descriptions for Attributes	When extending the schema and creating a new attribute definition or editing an existing attribute definition, the description field does not support Hangul characters. All other description fields for classes, relations, facilities, etc. support Hangul.	Install Service Pack 5.

Reference	Description	Resolution / Notes
484 – Entering Hangul via Set Attribute Command	The Set Attribute command allows you to set an attribute for one or multiple elements. When using this method to set attributes, Hangul characters are not properly supported for text attributes such as description.	Install Service Pack 5. Alternatively, enter text attributes via the property sheet.
483 – RTF Encoding in Audit Log when RTF Support Disabled	If RTF support is disabled (via the user preferences) and audit logging is enabled in order to maintain a descriptive history of changes, RTF encoding sequences are shown in the audit log as changes are made to the element. All changes are shown, but extraneous RTF tags are shown alongside the change messages.	Install Service Pack 5.
481 – Multi-Paragraph Descriptions in Reports	If RTF support is disabled, carriage returns are not properly translated when output in reports. This results in line breaks being lost between paragraphs. This issue only exists if RTF support is disabled.	Install Service Pack 5.

Description of Changes Included in Service Pack 4

Service Pack 4 includes the CORE-DOORS Connector User Guide. This guide shows how to share requirements between CORE and DOORS. It details the importing and exporting steps for each tool and suggested modifications to each schema in order to facilitate the data exchange.

Service Pack 4 introduces a new option for displaying relationships with other projects. When originally released, CORE 9 included an option to follow cross-project relationships through into the other project. This "white box" approach effectively created a mega-project as CORE diagrams, reports, and simulation ignored the project boundary. The other option initially included was a "black box" approach that stopped at the project boundary. It showed the related elements from the other project and their attributes, but not their relationships. With Service Pack 4, CORE includes a new option to hide elements in the related project altogether. In general, the "white box" or "black box" approaches represent the better choices for day to day operation. Occasionally, it is valuable to see your project in isolation, particularly if your project is a reference architecture or reuse module leveraged by other projects. Selecting the project connection option to hide connected elements allows you to perform analyses and generate formal documents that only reference your project elements.

In addition to this new option, Service Pack 4 includes corrections to several issues. Of note are those corrections which address several cross-project scenarios and use of the new ability to follow elements, folders, and packages of interest. Given these corrections and the two new enhancements, we recommend all projects apply Service Pack 4.

Reference	Description	Resolution / Notes
Enhancement – Hiding Relationships to Other Projects	The standard modes of operation for cross-project relationships are to follow through the related project (a "white box" approach) and to stop with connected elements (a "black box" approach). From time to time, it is useful to hide connected elements in a related project altogether. Service Pack 4 introduces a new "hide connected elements" option on the project connection dialog to enable this behavior.	Install Service Pack 4.
Enhancement – Exporting Parameters in Change Files	When selecting a project database changes export, CORE traditionally exports only those database changes made since merge history was erased. To simplify the management of parameters (introduced in CORE 9), exporting database changes now automatically exports any parameter definitions created since the merge history was last erased.	Install Service Pack 4.
Enhancement – CORE to DOORS Connector User Guide	The CORE to DOORS Connector User Guide explains the expected schema extensions and details the options available on import of data from DOORS.	Install Service Pack 4 or request document from Customer Support.
522 – Duplicating a Function with Multiple Exits	If you duplicate a function which has multiple exits, you receive a "nextNetworkIDNumber not understood" error. This error occurs with the Duplicate Element command and is not part of manipulating a diagram.	Install Service Pack 4.
521 – Changing Class ER Diagram Node Template	If you change the default icon template for the class ER diagram, when you later open a diagram, you receive a "minimumHeightForFont:objects: not understood" error. CORE incorrectly assigns the single-object Name template rather than the multi-object template.	Install Service Pack 4.

Reference	Description	Resolution / Notes
520 – Autosize Commands Fail on Class ER Diagram	If you apply any of the autosize commands to nodes on the class ER diagram, you receive an error. You can proceed to manipulate the diagram manually.	Install Service Pack 4.
518 – Second Project Baseline Results in Error	When you baseline a project, you have the option of including a comment. The second time you do this, you receive a ", not understood" error.	Install Service Pack 4. Alternatively, clear the previous comments from the project description or manually add the baseline comments to the project description.
517 – Exporting Icon Template Displaying Parameters	With the introduction of parameters in CORE 9, the icon templates were extended to optionally display all parameters for the element. If you customize an icon template to include parameters, you receive an error when exporting icon templates. You can use existing templates without error.	Install Service Pack 4.
516 – Importing CSV Files with Large Number of Columns	When importing a CSV file with a very large number of columns, it is possible to receive an "invalid window handle" error when CORE displays the mapping table. This error can also occur if the CSV file does not have end of line characters resulting in all values being on a single row.	Install Service Pack 4. CORE now limits CSV and DOORS imports to 255 columns.
515 – Listing Relationships for a Cross-Project Element	When creating relationships with elements in another project, in certain circumstances the list of relationships shown differs between projects. Specifically, some relationships are not shown when viewing the element in its main project.	Install Service Pack 4.
514 – Cross-Project Element Names not Updated	If your project is related to an element in another project and that element is renamed, the new name is not shown in your project until your project is closed and reopened.	Install Service Pack 4. CORE caches element names and attributes for use when the related project is not available. The cached name was being used in place of the live name.
512 – Folder Followers not Included in Change Files	If you choose to follow a folder and then perform a project database changes export, the folder followers are not included as part of the export. Folder followers are properly included in a full project export.	Install Service Pack 4. Following elements and folders is of greatest value when working collaboratively using a CORE Server. In this case, exporting changes is rare but is valid.
510 – IDEF0 Error for Connected Parent/Child Arrows	If you have a control specified for one node on an IDEF0 diagram and then have a child of that control specified for another node on the diagram, you receive a "lineColor: not understood" error.	Install Service Pack 4.
509 – Disconnect Related Projects Fails to Clean Up	If you use the Disconnect Permanently command for a related project when working on a CORE Server, CORE does not clear the cross-project relationships. Cross-project relationships are properly cleaned up when working on a local project. You can manually go through the project and remove the cross-project relationships without error.	Install Service Pack 4. No errors result from this condition, but the intent of this command is to sever all relationships.

Reference	Description	Resolution / Notes
508 – Error Accessing Unresolved Project Element	If you are leveraging cross-project relationships and have a related project that cannot be resolved, you can receive a "project not understood" error when clicking on elements from the related project. This occurs if the ID for the related project has been manually changed, the connection settings have been manually changed, or the project has been deleted.	Install Service Pack 4. This error occurs when selecting the cross-project element as CORE attempts to determine what views are valid. Resolving the project or installing the service pack will address the issue.
507 – Exporting Changes with Newly Created Folders	If you create a folder in a subordinate database and export changes, you will receive a "followersForExport: not understood" error.	Install Service Pack 4.
505 – Script Query Returns Incorrect Class for Cross-Project Elements	When executing a COREscript, if the script encounters an element from another project and uses the #class expression to access the element class, the value #Element is returned regardless of the database class.	Install Service Pack 4. In this instance, CORE is errantly returning the underlying object class. Alternatively, you can use the undocumented expression #databaseClass.
502 – Ignore Font / Color Formatting on Export to Word	When outputting a table to Microsoft Word® using the Export to Word capability, if you enable the "Ignore Formatted Text Fonts and Sizes" option not all font information is ignored. The font face is changed and the color does shift, but the values are not ignored in favor of the embedded table styles.	Install Service Pack 4.

Description of Changes Included in Service Pack 3

Service Pack 3 corrects a number of issues, some of which are very subtle and some which are not. The most notable issues affect teams working collaboratively with remote projects on CORE Server and center around the server-based import / export of new project data introduced in CORE 9. In addition, several issues involving specific field types and combinations of options in the Import from CSV capability have been resolved. Given these changes, we recommend that all projects apply Service Pack 3.

In addition to these corrections, Service Pack 3 includes one notable enhancement. To enrich the user experience when running reports, a new project explorer prompt has been added to the library of prompts available to a script author. This allows authors to leverage a project-explorer-style expandable tree view to prompt the user to select a package, folder, or the entire database. In Service Pack 4, several of the base CORE reports will be revised to use this new prompt, but you can begin using this new prompt in your custom reports immediately.

Reference	Description	Resolution / Notes
Enhancement – Project Explorer Prompt Added to COREscript	There are many reports which provide the user the option of operating on a folder, a package, or the entire project. To better support these selections, a new Project Explorer Prompt has been added to the set of available COREscript constructs. The prompt displays an expandable tree view of the database similar to the left pane in the project explorer allowing the user to select a single item. The script author can control which selections are displayed – packages, folders, and/or the entire database.	Install Service Pack 3. The COREscript Construct and Expression Language guides have been updated to help those wishing to leverage this new prompt.
Enhancement – Expression "replaceAll:with:" not Included in Documentation	The string expression "replaceAll:with:" which allows the replacement of substrings in the COREscript environment was a previously undocumented expression. It is a valid expression but was not listed in the COREscript Expression Language Guide and was not included in the approved expression set when using the Validate button in the scripting environment.	Install Service Pack 3. CORE includes a broad set of undocumented, private expressions. These expressions are valid but not included in documentation or automated validation for different reasons. From time to time, private methods are made public to provide additional user capability and convenience.
503 – Cross-Project Relationships within Nested Package Structure	If you have specific nested package structures and add elements from other projects into the package hierarchy, you can receive an error when the element is modified. This error only occurs when operating on a remote project and only occurs with very specific package structures.	Install Service Pack 3.
501 – CSV Import Handling of Empty Cells	If you specify an attribute cell that does not exist (for example, duration for a Component element), the Import from CSV stops processing the row and moves to the next row. This is true even if the cell value is blank and the option to ignore empty attributes / parameters has been selected. When importing sparse tables with attributes for many different element classes, it would be better if these cells were ignored.	Install Service Pack 3. If CORE encounters an empty cell and the option to ignore empty attributes / parameters has been enabled, the cell is bypassed and the remainder of the row is now processed.
500 – Removing Parameter from Element	If you remove a parameter from an element located in a remote project, you receive a "canAttribute:beReadBy: not understood" error. This operates correctly on a local project.	Install Service Pack 3.

Reference	Description	Resolution / Notes
499 – Exporting Project Registry Entries on CORE Server	If you set any registry entries on a remote project, exporting the project results in an error similar to "No method was found for the selector isTimeStamp." Several default reports such as the PUID scripts leverage the registry to streamline and simplify operation so registry entries are common.	Install Service Pack 3. Alternatively, project registry values can be removed prior to export. This workaround is only recommended if installation of Service Pack 3 is not possible.
498 – Interface Block Diagrams not Included in TeamView	Physical and internal block diagrams are included in the TeamView HTML output. However, interface block diagrams are not.	Install Service Pack 3. In CORE 9, diagrams were reclassified into "physical" and "physical interface." The TeamView report has now been updated to support the diagram reclassification.
497 – Block Diagram Node Repositions when Selected	If a physical, interface, or internal block diagram is scrolled such that a diagram node is partially off screen at the top or left edge of the diagram, selecting that node causes it to shift slightly into the viewable area. The diagram may then scroll such that the shift is not visible, but the node is repositioned which may cause lines to redraw.	Install Service Pack 3.
495 – IDEF0 Line Coloring Not Shown	On the IDEF0 diagram, if you move a label away from a line such that a lightning bolt is required to connect the label to the line, the line coloring defaults to black.	Install Service Pack 3.
493 – Jump to Target Command Obsolete	With the introduction of the Jump to Element command in Service Pack 2, the Jump to Target command is obsolete. It has now been removed from all menus.	Install Service Pack 3.
492 – Element Name Block in Diagram Frame Fails to Display	If you use the element name field in a diagram frame (either in the header or the footer), the field will fail to display and subsequent frame values will be blank.	Install Service Pack 3. This does not affect the SysML frame which is the default way to show the element name on diagrams.
482 – Elements Misfiled when using Hangul Folder Names on CORE Server	If a folder name is in Hangul and the folder contains elements, when the project is imported on the server, the elements are placed in the main folder instead. This operates correctly in a local import.	Install Service Pack 3.
480 – Parameter Value Field Blank when Write Permission Denied	Given a project with fine permissions (supporting permission specification at the attribute and parameter level), if you have been denied write permission to a specific parameter, the parameters tab displays the units but not the value. Both the value and the units are properly shown when embedded in a text attribute such as the description.	Install Service Pack 3.
479 – Importing Parameter Definitions into Remote Projects	Importing a parameter definition with a description results in an error on the CORE Server. The error occurs when CORE attempts to set the tip text associated with the parameter. This error does not occur on local projects.	Install Service Pack 3. Alternatively, delete the parameter definition before exporting your project.

Reference	Description	Resolution / Notes
478 – TeamView Excludes Block Diagrams with Multiple Parents	For those projects using the v90 schemas, CORE 9 removes the limitation that prevented the display of physical and interface block diagrams in which components had multiple parents. (This was made possible by the shift to decomposable links and interfaces.) Legacy code in the TeamView report checks for the multiple-parent condition and excludes those block diagrams.	Install Service Pack 3.
476 – Exporting Relationship to Single CSV Cell	When using the Export to CSV command on a remote project, if you specify a relationships cell and select the "Output as a Single Cell" option, you receive an "includes: not understood" error. This works properly when working in a local project or when specifying a targets cell.	Install Service Pack 3. Alternatively, use a target cell instead of a relationship cell. The relationship cell is only necessary if a subsequent cell will include an attribute of the relationship.
475 – Creating Packages / Folders from Import Wizard	The CSV and DOORS import wizard dialogs include pop-up menu commands for the creation of packages and folders. If you use these commands, the package/folder is created, but the navigation tree is not updated.	Install Service Pack 3. These pop-up menus have been removed. The navigation tree in the import wizard is for selection only.
474 – Deleting an Empty Project May Generate Error	When deleting an empty project, the user will occasionally receive a "removeKey:ifAbsent: not understood" error. The error is not reproducible and does not occur under normal or test circumstances.	Install Service Pack 3. The issue relates to the addition of alerts in CORE 9. Though the error is not reproducible, the framework has been made more robust.
473 – Importing CSV into Remote Project	Importing a CSV file into a remote project (a project located on a CORE Server) results in an error. The CSV file can be imported successfully into a local project.	Install Service Pack 3.
472 – Export Includes Folders for Abstract Classes	Exporting a project includes folders for abstract classes. Importing this information into GENESYS results in a conflict.	Install Service Pack 3. The GENESYS conflict is a soft error with no consequences, but the conflict is a distraction.
471 – Exporting Parameter to CSV	When including a parameter field (either the value or the units) in a CSV export, you receive a "nextPuT: not understood" error.	Install Service Pack 3.
470 – Cannot Use Argument in Parameter Script Constructs	If you attempt to use an argument to specify the desired parameter name in the Set Parameter Units or Set Parameter Value script constructs, the argument will not be displayed when you reselect the script construct.	Install Service Pack 3.

Description of Changes Included in Service Pack 2

As with Service Pack 1, Service Pack 2 includes several capability enhancements. Of particular note are a new Export to Word[i] option and a new tabular output for diagnostic results. The Export to Word command located alongside the Export to DOORS[ii] 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 or on the community site at 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.

Due to a change in a service library, a server upgrade may require a reboot to complete.

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. Alternatively, 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 support@vitechcorp.com or suggesting them at community.vitechcorp.com.
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	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. 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.	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	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: • Requirements – a basic requirements listing showing requirements in hierarchical order with descriptions and parent requirements; • Requirements Traceability – a summary table showing requirements in hierarchical order with descriptions, traceability to the model, and corresponding verification requirements; and • 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.	Install Service Pack 1 to leverage these new tables. Alternatively, you can simply define and save these tables (or others) yourself. 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 support@vitechcorp.com or directly with the community at community.vitechcorp.com.
Enhancement – Reporting Duplicate PUIDs	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.	Install Service Pack 1.
436 – Export local project when connected to a server	If you are connected to a server you get an error when you attempt to export a local project.	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.

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