

Cordova: Fast and Easy D365F&O TFVC DevOps

Administration & User's Guide Version 1.0.8

for Microsoft Dynamics 365 for Finance and Supply Chain Management





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Version History

Version	Software Version	Date	Description
001.000.001	001.000.064.000	04/11/2024	First public release.
001.000.001	001.000.066.000	04/12/2024	Fixed issues related to SQL referential integrity.
001.000.003	001.000.066.000	04/16/2024	Updated documentation to 1.0.66 standards.
001.000.004	001.000.068.000	05/08/2024	Microsoft work account integrated login. Microsoft AppSource integration.
001.000.005	001.000.071.000	05/14/2024	Improved login experience.
001.000.006	001.000.071.000	05/15/2024	Added troubleshooting section.
001.000.007	001.000.072.000	05/16/2024	Fixed issues with the merge log.
001.000.008	001.000.074.000	05/29/2024	Automatic 30-day trial without registration. Microsoft model auto-detection. Atlantic Oak licensing outside AppSource.



Introduction

The Cordova system was created to make it easy to promote Dynamics 365 for Finance and Operations source code between TFVC (Team Foundation Version Control) code branches.

Cordova will also make it easy for you to communicate those code promotions to your team.

Cordova has powerful auditing capabilities that will allow you check when and how those code promotions have been made.

Cordova will also allow you to test the compilation of the remote repositories after a code promotion to make sure that your Azure Pipelines will execute successfully.

Cordova will significantly cut the time you spend doing DevOps work for Dynamics 365 for Finance and Operations.



Trial Period

You can download the latest version of the product from https://atlantic-oak.com/Downloads/D365FO_Cordova_TFVC.

You can test trial Cordova for a period of 30 days. No registration required.

During the evaluation period, prospective clients are entitled to the same level of support as our regular customers.



Support

If you require assistance, experience problems or if you have any questions or comments send us an e-mail to support@atlantic-oak.com.

Our support services include answering questions about the existing functionality of our software, general suggestions and expedited bug fixing. Regular support requires competency in the technology and development environment being used (Dynamics 365 for Finance and Operations, Visual Studio and Azure DevOps).

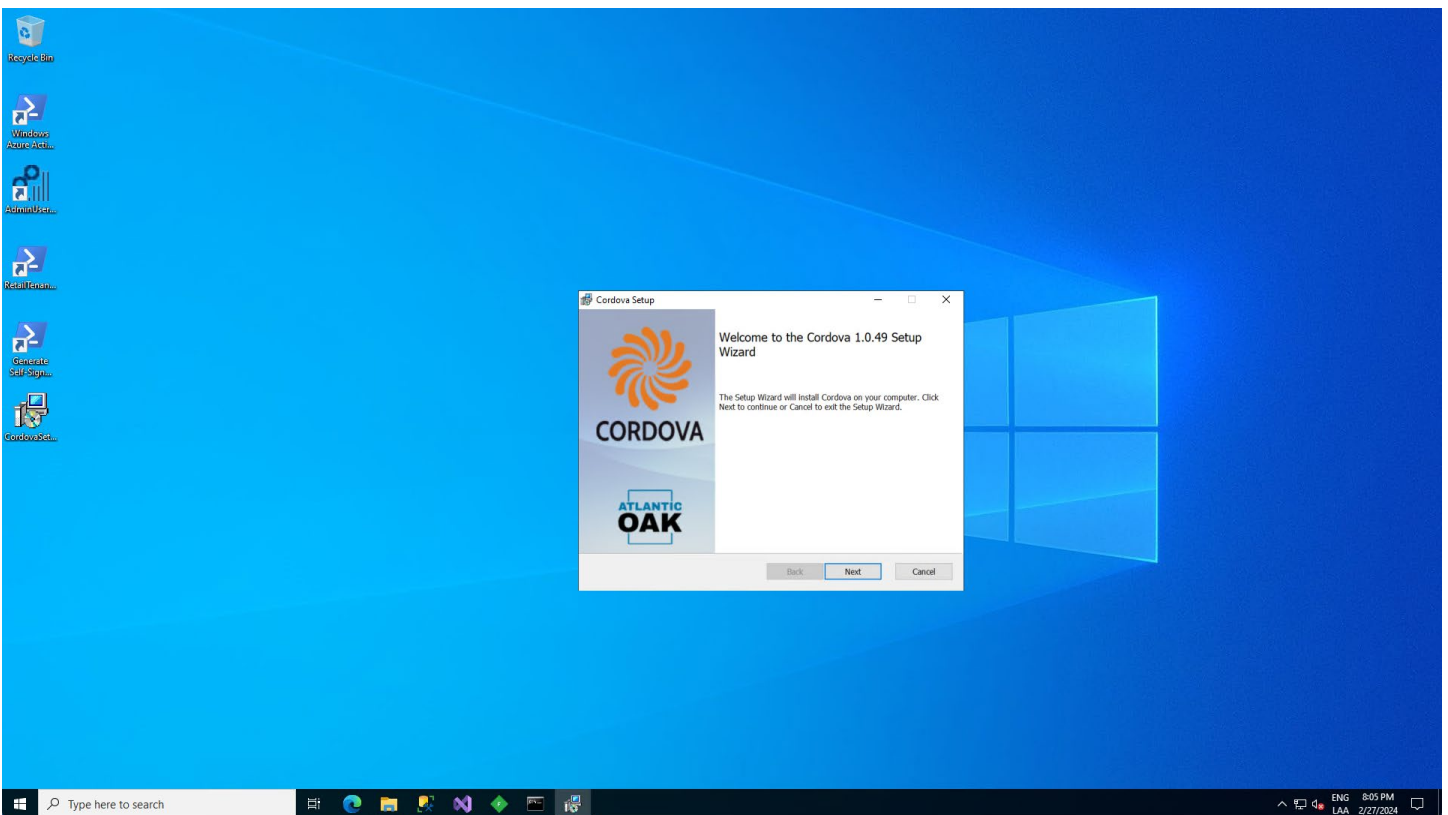
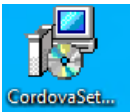
Installation Instructions

Cordova can be installed in any Windows system. Since Cordova requires SQL Server and access to the TFVC repositories, plus the x++ compilers, it makes sense to install Cordova on a D365F&O one box environment. The one box environment can be a local or cloud hosted environment. The install program will search for earlier versions of Cordova and will remove them if present. There is no need to uninstall them first.

Once you have downloaded the installation package from our website at:

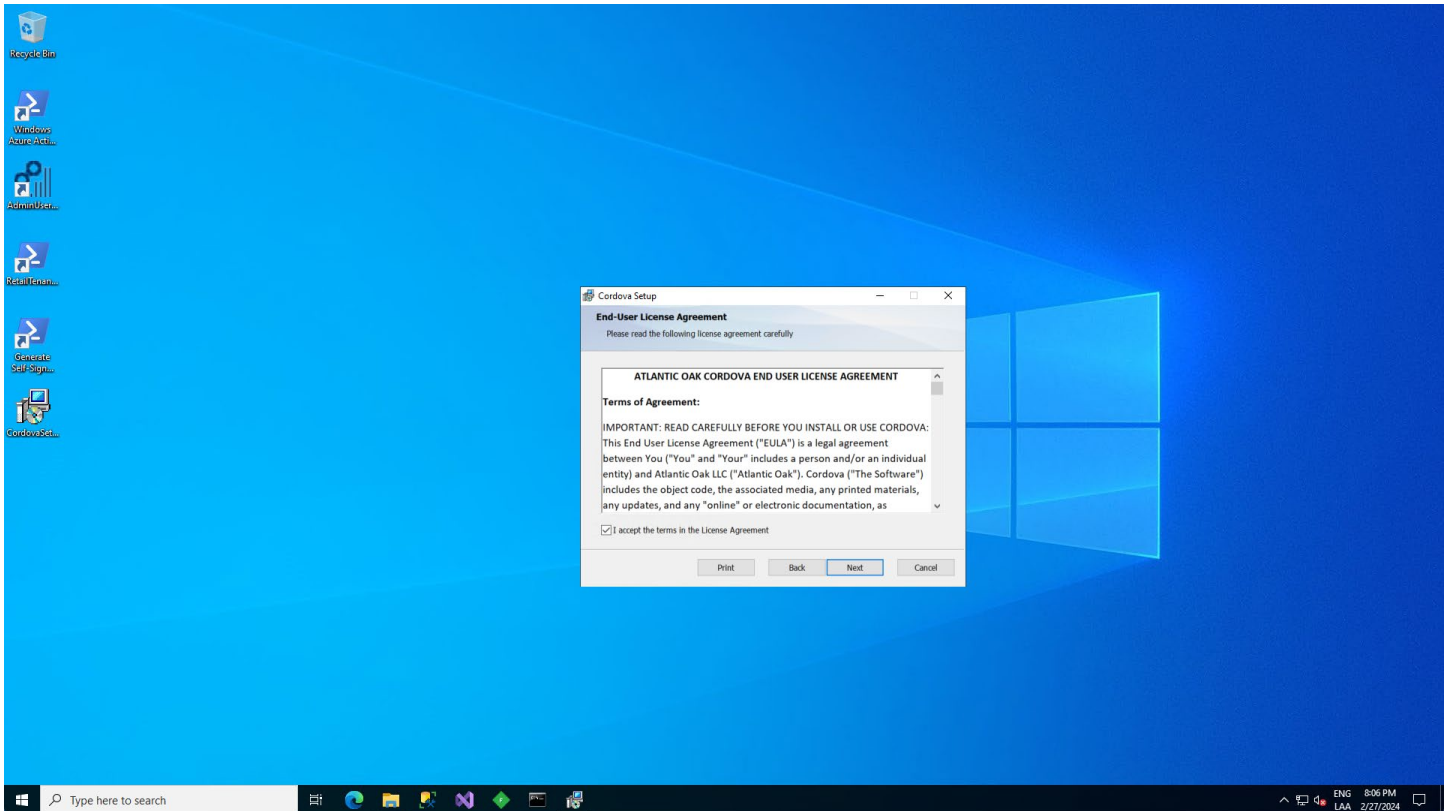
https://atlantic-oak.com/Products/D365FO_Cordova_TFVC_Management_System

Important: you must unblock the .zip file. Extract and double click on the CordovaSetup_V_XXX.XXX.XXX.XXX.msi file contained in the zip file. It will launch the setup wizard.



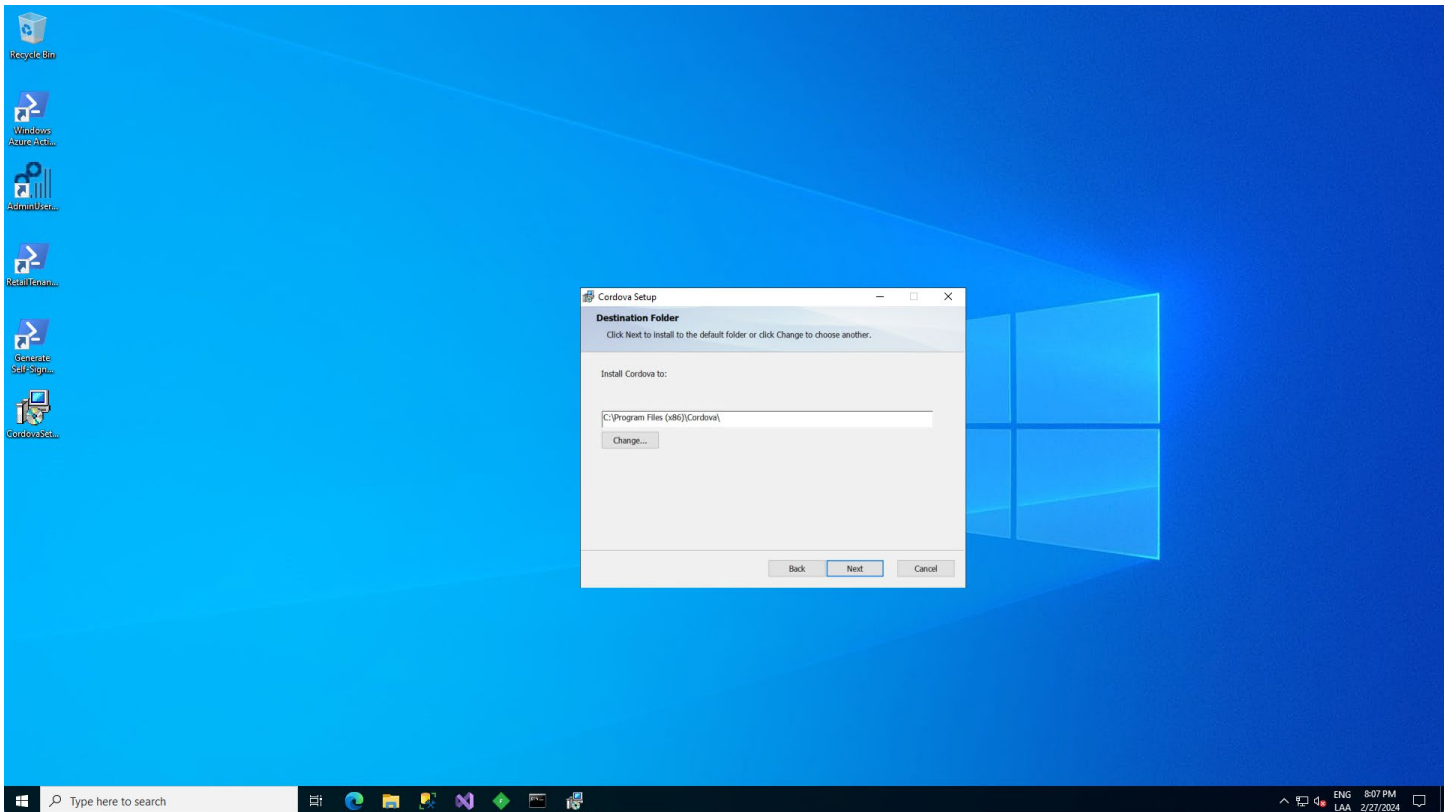
Click on the **Next** button.

Read the Atlantic Oak Cordova End User License Agreement. Once you have finished, mark the “**I accept the terms in the User Agreement**” check box.

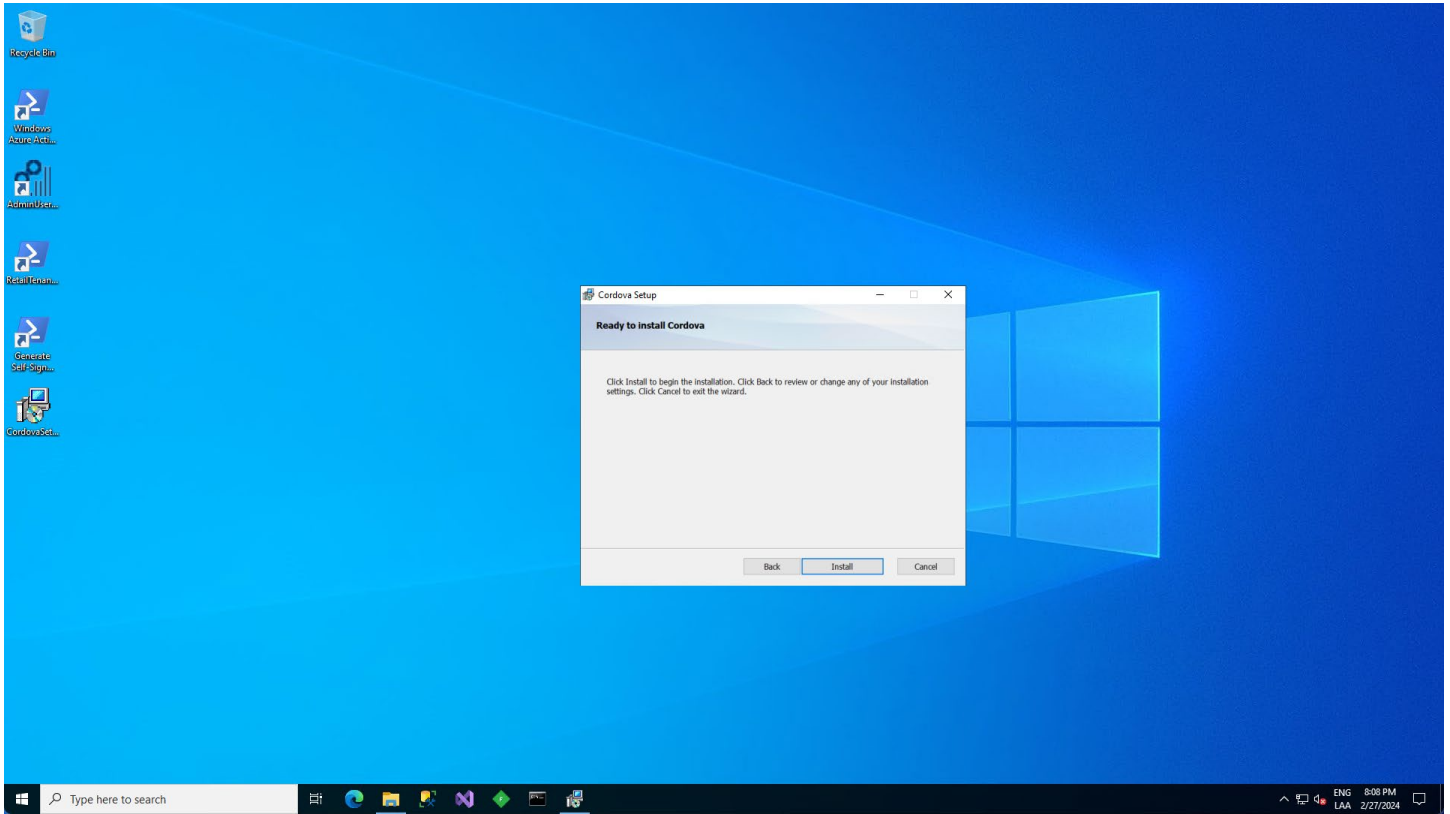


Click on the **Next** button.

Select the install directory or leave the default selection (recommended).

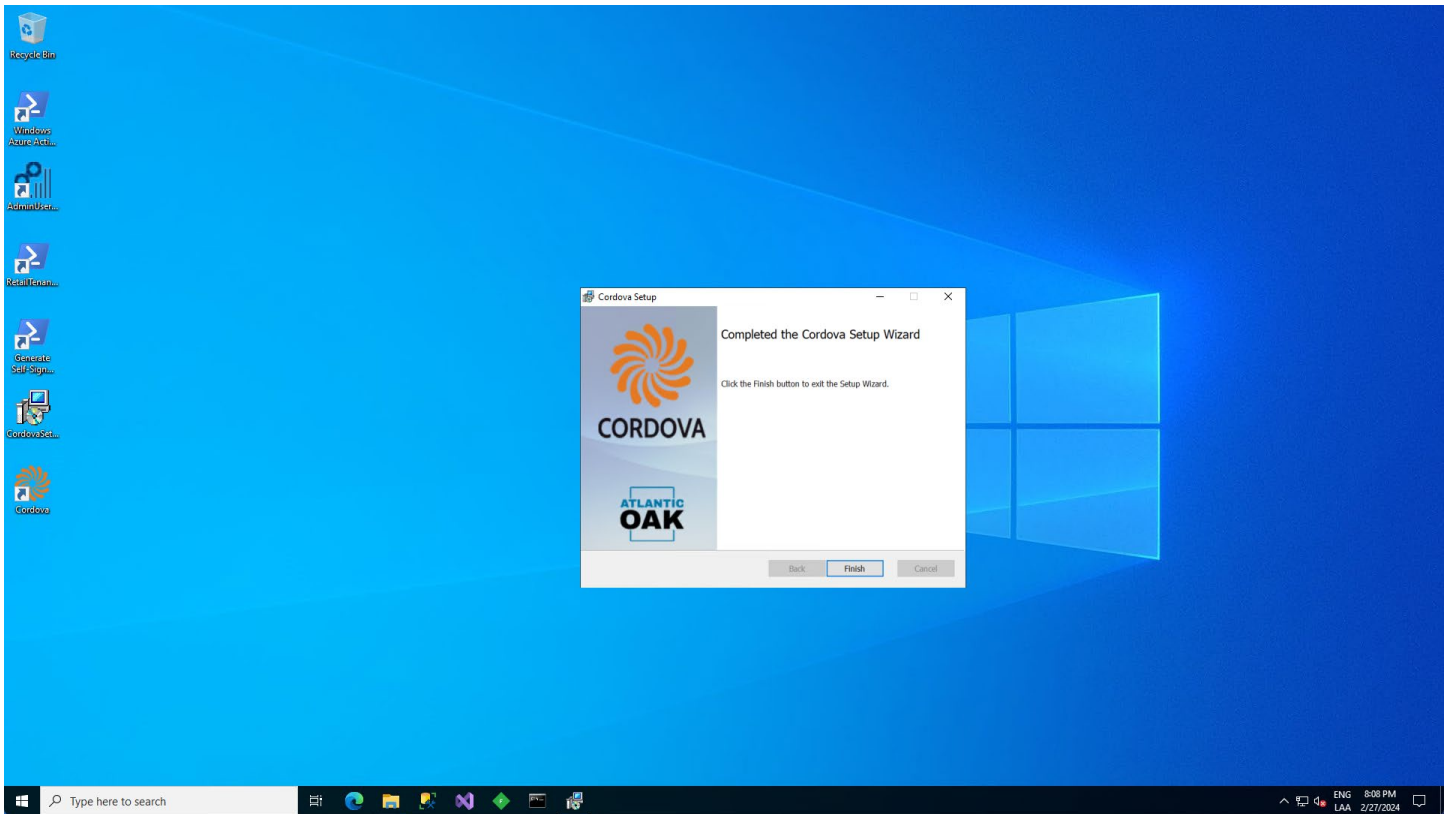


Click on the **Next** button.



Click on the **Install** button to continue.

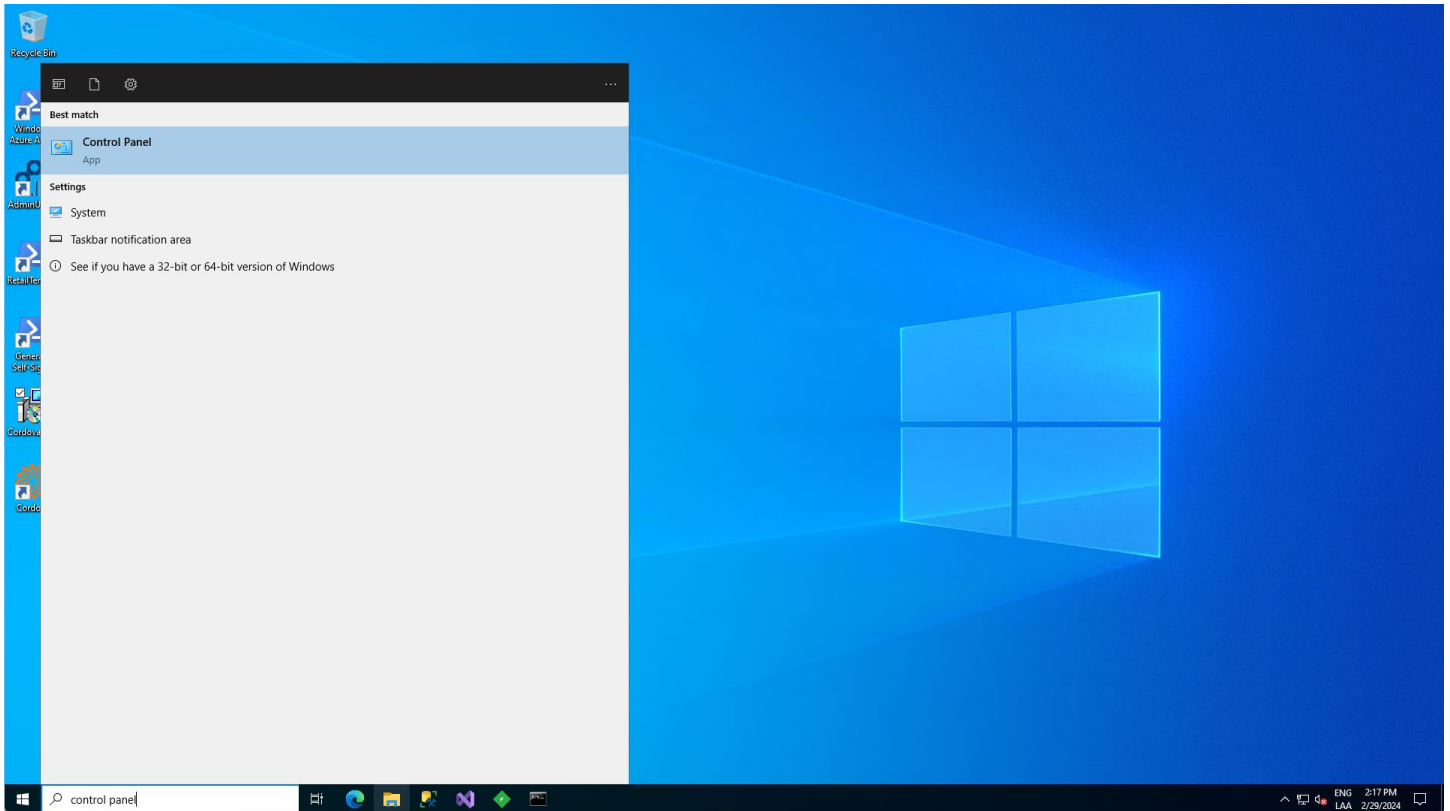
Once the install has finished successfully you will see the completion screen.



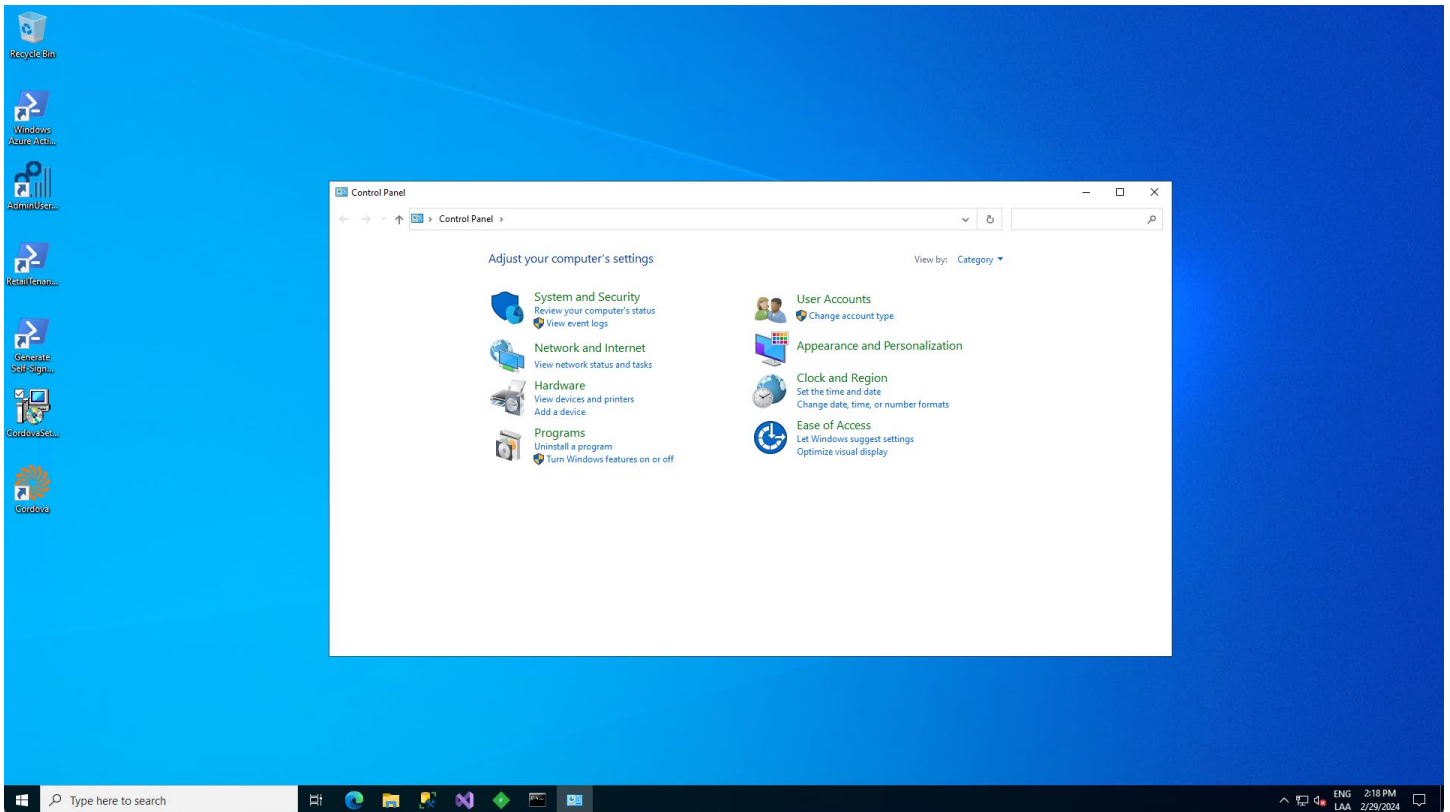
Click on the **Finish** button to exit the setup wizard.

Uninstall Instructions

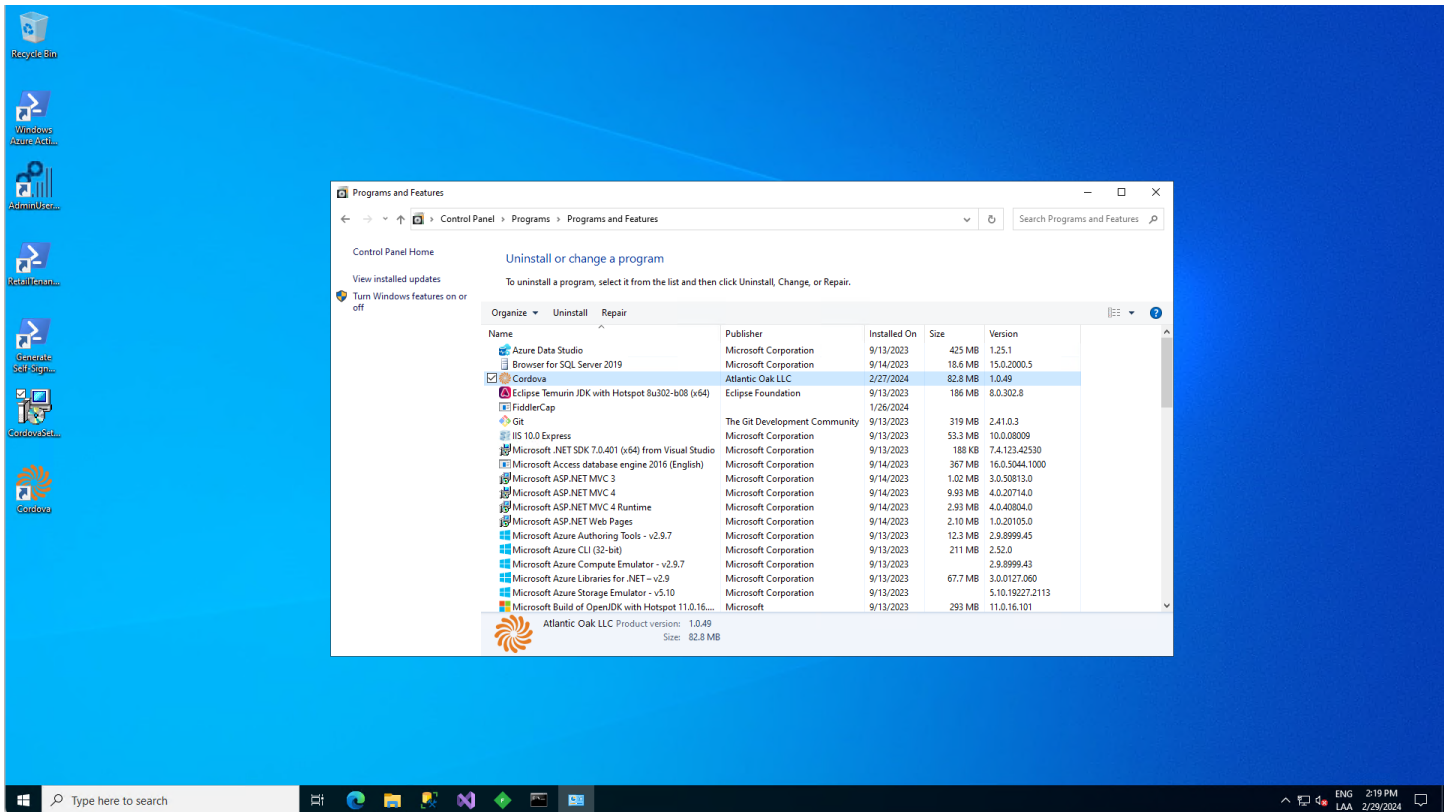
Type **“control panel”** in the Cortana search bar at the lower left-hand side of the windows environment.



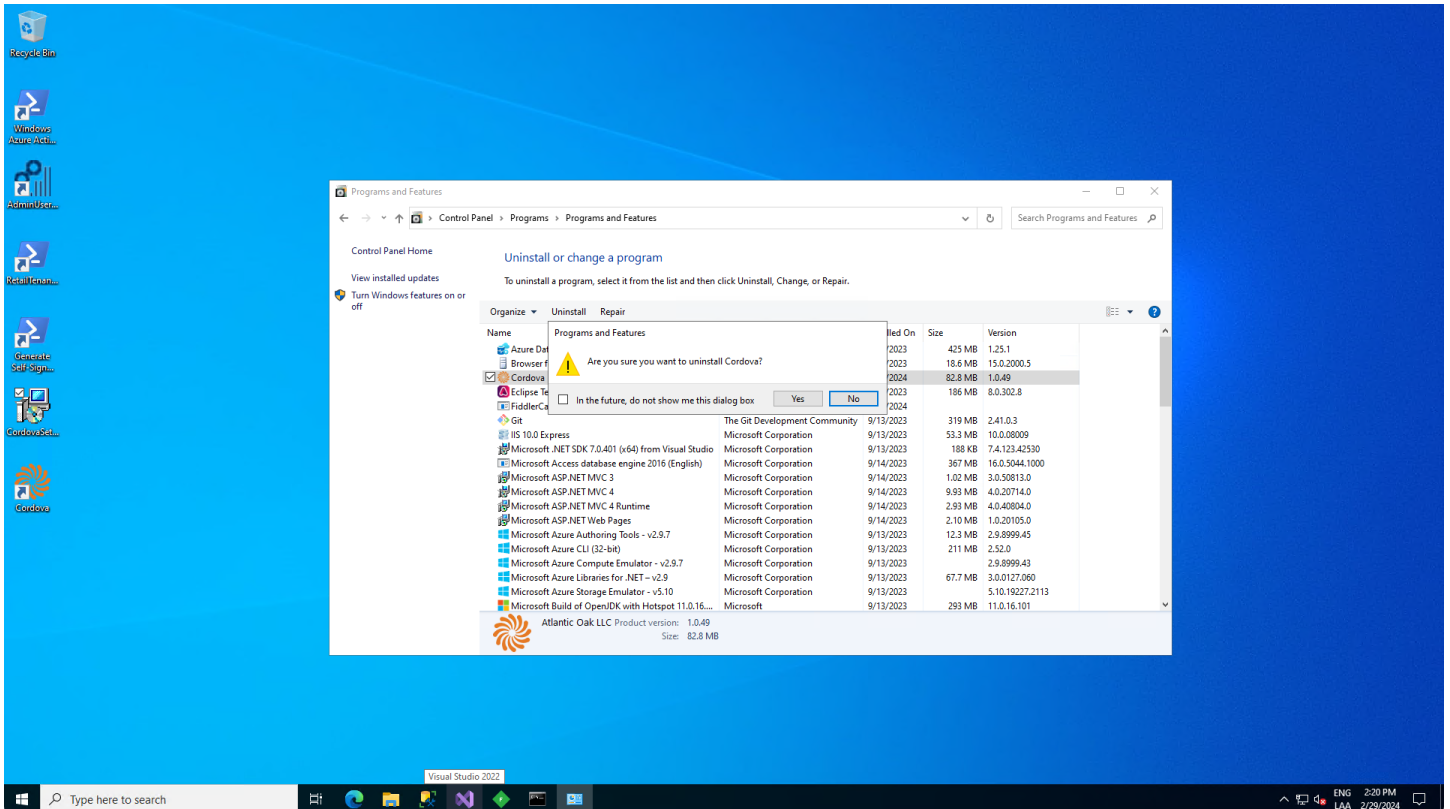
Click on **“Uninstall a program”** under **Programs**.



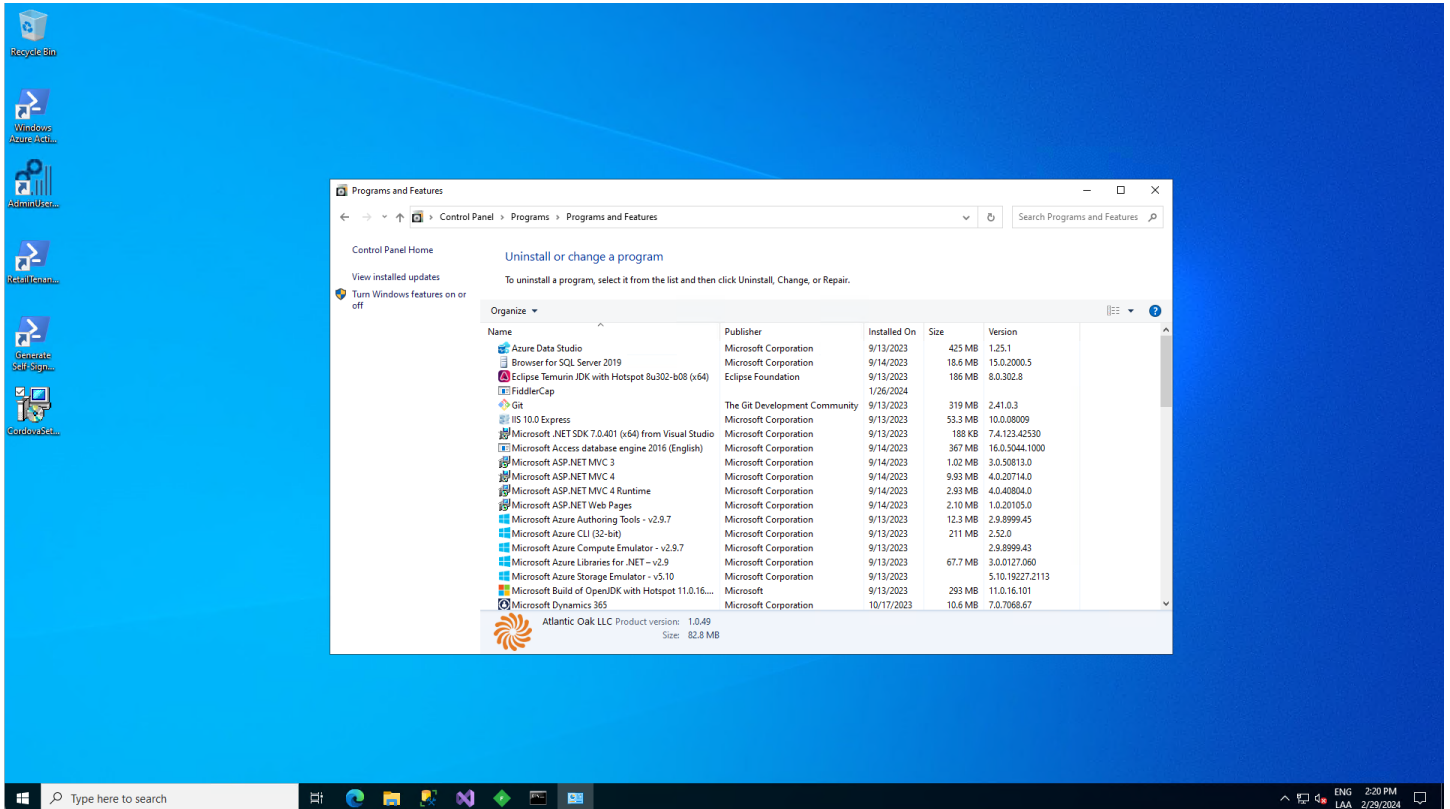
Select **Cordova** and click on the **Uninstall** button.



The system will prompt you: **“Are you sure you want to uninstall Cordova?”**, click on the **Yes** button.



After a few seconds **Cordova** will be uninstalled from your system.



Setup

To begin setup, after successfully installing the product, click on the Cordova desktop icon that was created on your desktop during the install process.



After the initial 30-day trial period, the system will ask the user to login using their Microsoft Work Account. The user must then have a valid Cordova license.

License

After the initial 30-day trial period, each user will require a license. You can purchase licenses in Microsoft AppSource:

<https://appsource.microsoft.com/en-us/product/web-apps/atlanticoakllc1619304421451.96150ef4-9f0e-40b3-abbd-3ef0a50ea60c?tab=Overview>

By creating a subscription in AppSource you are automatically granted a 1-month trial period. You can cancel anytime during this trial period.

After purchasing licenses, you can assign them to users in your organization by going to the Microsoft 365 Admin Center:

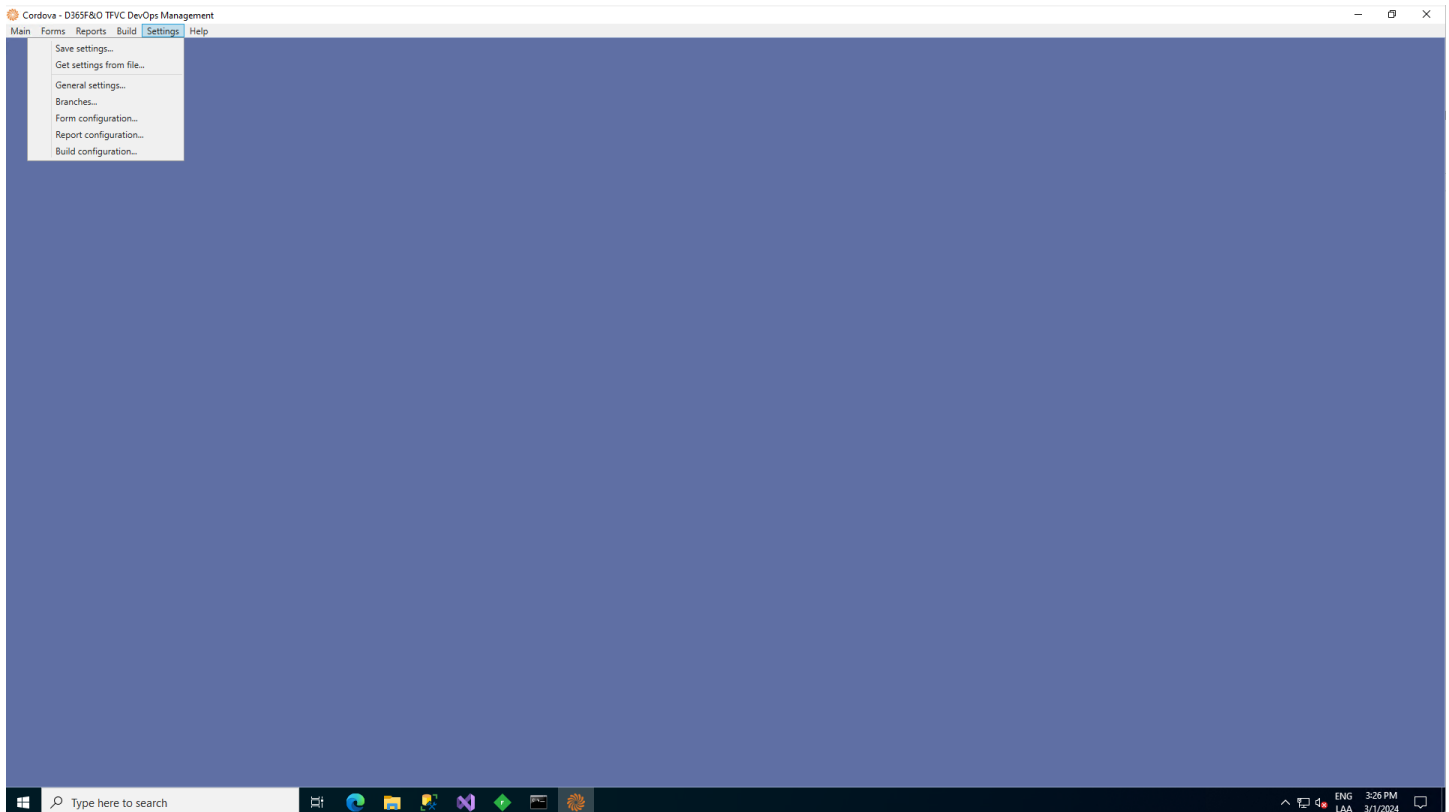
<https://admin.microsoft.com/Adminportal/Home#/licenses>

The screenshot displays the Microsoft 365 Admin Center interface for managing licenses. The main content area is titled 'Licenses' and includes tabs for Subscriptions, Requests, and Auto-claim policy. Below the tabs, there is a brief instruction: 'Select a product to view and assign licenses. Each product below may contain licenses from multiple subscriptions. Learn more about assigning licenses'. A link is provided to 'Go to Your products to manage billing or buy more licenses'. There are also 'Export' and 'Refresh' buttons. The license list table is as follows:

Name ↑	Available licenses	Assigned licenses	Account type
Cordova - Fast and Easy D365F&O DevOps - Cordova C1	50	0/50	Organization
Cordova - Fast and Easy D365F&O DevOps - Cordova E0	18	1/19	Organization
Dynamics 365 Business Central Partner Sandbox	2	3/5	Organization
Dynamics 365 Business Central Premium	12	3/15	Organization
Dynamics 365 Operations Application Partner Sandbox	22	3/25	Organization
Dynamics 365 Sales Enterprise Edition	12	3/15	Organization
Dynamics 365 Sales, Field Service and Customer Service...	22	3/25	Organization
Microsoft 365 Business Premium	8	7/15	Organization
Microsoft Power Automate Free	9997	3/10000	Organization
Power BI Premium Per User	12	3/15	Organization
Project Plan 5	2	3/5	Organization
Visio Plan 2	2	3/5	Organization
Windows 365 Enterprise 8 vCPU, 32 GB, 512 GB	0	1/1	Organization

Users will need assigned licenses if they are going to use Cordova beyond the 30-day trial period.

When Cordova loads for the first time, you must configure all the settings in the system.



There are five different configuration screens:

- General settings.
- Branches.
- Form configuration.
- Report configuration.
- Build configuration.

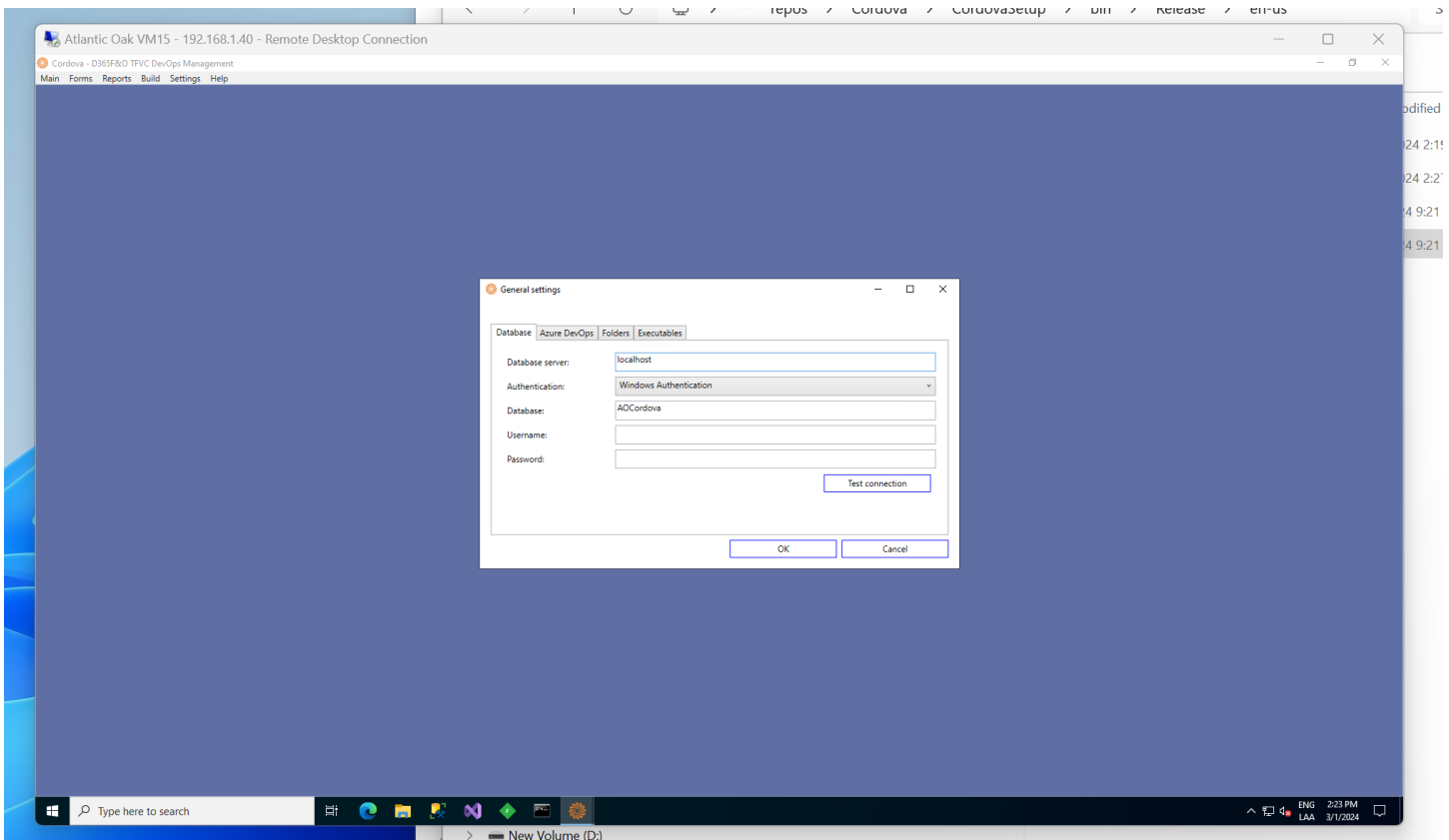
General settings should be configured first, followed by branches.

General Settings

The General settings dialog is divided into four tabs:

- Database
- Azure DevOps
- Folders
- Executables

The Database tab is used to specify Sql Server connection information to the Cordova database that is created on system startup. **In a one box environment the settings are populated by default. They should not be changed, unless needed.**



Tab controls:

Database server: The SQL database server name. Generally **localhost** for one box environments. It can also be an IP address, or **.\SQLEXPRESS** for SQL express installs for example.

Authentication: Windows Authentication or SQL Server Authentication.



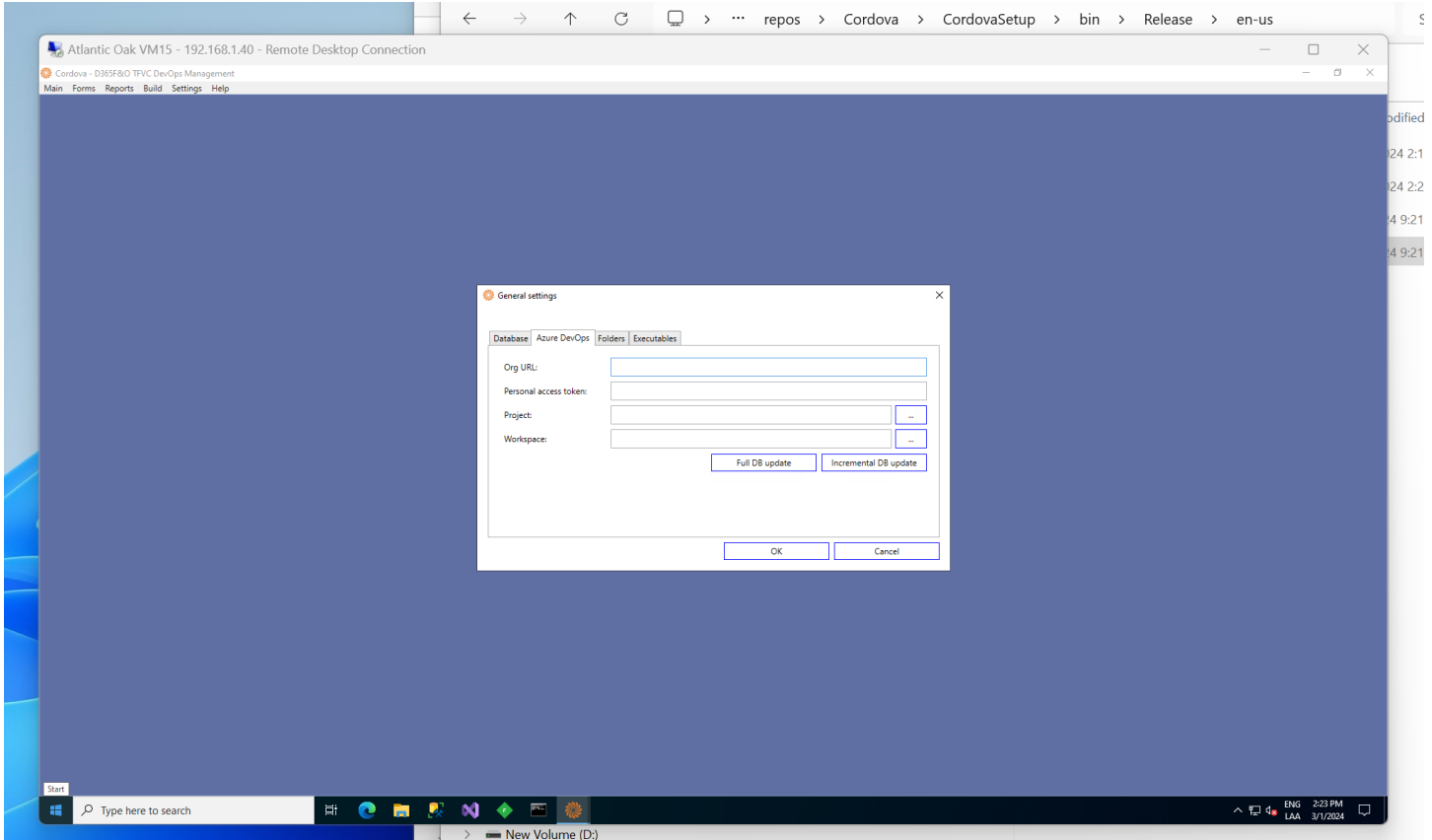
Cordova TFVC Management System

Database: The name of the Cordova database. On initial startup Cordova will create a database called AOCordova.

Username: The SQL server administrator username.

Password: The SQL server administrator password.

In the Azure DevOps tab, you must enter the settings to connect to the Azure DevOps instance that is being used by your organization,



Tab controls:

Org URL: It is generally of the form <https://dev.azure.com/YourOrganizationName>. If in doubt, ask your system administrator or contact us at support@atlantic-oak.com.

Personal access token: The personal access token created in Azure DevOps to allow third party software access. You can navigate to: <https://learn.microsoft.com/en-us/azure/devops/organizations/accounts/use-personal-access-tokens-to-authenticate> for more information.

Project: The name of the project that contains Dynamics 365 for Finance and Operations code. An organization can have several projects so ask your system administrator or contact us at support@atlantic-oak.com. Use the button on the left (the one with three dots) to bring up the project selector dialog.

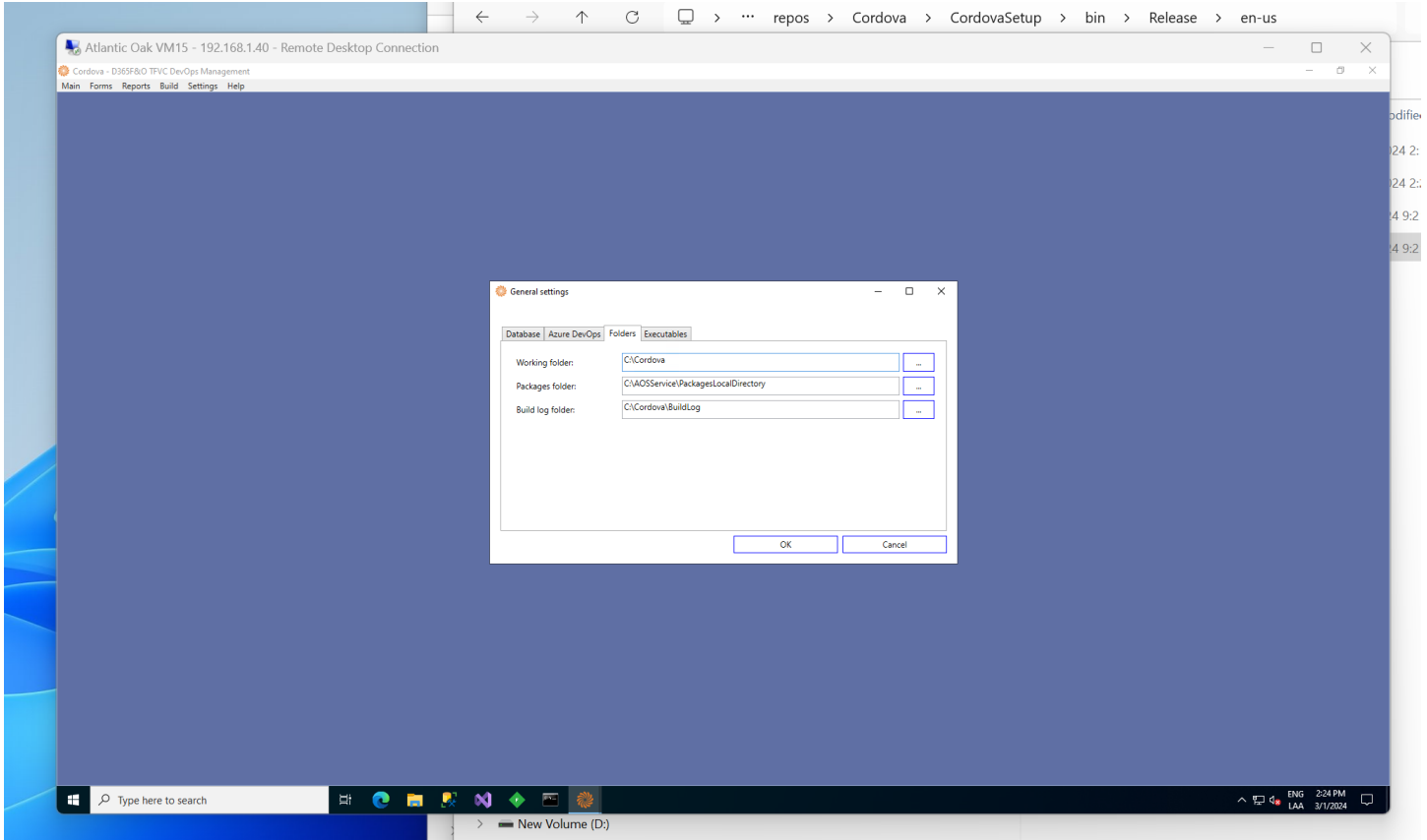


Workspace: The workspace that contains the branch mappings, you can get this information from Visual Studio. You might have more than one workspace in your system, and the rule of thumb is to use the workspace that has any number of mappings. Unused workspaces will have 0 mappings. If in doubt, ask your system administrator or contact us at support@atlantic-oak.com. Use the button on the left (the one with three dots) to bring up the workspace selector dialog.

Once you have configured all the above values click on the **"Full DB update"** button. Cordova will begin querying Azure DevOps and copying data to the local database. Depending on the size of the database this operation might take a few minutes or longer.

The **"Incremental DB update"** button can be clicked when you feel like the local DB needs an updated dataset. But generally, Cordova takes care of updating the DB automatically.

The folders tab is populated with values by the system by default. These folders are used to keep temporary and other files, such as reports, that are generated by the Cordova system.



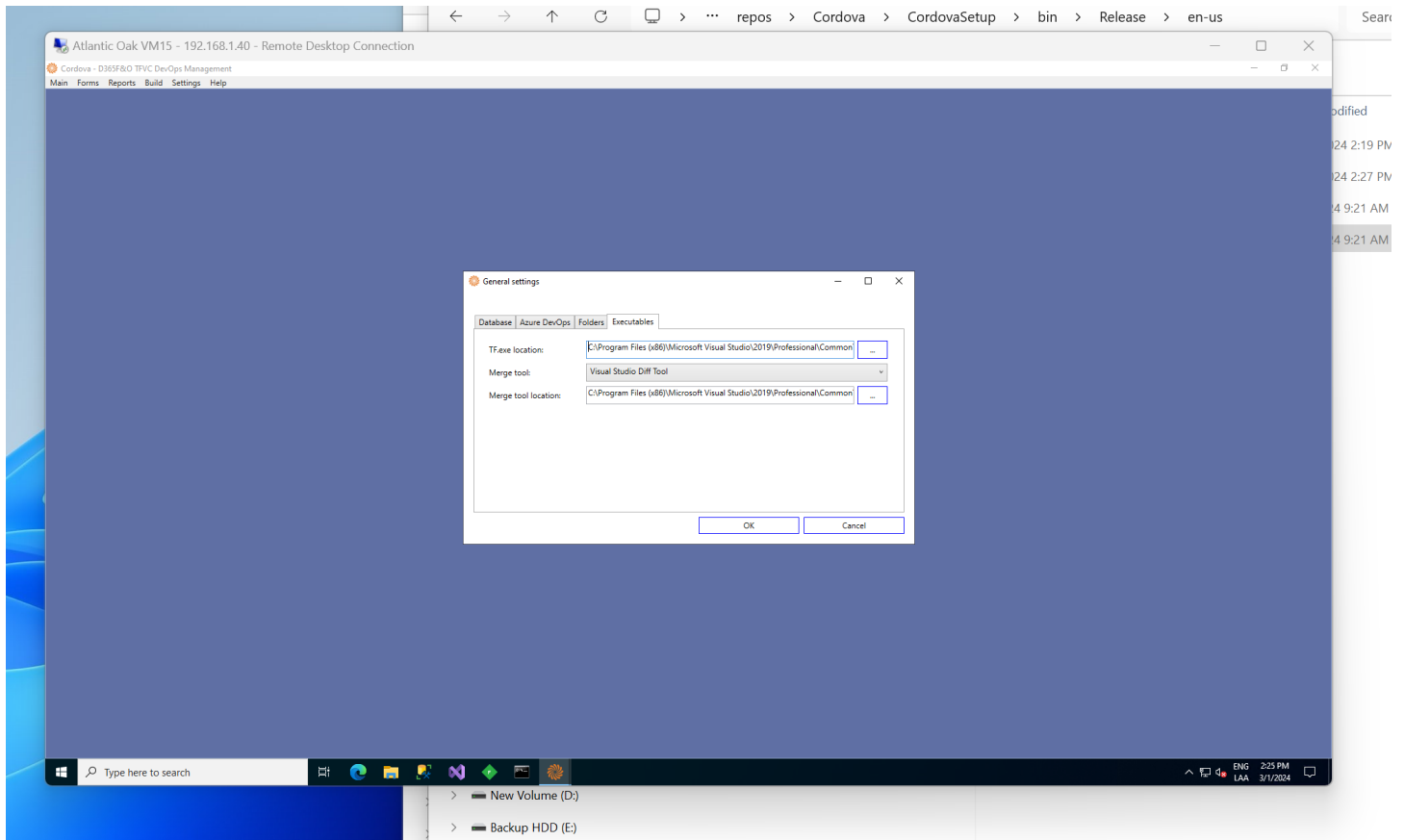
Tab controls:

Working folder: The path to the working folder for the system. This folder will store several files such as reports.

Packages folder: The packages folder on one box systems. Will be blank if Cordova is running on a system that is not a one-box.

Build log folder: Will contain temporary files created during build processes.

The executables tab is populated with values by the system by default. It contains path information for executables that are invoked within the Cordova system.



Tab controls:

TF.exe location: Path to the TF.exe executable.

Merge tool: Merge tool type. Currently the only valid option is "Visual Studio Diff Tool".

Merge tool location: Path to the executable for the merge tool.

Branches

The branches screen will allow you to specify which code branches of your project you wish to have as origins or destinations of merge operations.

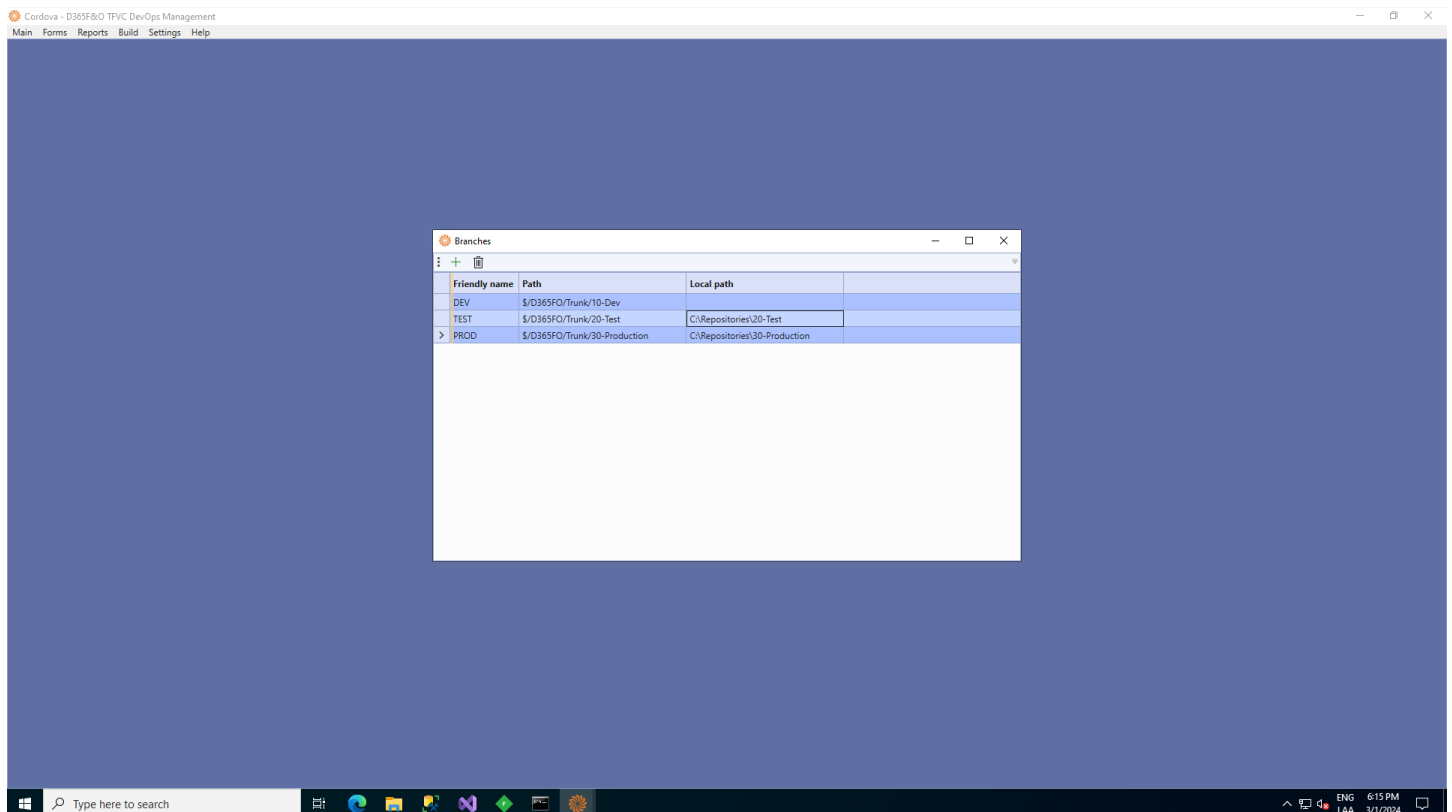
Toolbar buttons:



Add a branch.



Remove a branch.



Grid columns:

Friendly name: A short description to identify the branch. Will show up in reports instead of the repository path.





Path: The complete path of the branch in the Azure DevOps code repository.

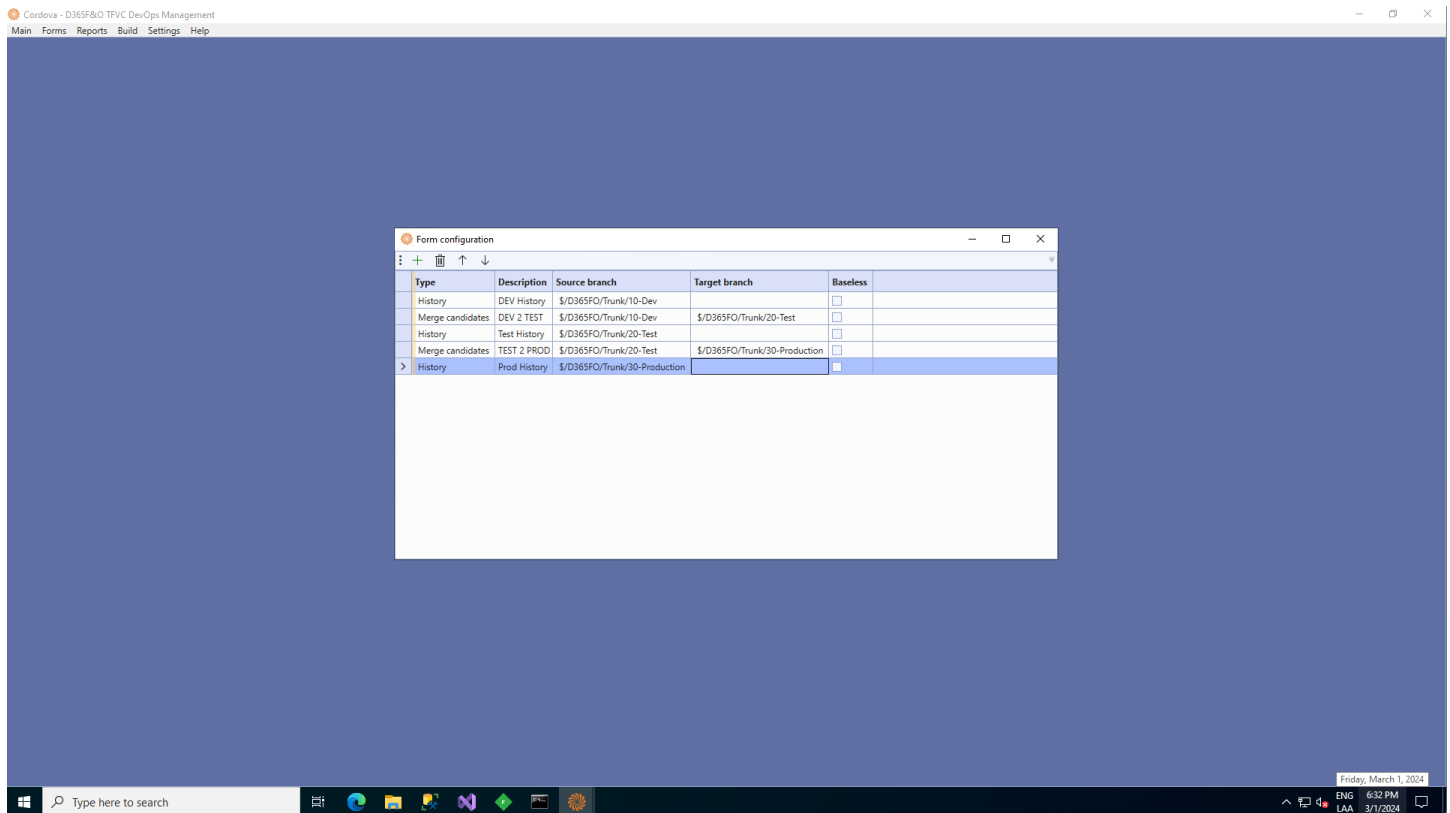
Local path: (Optional) The mapping to the local machine. Will only be used by the TF.exe script generation process.

Form Configuration

The form configuration dialog will allow you to specify the merge or history operations that you execute frequently and want to keep handy. A history form will allow you to view the history of the changesets for a given branch and perform changes to the check in comments or change the associated Azure DevOps tasks. A merge candidates form will allow you to merge two branches.

Toolbar buttons:

-  Add a form configuration line.
-  Remove a form configuration line.
-  Move line up.
-  Move line down.



Grid controls:

Type: History or Merge candidates.

Description: A short description.



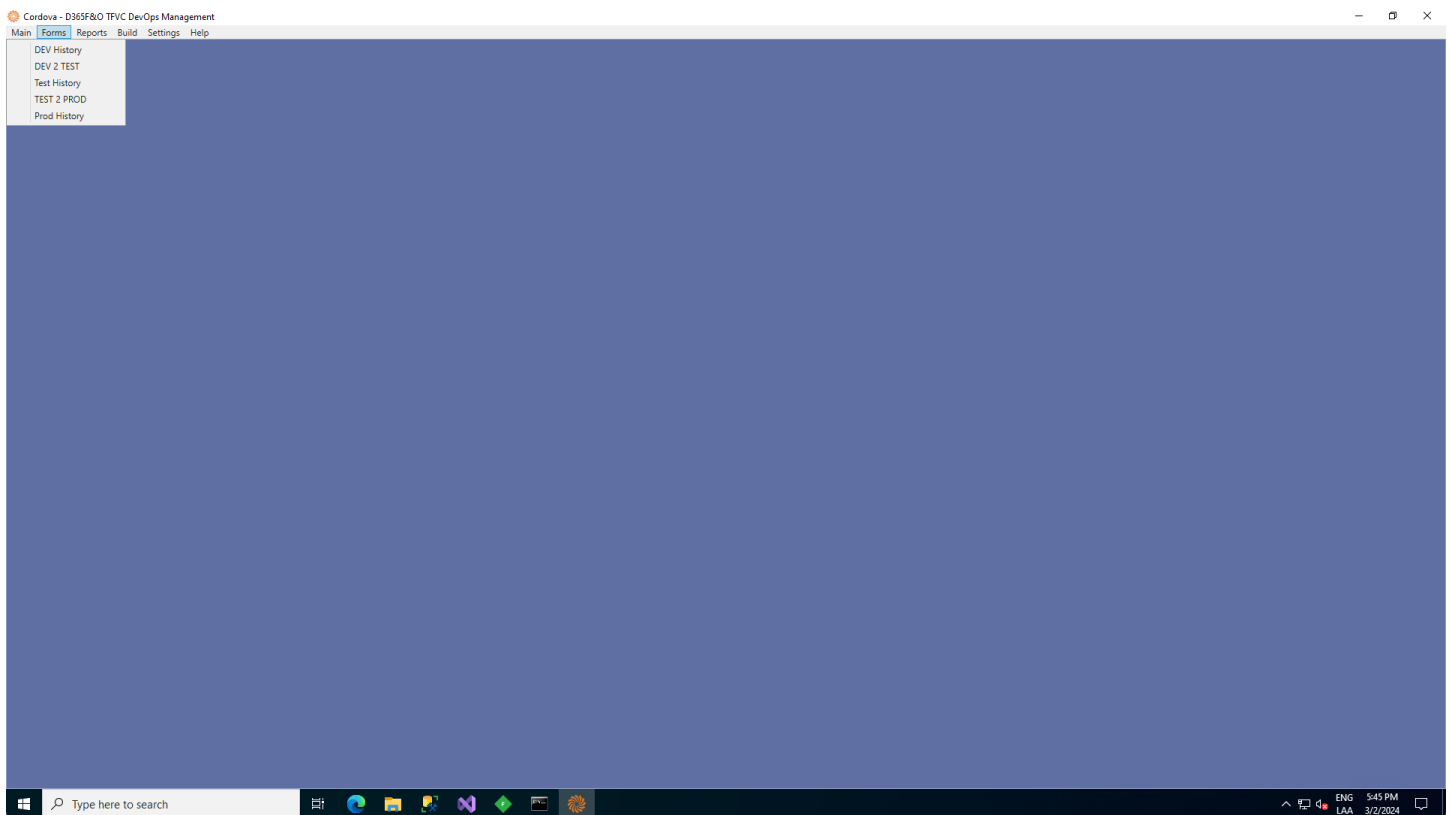
Cordova TFVC Management System

Source branch: The source branch of the merge, or the main branch for history.

Target branch: The destination branch. Only required for type **Merge candidates**.

Baseless: When you want to perform baseless merges mark this checkbox.






Once the forms have been configured they will show up in the **Forms** menu.

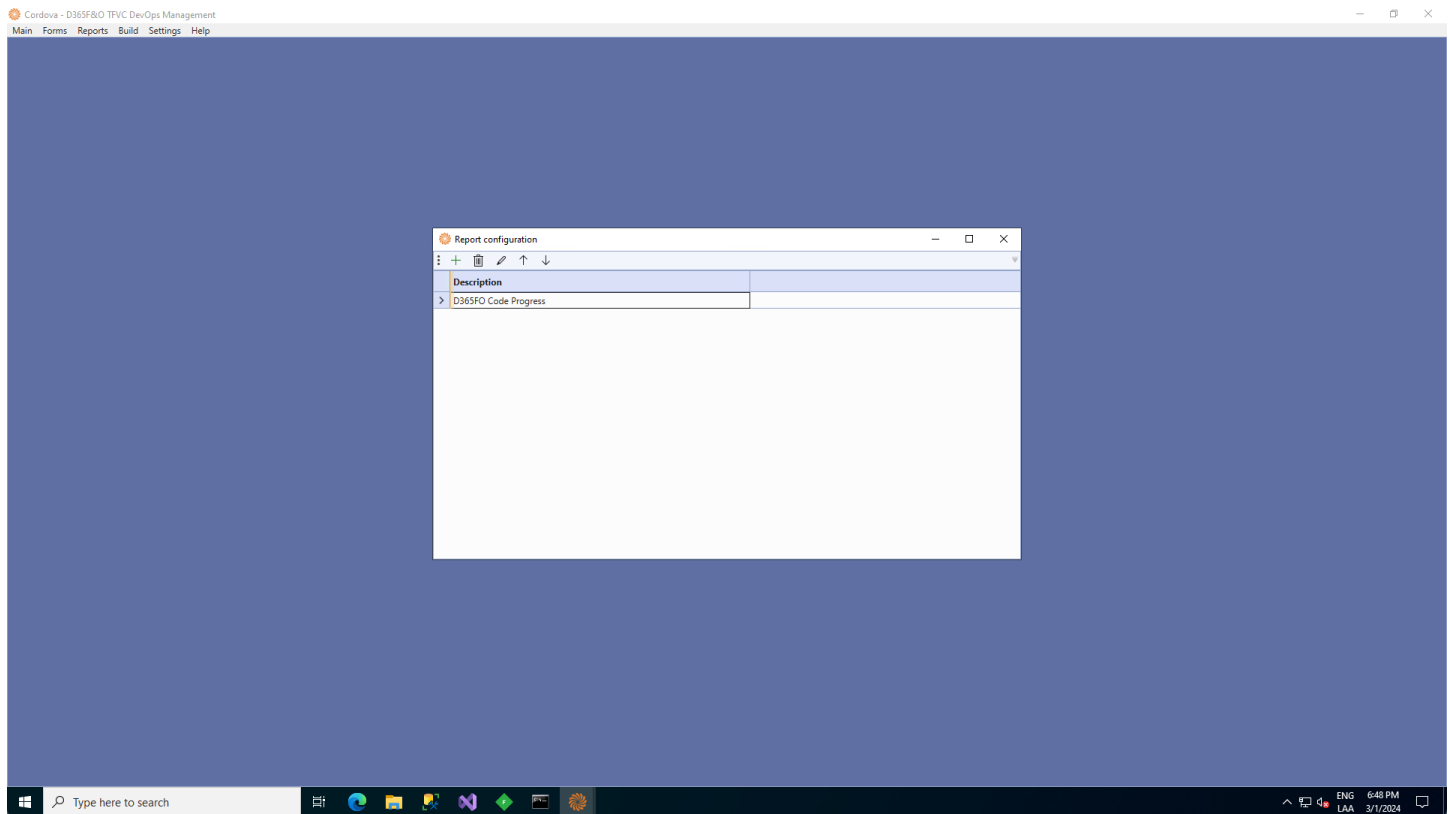


Report Configuration

The Cordova system can produce excel style reports of changeset history and merge candidates that you can distribute to your team. The system can store several reports.

Toolbar buttons:

-  Add a report configuration line.
-  Remove a report configuration line.
-  Edit selected report configuration line (go to report details).
-  Move line up.
-  Move line down.







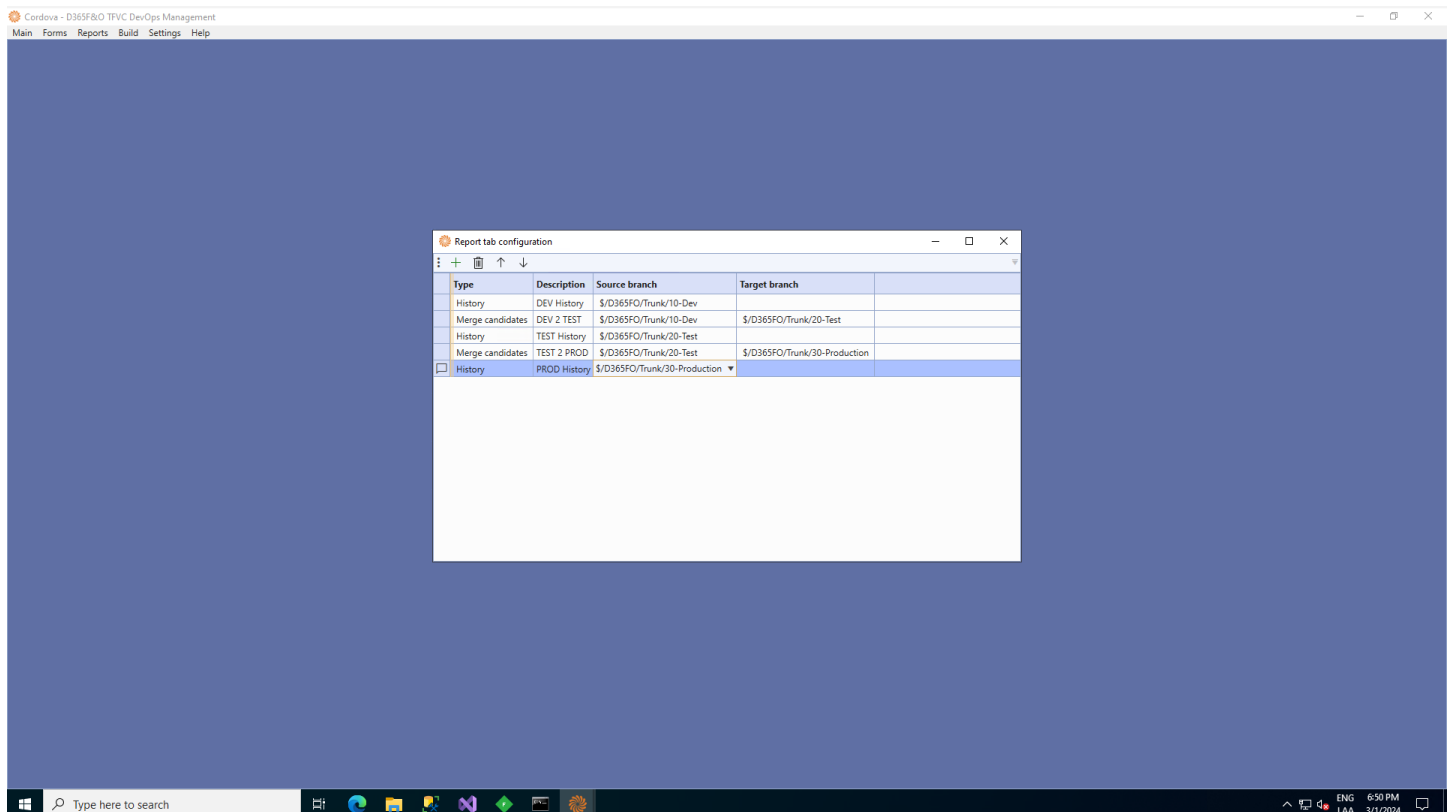
Grid controls:

Description: A short description used to identify the report.

Once you are in the report details dialog you can specify the tabs that the report will have. A tab can be a history or a merge candidates tab.

Toolbar buttons:

-  Add a report tab configuration line.
-  Remove a report tab configuration line.
-  Move line up.
-  Move line down.



Grid controls:

Type: History or Merge Candidates.

Description: A short description.

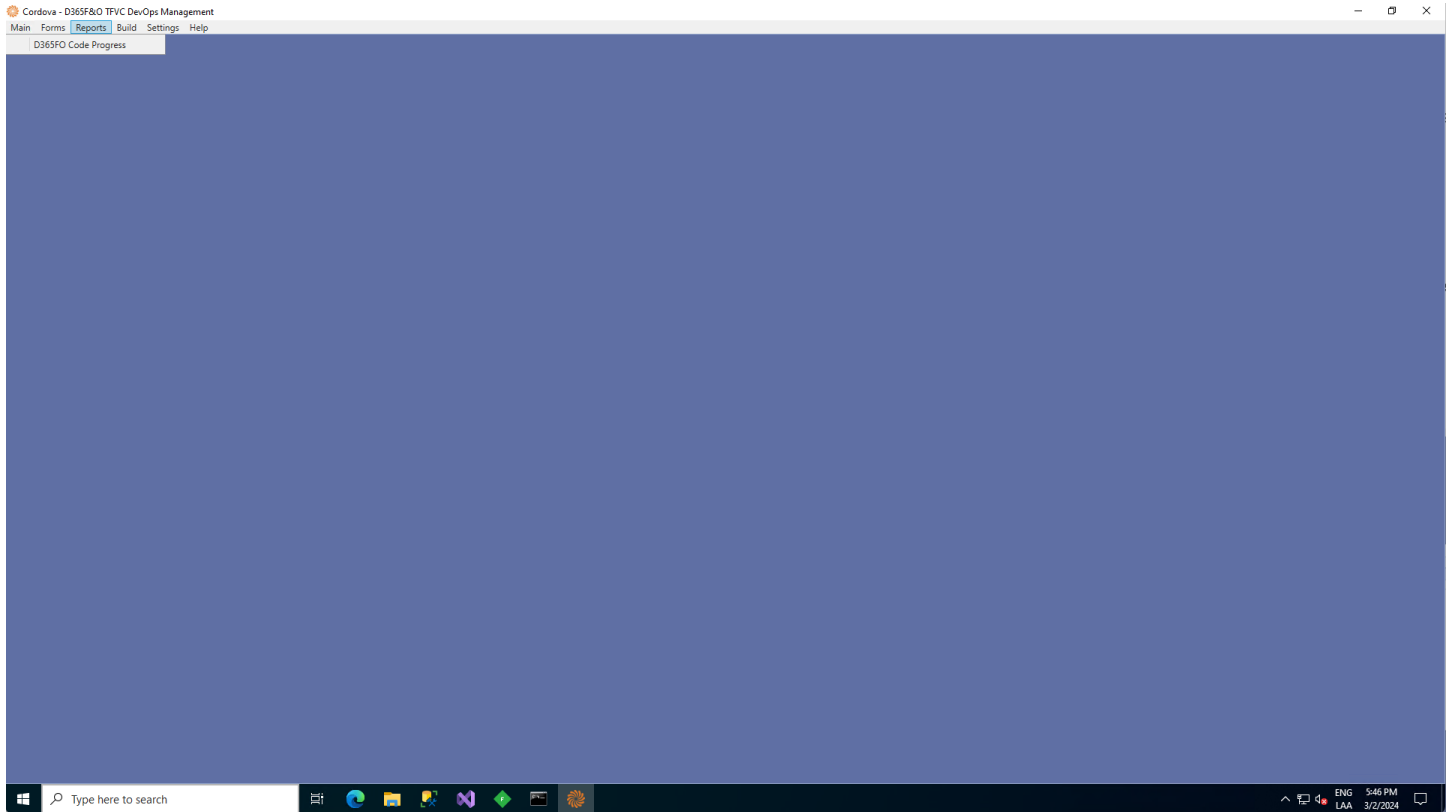
Source branch: The source branch of the merge or the branch for history.

Target branch: The destination branch. Only required for type Merge Candidates.



Cordova TFVC Management System





Once the reports have been configured, they will show up in the Reports menu.

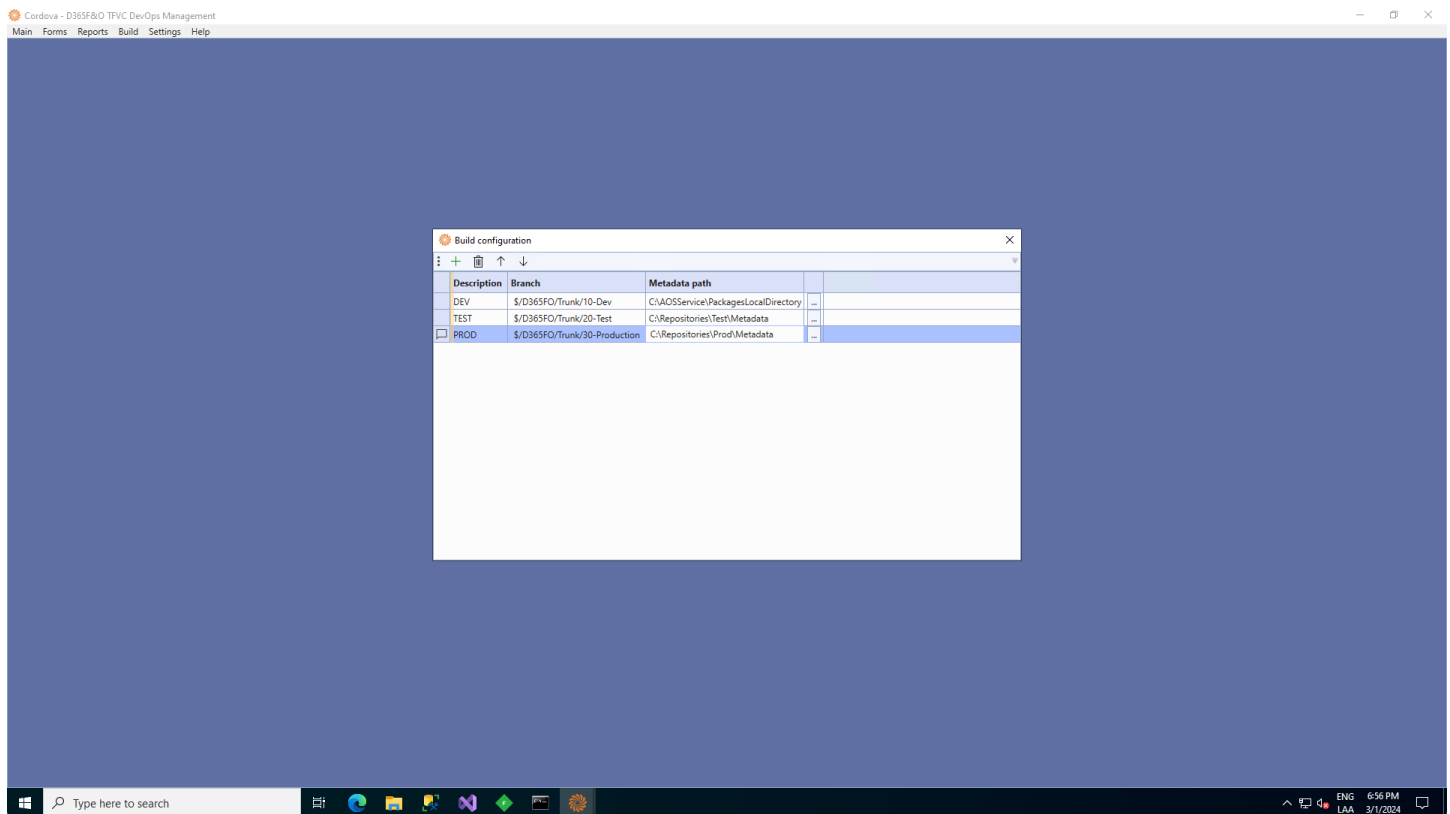


Build Configuration

After doing merge operations you can check to see if a branch is compiling correctly. You can do this for several branches using a single one-box. The build configuration allows you to specify which branches you wish to compile.

Toolbar buttons:

-  Add a build configuration line.
-  Remove a build configuration line.
-  Move line up.
-  Move line down.



Grid controls:

Description: A short description that will be visible in the top menu area.

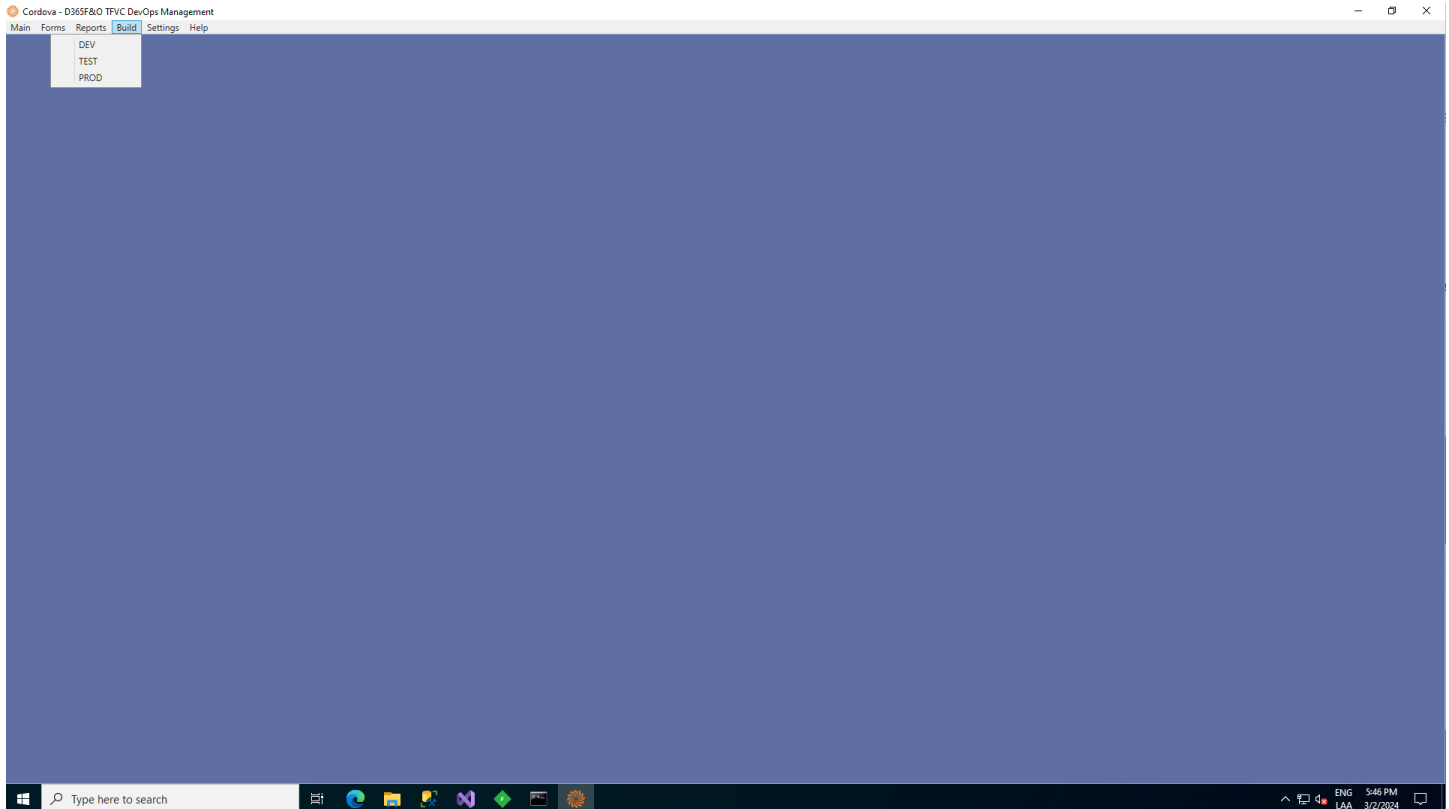
Branch: The branch that will be compiled. Note: only metadata branches can be compiled. Project branches do not contain x++ code.



Cordova TFVC Management System

Metadata path: The local path to the metadata path.

Once the builds have been configured they will show up in the Build menu.



Troubleshooting

If your Cordova instance will not start because of a configuration error, you can start the application in maintenance mode.

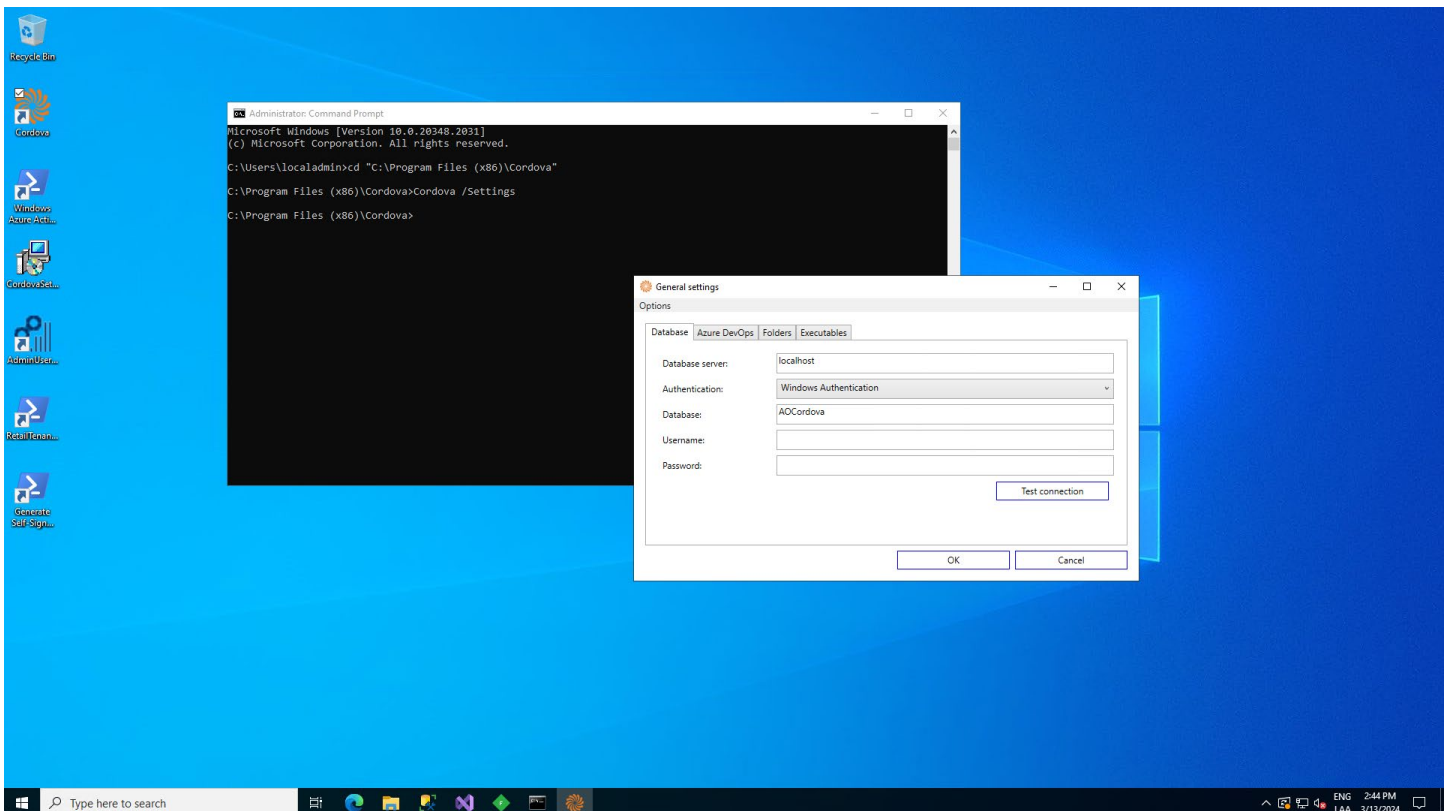
Open a command prompt with elevated privileges. Type:

cd "C:\Program Files (x86)\Cordova"

Which is generally the path to the Cordova executable, unless it was modified when installing the product. Then type:

Cordova /Settings

Cordova will then take you to the General Settings screen.



When you are finished doing the corrections you can close the dialog, all your new settings will be saved, and start Cordova.

Forms

History Forms

A history form will allow you to view the history of the changesets for a given branch and perform changes to the check in comments or change the associated Azure DevOps tasks.

Toolbar buttons:

- Changeset properties.
- Files in changeset.
- Link changeset(s) to work item.
- Rollback changesets.
- Pending changes.
- Copy as table.
- Refresh

Cordova - D365F&O TFVC DevOps Management

Main Forms Reports Build Settings Help

DEV history

Work items and changesets Edit View

Changeset id	Owner	Created date time	Changeset comments	Work item id	Description	Assigned to	SME	Status	Tags
1781	john.lucas@atlantic-oak.com	2/26/2024 8:42:31 PM	4812: E-mail templates - Remove log file from Azure Storage	4812	E-mail templates	John Lucas		Closed	
1781	john.lucas@atlantic-oak.com	2/26/2024 9:28:08 PM	4826: Audit ConfigFile and WebFile - Clarify when logging certain types	4826	Audit ConfigFile and WebFile	John Lucas		Closed	
1778	john.lucas@atlantic-oak.com	2/26/2024 7:52:18 PM	4828: DaaS 1.2.21 install	4828	DaaS 1.2.21 install	John Myers		Closed	
1775	john.lucas@atlantic-oak.com	2/23/2024 8:02:18 PM	4828: Create an extension on WorkItemCommentTrackingTable - Remove the update method code	4828	Create an extension on WorkItemCommentTrackingTable	John Lucas		Closed	
1771	john.lucas@atlantic-oak.com	2/23/2024 10:28:12 PM	4829: Log cleanup	4829	Log cleanup	John Lucas		Closed	
1769	john.lucas@atlantic-oak.com	2/23/2024 8:08:33 PM	4828: Create an extension on WorkItemCommentTrackingTable	4828	Create an extension on WorkItemCommentTrackingTable	John Lucas		Closed	
1761	john.lucas@atlantic-oak.com	2/19/2024 2:11:23 PM	4827: Dynamics 2017 1.2 deploy - Add new file	4827	Dynamics 2017 1.2 deploy	John Myers		Closed	
1761	john.lucas@atlantic-oak.com	2/19/2024 2:16:48 PM	4827: Dynamics 2017 1.2 deploy - Remove 2017	4827	Dynamics 2017 1.2 deploy	John Myers		Closed	
1761	john.lucas@atlantic-oak.com	2/19/2024 10:35:33 PM	4826: Audit ConfigFile and WebFile - Disable change tracking for log tables	4826	Audit ConfigFile and WebFile	John Lucas		Closed	
1761	john.lucas@atlantic-oak.com	2/19/2024 9:26:20 PM	4826: Audit ConfigFile and WebFile - Check in missing object	4826	Audit ConfigFile and WebFile	John Lucas		Closed	
1754	john.lucas@atlantic-oak.com	2/19/2024 9:05:42 PM	4826: Audit ConfigFile and WebFile	4826	Audit ConfigFile and WebFile	John Lucas		Closed	
1748	john.lucas@atlantic-oak.com	2/15/2024 5:21:28 PM	4825: Dynamics 2017 - Add new license file	4825	Dynamics 2017 Deploy	John Myers		Closed	
1748	john.lucas@atlantic-oak.com	2/15/2024 4:59:47 PM	4825: Dynamics 2017 - Remove old license file	4825	Dynamics 2017 Deploy	John Myers		Closed	
1739	john.lucas@atlantic-oak.com	2/13/2024 8:40:45 PM	4824: Remove application folders	4824	Remove application folders	John Myers		Closed	
1732	john.lucas@atlantic-oak.com	2/13/2024 4:16:21 PM	4823: Add Dynamics 2017 files to the tree	4823	Dynamics 2017 Deploy	John Myers		Closed	
1731	john.lucas@atlantic-oak.com	2/13/2024 4:08:38 PM	4823: Remove Dynamics 2017 files	4823	Dynamics 2017 Deploy	John Myers		Closed	
1729	john.lucas@atlantic-oak.com	2/13/2024 4:08:21 PM	4818: Send purchase order as mail attachment - Order items in log by created date time descending	4818	Send purchase order as mail attachment	John Lucas		Closed	
1716	john.lucas@atlantic-oak.com	2/13/2024 7:52:32 PM	4823: DaaS 1.2.24 install New 2023	4823	DaaS 1.2.24 Deploy	John Myers		Closed	
1714	john.lucas@atlantic-oak.com	2/13/2024 4:13:32 PM	4822: Initial add of T2E files	4822	T2E T2E Enhancement addition	John Myers		Closed	
1711	john.lucas@atlantic-oak.com	2/13/2024 4:46:38 PM	3846: RM and Open PO Lines Report Changes - corrected code that broke with T2E RM	3846	RM and Open PO Lines Report Changes	John Lucas		Closed	
1705	john.lucas@atlantic-oak.com	2/13/2024 6:12:27 PM	4823: New mail sending system - Error handling in the send mail method	4823	New mail sending system	John Lucas		Closed	
1704	john.lucas@atlantic-oak.com	2/13/2024 2:23:21 PM	4823: New mail sending system - Solution file checks	4823	New mail sending system	John Lucas		Closed	
1702	john.lucas@atlantic-oak.com	2/13/2024 7:39:19 PM	4821: Dynamics 2017 Deploy - Catch missing files	4821	Dynamics 2017 Deploy	John Myers		Closed	
1700	john.lucas@atlantic-oak.com	2/13/2024 3:38:52 PM	3762: Send invoice as mail attachment - Include new methods into controller, add pattern to form	3762	Send invoice as mail attachment	John Lucas		Closed	
1697	john.lucas@atlantic-oak.com	2/13/2024 8:04:52 PM	4821: Dynamics 2017 1.1 - Add new files	4821	Dynamics 2017 1.1 Deploy	John Myers		Closed	
1696	john.lucas@atlantic-oak.com	2/13/2024 5:28:23 PM	4821: Dynamics 2017 1.1 Deploy - Remove 2017	4821	Dynamics 2017 1.1 Deploy	John Myers		Closed	
1688	john.lucas@atlantic-oak.com	2/28/2023 11:28:17 PM	4819: Add reason code to inventory adjustment report - Add role specific to the report	4819	Add reason code to inventory adjustment report	John Lucas		Closed	
1682	john.lucas@atlantic-oak.com	2/28/2023 2:13:29 PM	4797: Vendor Collaboration - Use e-mail templates	4797	Vendor Collaboration	John Lucas		Closed	
1681	john.lucas@atlantic-oak.com	2/28/2023 1:58:32 PM	4819: Add reason code to inventory adjustment report - Include privilege and extended status	4819	Add reason code to inventory adjustment report	John Lucas		Closed	
1680	john.lucas@atlantic-oak.com	2/23/2023 5:32:02 PM	4818: Send purchase order as mail attachment - Setting code copy with new version	4818	Send purchase order as mail attachment	John Lucas		Closed	
1679	john.lucas@atlantic-oak.com	2/23/2023 5:21:39 PM	3762: Send invoice as mail attachment - security privilege improvement	3762	Send invoice as mail attachment	John Lucas		Closed	
1678	john.lucas@atlantic-oak.com	2/23/2023 5:19:14 PM	4818: Send purchase order as mail attachment - Logging	4818	Send purchase order as mail attachment	John Lucas		Closed	
1677	john.lucas@atlantic-oak.com	2/19/2023 3:53:09 PM	3762: Send invoice as mail attachment - Added debug code	3762	Send invoice as mail attachment	John Lucas		Closed	
1676	john.lucas@atlantic-oak.com	2/19/2023 3:53:48 PM	3762: Send invoice as mail attachment - remove debug code	3762	Send invoice as mail attachment	John Lucas		Closed	
1668	john.lucas@atlantic-oak.com	2/13/2023 1:16:17 PM	4823: Dynamics Analytics Scanner - Add new	4823	Dynamics Analytics Deployment	John Myers		New	
1667	john.lucas@atlantic-oak.com	2/13/2023 1:14:31 PM	4823: Dynamics Analytics Scanner Deploy	4823	Dynamics Analytics Deployment	John Myers		New	
1661	john.lucas@atlantic-oak.com	2/13/2023 9:02:37 PM	4819: Add reason code to inventory adjustment report	4819	Add reason code to inventory adjustment report	John Lucas		Closed	
1661	john.lucas@atlantic-oak.com	2/13/2023 3:34:42 PM	3762: Send invoice as mail attachment - Allow business an action form to send multiple mails	3762	Send invoice as mail attachment	John Lucas		Closed	
1661	john.lucas@atlantic-oak.com	2/13/2023 3:34:18 PM	3762: Send invoice as mail attachment - Setting code outside the loop as a possible fix	3762	Send invoice as mail attachment	John Lucas		Closed	

DEV history (S/HFC-D365FO/Trunk/10-Dev)



Grid columns:

Changeset Id: The id of the changeset.

Owner: username of the person that created the changeset.

Created date time: changeset creation date/time.

Changeset comments: changeset comments.

Work item id: the associated work item id.

Description: the work item description.

Assigned to: person responsible for the changeset.

SME: subject matter expert.










Status: status.

Tags: tags associated with the work item.

Merge Candidate Forms

A merge candidates form will allow you to merge two branches.

Toolbar buttons:

-  Changeset properties.
-  Files in changeset.
-  Link changeset(s) to work item.
-  Copy as table.
-  Preview merge script.
-  Batch merge/check in.
-  Remove changeset(s) from list.
-  Force merge.
-  Refresh.

Cordova - D365F&O TFVC DevOps Management

Main Forms Reports Build Settings Help

DEV to TEST merge candidates

Work items and changesets Edit Merge View

Changeset id	Owner	Created date time	Changeset comments	Work item id	Description	Assigned to	SME	Status	Tags
1719	john.luciano@hmc.com	4/10/2021 8:42:45 PM	4824 - Remove application folders	4824	Update application to include DM 1.2 Enhancements	Janis Meyers		Closed	
1487	john.luciano@hmc.com	4/10/2021 2:48:27 PM	4801 - Dynamics 2016 1.1 Update - Remove old version	4801	Dynamics 2016 1.1 update	Janis Meyers		Closed	
1488	john.luciano@hmc.com	4/10/2021 2:48:27 PM	4787 - Vendor Collaboration - update on label file	4787	Vendor Collaboration	John Luciano		Closed	
1483	john.luciano@hmc.com	4/10/2021 1:19:39 PM	284701 - rollback 1.0.1 - rollback labels	284701	RegionalCoverageGettingSet Entity Issues	John Luciano		Closed	
1482	john.luciano@hmc.com	4/10/2021 1:19:39 PM	4787 - Vendor Collaboration - label file check in	4787	Vendor Collaboration	John Luciano		Closed	
1481	john.luciano@hmc.com	4/10/2021 1:12:19 PM	284701 - rollback 1.0.1	284701	RegionalCoverageGettingSet Entity Issues	John Luciano		Closed	
1422	patric.jordan@hmc.com	10/11/2020 4:46:39 PM	3836 - Dynamics upgrade	3836	Dynamics 2017 upgrade			New	
1425	patric.jordan@hmc.com	10/10/2020 9:07:16 PM	3836 - Delete from Dev branch again	3836	Dynamics 2017 upgrade			New	
1427	patric.jordan@hmc.com	10/10/2020 8:27:41 PM	3836 - V3 Dynamics	3836	Dynamics 2017 upgrade			New	
1426	patric.jordan@hmc.com	10/10/2020 8:27:41 PM	3836 - Remove all Dynamics objects - initial	3836	Dynamics 2017 upgrade			New	
1423	john.luciano@hmc.com	10/6/2020 1:13:29 PM	3836 - Remove all Dynamics objects	3836	Dynamics 2017 upgrade			New	
1357	john.luciano@hmc.com	4/10/2021 5:57:17 PM	3822 - RegionalCoverageGettingSet Entity Issues	3822	RegionalCoverageGettingSet Entity Issues	John Luciano		Closed	
1356	john.luciano@hmc.com	4/10/2021 10:49:31 PM	3822 - Create fields on insert transfer entities	3822	Create fields on insert transfer entities	John Luciano		Closed	
1364	john.luciano@hmc.com	10/22/2021 7:28:17 PM	3812 - Pending and active item prices V2 entity issues	3812	Pending and active item prices V2 entity issues	John Luciano		Closed	
1251	john.luciano@hmc.com	6/10/2021 8:50:44 PM	3813 Item/Item/Customer Master Data Validation - Changed group key length	3813	Item/Item/Customer Master Data Validation	John Luciano		Closed	
1250	john.luciano@hmc.com	6/10/2021 8:52:32 PM	3813 Item/Item/Customer Master Data Validation - Entity name correction	3813	Item/Item/Customer Master Data Validation	John Luciano		Closed	
1249	john.luciano@hmc.com	6/10/2021 8:58:16 PM	3813 Item/Item/Customer Master Data Validation - Query preview	3813	Item/Item/Customer Master Data Validation	John Luciano		Closed	
1247	john.luciano@hmc.com	6/10/2021 8:52:05 PM	3813 Item/Item/Customer Master Data Validation - Added query preview screen partial	3813	Item/Item/Customer Master Data Validation	John Luciano		Closed	
1245	john.luciano@hmc.com	6/10/2021 8:38:17 PM	3813 Item/Item/Customer Master Data Validation - Query grid changes	3813	Item/Item/Customer Master Data Validation	John Luciano		Closed	
1241	john.luciano@hmc.com	6/10/2021 6:35:49 PM	3813 Item/Item/Customer Master Data Validation - Read	3813	Item/Item/Customer Master Data Validation	John Luciano		Closed	
1239	john.luciano@hmc.com	10/26/2021 10:19:42 PM	3813 Item/Item/Customer Master Data Validation - Partial 2	3813	Item/Item/Customer Master Data Validation	John Luciano		Closed	
1217	john.luciano@hmc.com	10/14/2021 12:16:11 PM	3813 Item/Item/Customer Master Data Validation - Partial 1	3813	Item/Item/Customer Master Data Validation	John Luciano		Closed	
1174	john.luciano@hmc.com	4/10/2021 9:57:58 PM	3172 - Exception error handling - New version	3172	Exception error handling	Janis Meyers		Deploy to TEST	
1151	john.luciano@hmc.com	4/15/2021 11:19:28 PM	3171 - Promotions import optimization - Phase 1	3171	Promotions import optimization	Janis Meyers		Closed	
880	john.luciano@hmc.com	6/10/2021 7:49:58 PM	100-88032 To work order status	0					
880	john.luciano@hmc.com	1/27/2020 2:28:20 AM	484 - Removal of MRO folder from Dev 1.0/2.0/3	0					
638	john.luciano@hmc.com	11/22/2019 10:21:02 PM	JIP 11/22/19 Normal Entity Checker for Michael Reschman and SMMBCInventoryItem based on	0					
612	john.luciano@hmc.com	11/25/2019 11:18:59 PM	JIP 11/25/19 Object checker for aggregate res, SMMBCInventoryItem based on JIP	0					
610	john.luciano@hmc.com	11/25/2019 10:56:05 PM	JIP 11/25/19 Object checker for previous InventoryItem based on JIP	0					
603	john.luciano@hmc.com	11/22/2019 9:38:16 PM	JIP 11/22/19 Custom ID entities for David in JIP and Michael internally	0					

DEV to TEST merge candidates (S:\HFC-D365FO\Trunk\10-Dev to S:\HFC-D365FO\Trunk\20-Test)



Grid columns:

Changeset Id: The id of the changeset.

Owner: username of the person that created the changeset.

Created date time: changeset creation date/time.

Changeset comments: changeset comments.

Work item id: the associated work item id.

Description: the work item description.

Assigned to: person responsible for the changeset.

SME: subject matter expert.

Status: status.

Tags: tags associated with the work item.

Changeset properties

Displays a right pane with the files that are contained in the changeset.

The **changeset properties** command can be invoked in history and merge candidate forms by clicking this icon:



The screenshot displays the 'DEV history' window of the Cordova TFVC Management System. The main area shows a table of changesets with columns for 'Changeset id', 'Owner', 'Created date time', 'Changeset comments', 'Work item id', and 'Description'. The changeset 1677 is highlighted in blue. To the right, a pane titled 'Changeset: 1677' shows the 'Info' and 'Comment' sections. The 'Info' section lists the files included in the changeset, such as 'HFC_InvoiceEmailProcessor.xml' and 'HFC_Labels-en-US.label.txt'. The 'Comment' section contains the text: '3762 - Send invoice as mail attachment - Added debug code'.

Files in changeset

Displays a simplified list of all the files in the changeset or changesets that have been selected by marking the checkbox on the left.

The **files in changeset** command can be invoked in history and merge candidate forms by clicking this icon:



Toolbar buttons:



Copy as table.

Link changeset(s) to work item

Links a changeset or changesets to an existing work item.

The **link changeset(s) to work item** command can be invoked in history and merge candidate forms by clicking this icon:

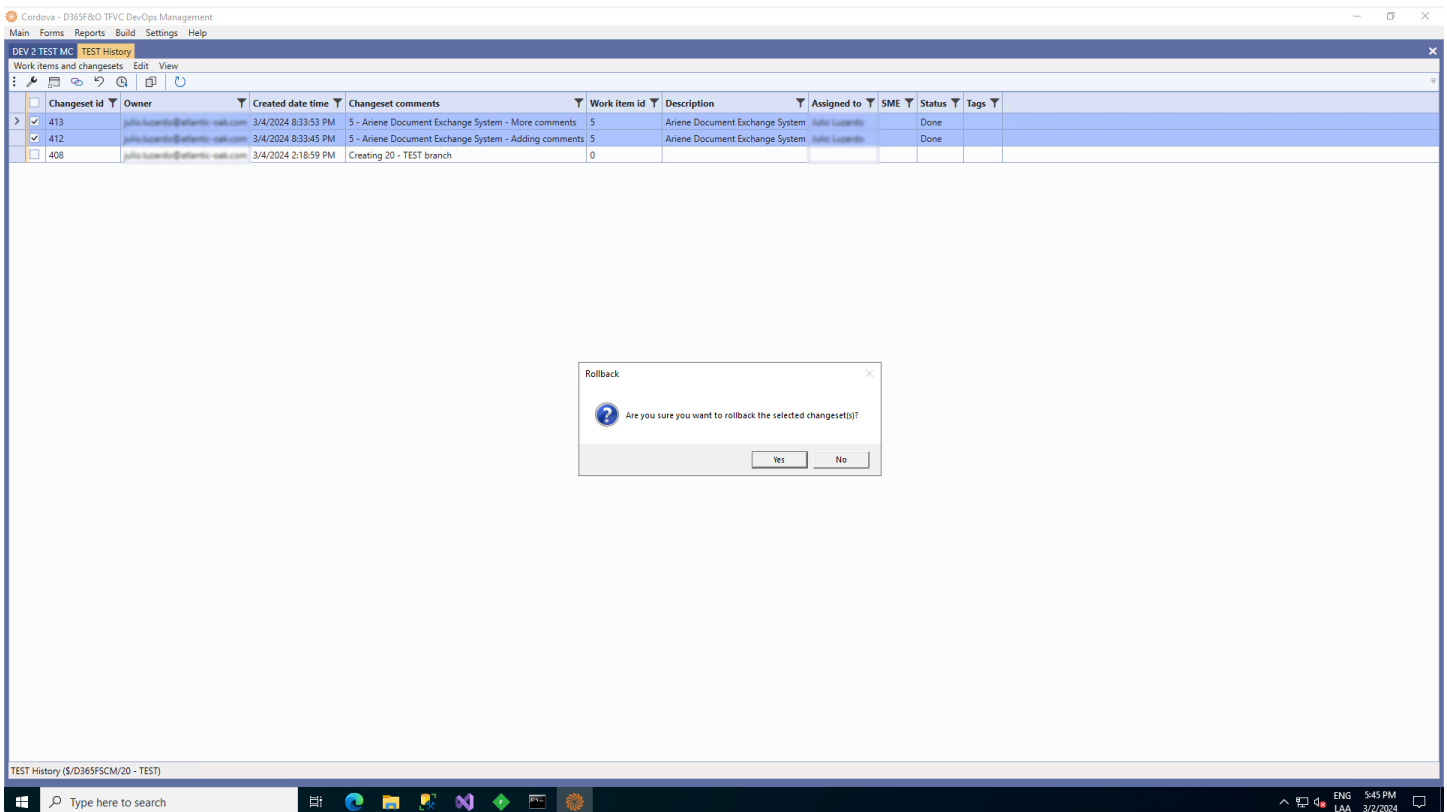


The screenshot shows the 'DEV to TEST merge candidates' window in the Cordova TFVC Management System. The window displays a table with columns for 'Changeset id', 'Owner', 'Created date time', 'Changeset comments', 'Work item id', 'Description', 'Assigned to', 'SME', 'Status', and 'Tags'. A dialog box titled 'Link changeset(s) to work item' is overlaid on the table. The dialog box contains two input fields: 'Changeset(s) id(s):' with the value '1483,1484,1487,1739' and 'Work item id:'. The dialog box has 'OK' and 'Cancel' buttons.

Rollback changesets

Rolls back changesets that have been selected by marking the checkbox on the left.

The **rollback changesets** command can be invoked in history forms by clicking this icon:

The screenshot shows a web browser window displaying the 'TEST History' page. A table lists three changesets with checkboxes in the first column. The first two checkboxes are checked. A 'Rollback' dialog box is open in the center of the screen, asking for confirmation to rollback the selected changesets.

Changeset id	Owner	Created date time	Changeset comments	Work item id	Description	Assigned to	SME	Status	Tags
<input checked="" type="checkbox"/> 413	ajlu.luzarr@atlantic-oak.com	3/4/2024 8:33:53 PM	5 - Ariene Document Exchange System - More comments	5	Ariene Document Exchange System	Ajlu Luzarr		Done	
<input checked="" type="checkbox"/> 412	ajlu.luzarr@atlantic-oak.com	3/4/2024 8:33:45 PM	5 - Ariene Document Exchange System - Adding comments	5	Ariene Document Exchange System	Ajlu Luzarr		Done	
<input type="checkbox"/> 408	ajlu.luzarr@atlantic-oak.com	3/4/2024 2:18:59 PM	Creating 20 - TEST branch	0					

Rollback

Are you sure you want to rollback the selected changeset(s)?

Yes No

Once you initiate a rollback operation, the system will prompt you to confirm the rollback of the selected changesets.



Once the rollbacks have been finished the system will show you the merge log of the operation.

The screenshot shows a web application window titled "Cordova - D365F&O TFVC DevOps Management". The main content area displays a table with the following data:

Log id	Batch id	Created date time	Source branch	Source Changeset id	Target branch	Target Changeset id	Comments	Work item id	Work item description	Merge type	Merged	Checked in
3	2	3/4/2024 8:35:32 PM	TEST	413	TEST	414	ROLLBACK CS413 - 5 - Ariene Document Exchange System - More comments	5	Ariene Document Exchange System	Rollback	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	2	3/4/2024 8:35:34 PM	TEST	412	TEST	415	ROLLBACK CS412 - 5 - Ariene Document Exchange System - Adding comments	5	Ariene Document Exchange System	Rollback	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

The system will automatically check in the comments for the rollback. A "ROLLBACK" text in capital letters followed by CS and the changeset number that was rolled back plus the original description of the changeset.

Pending changes

Displays a right pane with a hierarchical list of all the pending changes in the workspace.

The **pending changes** command can be invoked in history forms by clicking this icon:



The screenshot shows the 'DEV history' table with columns for 'Changeset id', 'Owner', 'Created date time', 'Changeset comments', and 'Work item id'. The table lists various changesets with their respective owners and timestamps. On the right, the 'Pending changes' pane is open, showing a hierarchical list of pending changes under the path 'C:\Users\Admin72104631\source\repos\ADO4819_AddReasonCodeToInvAdj'. The list includes a file named 'ADO4819_AddReasonCodeToInvAdj.sln'.

Changeset id	Owner	Created date time	Changeset comments	Work item id
1789	john.luciani@thornettfoodcompany.com	2/28/2024 8:43:23 PM	4812 - E-mail templates - Remove log file from Azure Storage	4812
1791	john.luciani@thornettfoodcompany.com	2/28/2024 8:28:08 PM	4838 - Audit CurfTable and NewState - Clarify when logging certain types	4838
1778	prayer@thornettfoodcompany.com	2/9/2024 7:52:18 PM	4838 [Dropt 1,2,25] install	4838
1775	john.luciani@thornettfoodcompany.com	2/1/2024 8:55:18 PM	4838 - Create an extension on WorkflowCommentFacingTable - Remove the update method code	4838
1771	john.luciani@thornettfoodcompany.com	1/30/2024 10:38:13 PM	4838 - Log cleanup	4838
1769	john.luciani@thornettfoodcompany.com	1/24/2024 4:28:53 PM	4838 - Create an extension on WorkflowCommentFacingTable	4838
1761	john.luciani@thornettfoodcompany.com	1/16/2024 3:11:20 PM	4837 [Dropt 2401,1] install - Add new files	4837
1760	john.luciani@thornettfoodcompany.com	1/16/2024 3:10:40 PM	4837 [Dropt 2401,1,2] deploy - Remove 2401	4837
1759	john.luciani@thornettfoodcompany.com	1/11/2024 10:25:03 PM	4838 - Audit CurfTable and NewState - Disable change tracking for log tables	4838
1758	john.luciani@thornettfoodcompany.com	1/11/2024 9:35:03 PM	4838 - Audit CurfTable and NewState - Check in missing object	4838
1754	john.luciani@thornettfoodcompany.com	1/11/2024 9:05:42 PM	4838 - Audit CurfTable and NewState	4838
1749	prayer@thornettfoodcompany.com	1/5/2024 5:01:28 PM	4825 [Dropt 2401] - Add new license file	4825
1748	john.luciani@thornettfoodcompany.com	1/5/2024 4:58:47 PM	4825 [Dropt 2401] - Remove old license file	4825
1739	john.luciani@thornettfoodcompany.com	1/1/2024 8:42:45 PM	4828 - Remove application folders	4828
1732	prayer@thornettfoodcompany.com	1/1/2024 4:16:21 PM	4825 - Add [Dropt 2401] files to the tree	4825
1731	prayer@thornettfoodcompany.com	1/1/2024 4:04:08 PM	4825 - Remove [Dropt 2310] files	4825
1729	john.luciani@thornettfoodcompany.com	12/26/2023 4:58:31 PM	4818 - Send purchase order as mail attachment - Order items in log by created date time descending	4818
1716	prayer@thornettfoodcompany.com	12/7/2023 7:52:02 PM	4822 [Dropt 1,2,24] install Nov 2023	4822
1714	prayer@thornettfoodcompany.com	12/7/2023 4:13:30 PM	4822 [Dropt 1,2,24] install Nov 2023	4822
1711	john.luciani@thornettfoodcompany.com	11/29/2023 4:46:00 PM	3846 - Hit and Open PD Lines Report Changes - corrected code that broke with 10.0.38	3846
1705	john.luciani@thornettfoodcompany.com	11/8/2023 8:13:27 PM	4825 - New mail sending system - Error handling in the send mail method	4825
1704	john.luciani@thornettfoodcompany.com	11/7/2023 2:23:21 PM	4825 - New mail sending system - Solution file checker	4825
1702	prayer@thornettfoodcompany.com	11/6/2023 7:39:19 PM	4821 [Dropt 2310] Deploy - Catch missing files	4821
1700	john.luciani@thornettfoodcompany.com	11/6/2023 3:38:52 PM	3762 - Send invoice as mail attachment - include two methods into controller, add pattern to form	3762
1687	prayer@thornettfoodcompany.com	11/5/2023 8:04:52 PM	4821 - [Dropt 2310 1,1] - Add new files	4821
1686	prayer@thornettfoodcompany.com	10/31/2023 3:28:23 PM	4821 - [Dropt 2310 1,1] deploy - Remove 2307	4821
1680	john.luciani@thornettfoodcompany.com	10/24/2023 11:25:07 PM	4819 - Add reason code to inventory adjustment report - Add site specific to the report	4819
1682	john.luciani@thornettfoodcompany.com	10/24/2023 2:13:20 PM	4787 - Vendor Collaboration - Use e-mail templates	4787
1681	john.luciani@thornettfoodcompany.com	10/24/2023 1:58:52 PM	4819 - Add reason code to inventory adjustment report - include privilege and extended duties	4819
1680	john.luciani@thornettfoodcompany.com	10/23/2023 6:52:02 PM	4819 - Send purchase order as mail attachment - testing code comp with new version	4819
1679	john.luciani@thornettfoodcompany.com	10/23/2023 5:21:39 PM	3762 - Send invoice as mail attachment - security privilege improvement	3762
1678	john.luciani@thornettfoodcompany.com	10/23/2023 5:18:51 PM	4818 - Send purchase order as mail attachment - Logging	4818
1677	john.luciani@thornettfoodcompany.com	10/19/2023 3:53:09 PM	3762 - Send invoice as mail attachment - Added debug code	3762
1676	john.luciani@thornettfoodcompany.com	10/13/2023 5:55:48 PM	3762 - Send invoice as mail attachment - remove debug code	3762
1668	prayer@thornettfoodcompany.com	10/12/2023 1:15:31 PM	4822 [Dropt 2310] Analytics license - Add new	4822
1667	prayer@thornettfoodcompany.com	10/12/2023 1:14:31 PM	4822 [Dropt 2310] Analytics license deploy	4822
1665	john.luciani@thornettfoodcompany.com	10/9/2023 9:02:37 PM	4819 - Add reason code to inventory adjustment report	4819
1663	john.luciani@thornettfoodcompany.com	10/5/2023 3:36:14 PM	3762 - Send invoice as mail attachment - Allow buttons on admin form to send multiple mails	3762

Copy as table

Copies an HTML table representation of the changesets that have been selected by marking the checkbox on the left. Useful for communicating code promotions to your team as the HTML table can be pasted into e-mails.

The **copy as table** command can be invoked in several types of forms forms by clicking this icon:



Test deployment - Message (HTML)

From: julio@bootes.co
To: someone@somecompany.com
Subject: Test deployment

Hi,

These changesets have been promoted to UAT and will soon be deployed:

Log id	Batch id	Created date time	Source branch	Source changeset id	Target branch	Target changeset id	Comments	Work item id	Work item description	Merge type
6025	22	10/04/23 14:16:23	DEV	1661	TEST	1662	3762 - Send invoice as mail attachment - Taking code outside the loop as a possible fix	3762	Send invoice as mail attachment	Merge
7025	23	10/05/23 15:37:21	DEV	1663	TEST	1664	3762 - Send invoice as mail attachment - Allow buttons on admin form to send multiple mails	3762	Send invoice as mail attachment	Merge
8025	24	10/10/23 21:56:27	DEV	1665	TEST	1666	4819 - Add reason code to inventory adjustment report	4819	Add reason code to inventory adjustment report	Merge

Best Regards,

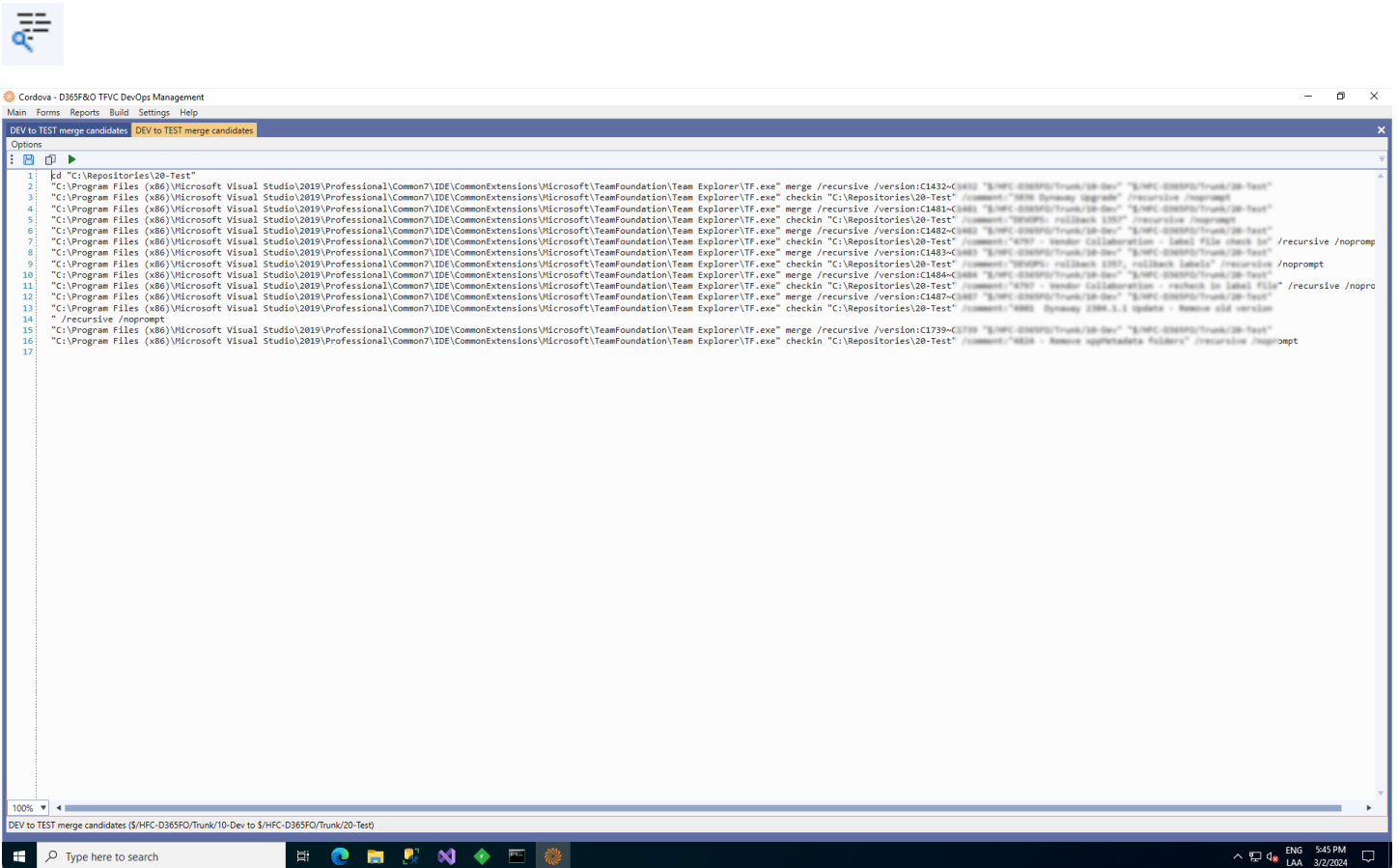
Julio Luzardo

10685 Hazelnurst Drive Suite 826424
Houston, Texas 77043
O: +1 (470) 582-0912 Ext. 456
M: +1 (470) 552-0002
<http://www.bootes.co>

Preview merge script

Allows you to preview a TF.exe merge and check in script that you can copy or save. Useful if you want to run the script using TF.exe.

The **preview merge script** command can be invoked in merge candidate forms by clicking this icon:



Merge

Allows you to quickly merge and check in a changeset or several changesets at once.

The **merge** command can be invoked in merge candidate forms by clicking this icon:



The screenshot shows the 'DEV 2 TEST Merge Candidates' window. The table lists various changesets with columns for 'Changeset id', 'Owner', 'Created date time', 'Changeset comments', 'Work item id', 'Description', 'Assigned to', 'SME', 'Status', and 'Tags'. A 'Merge' dialog box is open over the table, asking 'Are you sure you want to merge the selected changesets?' with 'Yes' and 'No' buttons.

Changeset id	Owner	Created date time	Changeset comments	Work item id	Description	Assigned to	SME	Status	Tags
471		3/10/2024 2:58:14 PM	5 - Ariene Document Exchange System - Create workflows that execute immediately upon triggering events.	5	Ariene Document Exchange System			Done	
470		3/10/2024 2:57:38 PM	5 - Ariene Document Exchange System - Restrict access to specific fields based on user roles.	5	Ariene Document Exchange System			Done	
469		3/10/2024 2:56:40 PM	5 - Ariene Document Exchange System - Retrieve data using FetchXML queries.	5	Ariene Document Exchange System			Done	
468		3/10/2024 2:55:31 PM	3 - Cordova - Define new entities to store custom data.	3	Cordova			Done	
467		3/10/2024 2:54:48 PM	5 - Ariene Document Exchange System - Modify existing business process flows to match business requirements.	5	Ariene Document Exchange System			Done	
466		3/10/2024 2:50:30 PM	3 - Cordova - Modify the layout and behavior of entity forms using the form designer.	3	Cordova			Done	
465		3/10/2024 2:49:32 PM	3 - Cordova - Add custom buttons to the ribbon for specific actions.	3	Cordova			Done	
464		3/10/2024 2:48:44 PM	5 - Ariene Document Exchange System - Develop custom reports using SQL Server Reporting Services (SSRS).	5	Ariene Document Exchange System			Done	
463		3/10/2024 2:47:56 PM	5 - Ariene Document Exchange System - Modify system views to display relevant data.	5	Ariene Document Exchange System			Done	
462		3/10/2024 2:46:58 PM	3 - Cordova - Customize the web client using JavaScript and HTML.	3	Cordova			Done	
461		3/10/2024 2:46:17 PM	5 - Ariene Document Exchange System - Validate data before saving records.	5	Ariene Document Exchange System			Done	
460		3/10/2024 2:45:23 PM	3 - Cordova - Use Azure Logic Apps, Functions, or Service Bus for integration.	3	Cordova			Done	
459		3/10/2024 2:44:02 PM	3 - Cordova - Add JavaScript code to forms for client-side logic.	3	Cordova			Done	
458		3/10/2024 2:43:10 PM	5 - Ariene Document Exchange System - Develop custom workflows for specific scenarios.	5	Ariene Document Exchange System			Done	
457		3/10/2024 2:42:16 PM	5 - Ariene Document Exchange System - Define ownership and sharing rules.	5	Ariene Document Exchange System			Done	
456		3/10/2024 2:41:26 PM	3 - Cordova - Design and configure business process flows.	3	Cordova			Done	
455		3/10/2024 2:40:42 PM	5 - Ariene Document Exchange System - Write plugins to extend system capabilities.	5	Ariene Document Exchange System			Done	
454		3/10/2024 2:39:51 PM	5 - Ariene Document Exchange System - Define custom actions for specific tasks.	5	Ariene Document Exchange System			Done	
453		3/10/2024 2:11:51 PM	5 - Ariene Document Exchange System - Organize users into groups.	5	Ariene Document Exchange System			Done	
452		3/10/2024 2:11:02 PM	5 - Ariene Document Exchange System - Arrange navigation pane items.	5	Ariene Document Exchange System			Done	
451		3/10/2024 2:10:10 PM	5 - Ariene Document Exchange System - Connect Dynamics 365 to external systems.	5	Ariene Document Exchange System			Done	
450		3/10/2024 2:09:26 PM	3 - Cordova - Design personalized views and dashboards for users.	3	Cordova			Done	
449		3/10/2024 2:08:32 PM	5 - Ariene Document Exchange System - Define business rules to enforce data validation and logic.	5	Ariene Document Exchange System			Done	
448		3/10/2024 2:04:02 PM	5 - Ariene Document Exchange System - Set up email templates for communication.	5	Ariene Document Exchange System			Done	
447		3/10/2024 2:02:36 PM	5 - Ariene Document Exchange System - Set up parent-child relationships for security.	5	Ariene Document Exchange System			Done	
446		3/10/2024 2:01:45 PM	3 - Cordova - Design and configure business process flows for guided user interactions.	3	Cordova			Done	
445		3/10/2024 2:00:43 PM	5 - Ariene Document Exchange System - Configure lookup fields to display related records.	5	Ariene Document Exchange System			Done	
444		3/10/2024 1:59:21 PM	5 - Ariene Document Exchange System - Create custom reports using FetchXML queries.	5	Ariene Document Exchange System			Done	
443		3/10/2024 1:58:06 PM	5 - Ariene Document Exchange System - Automate processes using Power Automate.	5	Ariene Document Exchange System			Done	
442		3/10/2024 1:55:06 AM	3 - Cordova - Define custom actions to perform specific tasks.	3	Cordova			Done	
441		3/10/2024 11:53:00 AM	5 - Ariene Document Exchange System - Design a custom workflow to automate business processes.	5	Ariene Document Exchange System			Done	
440		3/10/2024 11:47:09 AM	5 - Ariene Document Exchange System - Prevent duplicate records.	5	Ariene Document Exchange System			Done	
439		3/10/2024 11:45:20 AM	5 - Ariene Document Exchange System - Develop plugins for data synchronization.	5	Ariene Document Exchange System			Done	
438		3/10/2024 11:36:58 AM	3 - Cordova - Enable auditing and track changes to records.	3	Cordova			Done	
437		3/10/2024 11:35:32 AM	5 - Ariene Document Exchange System - Modify quick create forms for efficiency.	5	Ariene Document Exchange System			Done	
436		3/10/2024 11:33:55 AM	5 - Ariene Document Exchange System - Define multi-select fields.	5	Ariene Document Exchange System			Done	
435		3/10/2024 11:32:31 AM	3 - Cordova - Set up security roles and configure access rights.	3	Cordova			Done	
434		3/10/2024 11:31:21 AM	3 - Cordova - Use web services or custom connectors to integrate with other applications.	3	Cordova			Done	
433		3/10/2024 11:28:08 AM	5 - Ariene Document Exchange System - Design mobile-friendly forms.	5	Ariene Document Exchange System			Done	

The system will prompt you: **“Are you sure you want to merge the selected changesets?”**.

Cordova TFVC Management System

If the system detects a conflict during the merge, you will be presented with this screen.

Origin changeset	Destination changeset	Suggested action	File name	Server path
441	408	Keep origin file	AODXSendFileInfo.xml	\$/D365FSCM/20 - TEST/Main/Metadata/ATLODEX/Av/Class/

It will suggest which file to keep and mark the corresponding button in green. You can also click on the **View the differences** button or use a merge tool to do a three-way merge (Merge changes in merge tool).



Cordova TFVC Management System

Once the operation has completed successfully you will be presented with a merge log screen.

Cordova - D365F&O TFVC DevOps Management

Main Forms Reports Build Settings Help

DEV 2 TEST Merge Candidates Merge log

Log id	Batch id	Created date time	Source branch	Source Changeset id	Target branch	Target Changeset id	Comments	Work item id	Work item description	Merge type	Merged	Checked in
1004	7	3/10/2024 3:29:34 PM	DEV	441		472	5 - Ariene Document Exchange System - Design a custom workflow to automate business processes.	5	Ariene Document Exchange System	Merge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1005	7	3/10/2024 3:29:37 PM	DEV	445		473	5 - Ariene Document Exchange System - Configure lookup fields to display related records.	5	Ariene Document Exchange System	Merge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1006	7	3/10/2024 3:29:40 PM	DEV	446		474	3 - Cordova - Design and configure business process flows for guided user interactions.	3	Cordova	Merge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1007	7	3/10/2024 3:29:44 PM	DEV	448		475	5 - Ariene Document Exchange System - Set up email templates for communication.	5	Ariene Document Exchange System	Merge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1008	7	3/10/2024 3:29:46 PM	DEV	450		476	3 - Cordova - Design personalized views and dashboards for users.	3	Cordova	Merge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1009	7	3/10/2024 3:29:49 PM	DEV	453		477	5 - Ariene Document Exchange System - Organize users into business units and teams.	5	Ariene Document Exchange System	Merge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1010	7	3/10/2024 3:29:53 PM	DEV	461		478	5 - Ariene Document Exchange System - Validate data before saving records.	5	Ariene Document Exchange System	Merge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1011	7	3/10/2024 3:29:55 PM	DEV	465		479	3 - Cordova - Add custom buttons to the ribbon for specific actions	3	Cordova	Merge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1012	7	3/10/2024 3:29:58 PM	DEV	466		480	3 - Cordova - Modify the layout and behavior of entity forms using the form designer.	3	Cordova	Merge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1013	7	3/10/2024 3:30:01 PM	DEV	469		481	5 - Ariene Document Exchange System - Retrieve data using FetchXML queries.	5	Ariene Document Exchange System	Merge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

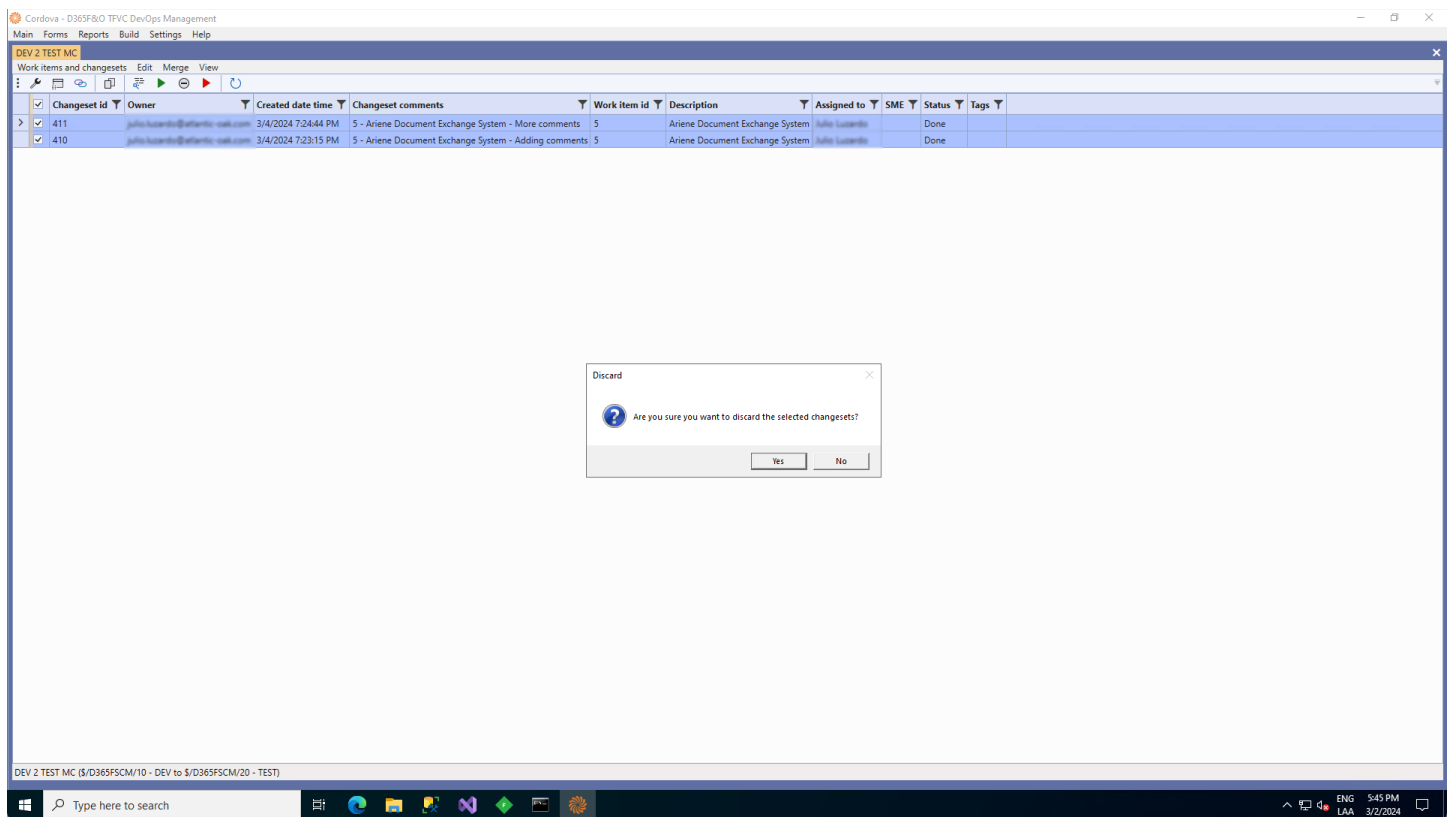
Type here to search

ENG 3:30 PM
LAA 3/10/2024

Remove changeset(s) from list

Removes the marked changesets from the merge candidates list.

The **remove changeset(s) from list** command can be invoked in merge candidate forms by clicking this icon:

The screenshot shows a web application window titled 'Cordova - D365F&O TFVC DevOps Management'. The main content area displays a table of changesets. Two rows are selected, and a 'Discard' dialog box is open in the foreground, asking 'Are you sure you want to discard the selected changesets?' with 'Yes' and 'No' buttons.

Changeset id	Owner	Created date time	Changeset comments	Work item id	Description	Assigned to	SME	Status	Tags
411	julio.luzardo@atlantic-oak.com	3/4/2024 7:24:44 PM	5 - Ariene Document Exchange System - More comments	5	Ariene Document Exchange System	julio.luzardo	julio.luzardo	Done	
410	julio.luzardo@atlantic-oak.com	3/4/2024 7:23:15 PM	5 - Ariene Document Exchange System - Adding comments	5	Ariene Document Exchange System	julio.luzardo	julio.luzardo	Done	

The system will prompt you: **“Are you sure you want to discard the selected changesets?”**.



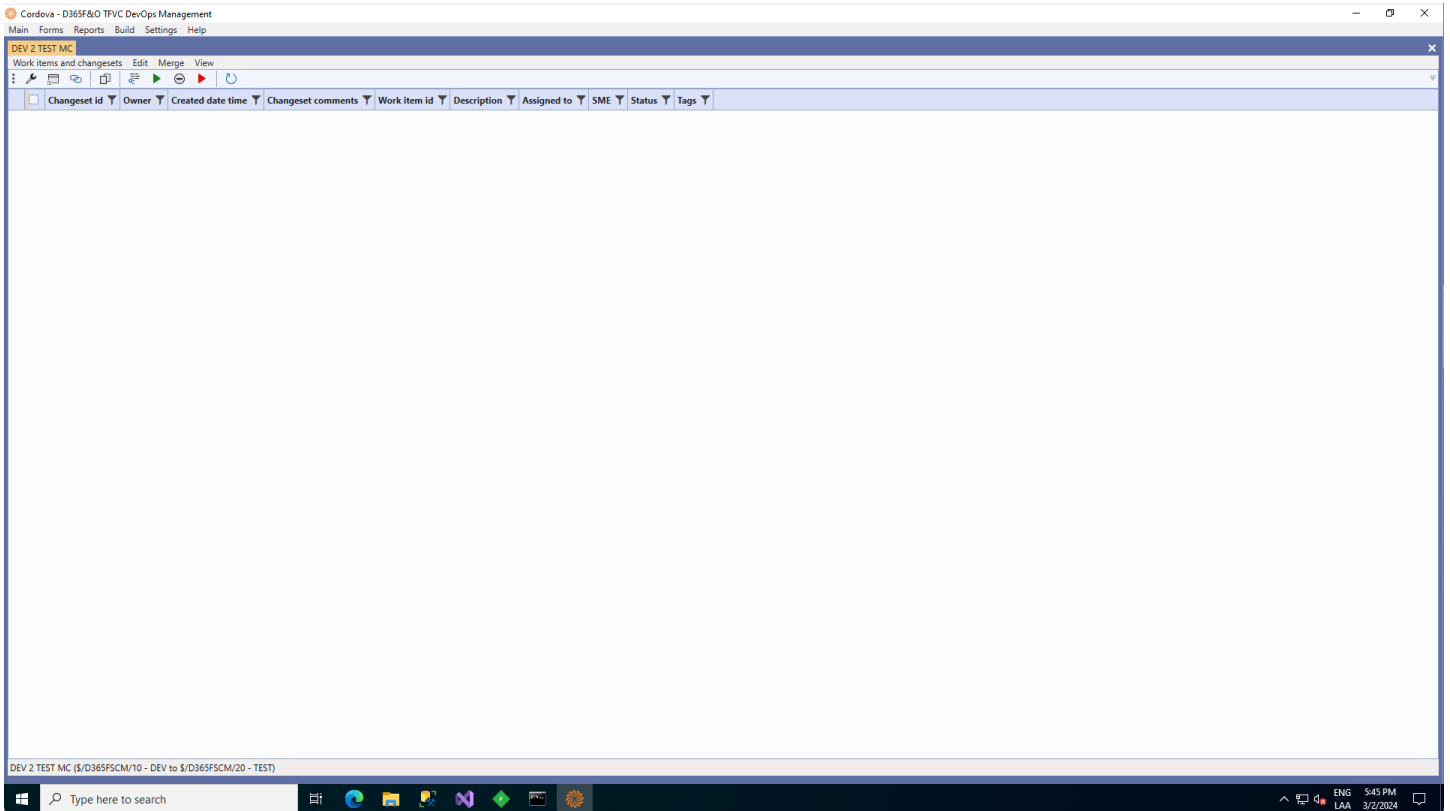
Cordova TFVC Management System

Once the operation has completed successfully you will be presented with a merge log screen.

Log id	Batch id	Created date time	Source branch	Source Changeset id	Target branch	Target Changeset id	Comments	Work item id	Work item description	Merge type	Merged	Checked in
5	3	3/4/2024 9:24:33 PM	DEV	410	TEST	416	DISCARDED CS410 - 5 - Ariene Document Exchange System - Adding comments	5	Ariene Document Exchange System	Discard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	3	3/4/2024 9:24:35 PM	DEV	411	TEST	417	DISCARDED CS411 - 5 - Ariene Document Exchange System - More comments	5	Ariene Document Exchange System	Discard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



You can check the merge candidates screen and verify that your changesets are no longer in the list.



Force merge

Force merges the changesets that are marked. A force merge can be used to promote changesets that have been discarded. Force merge is available from the merge log and is also available from any merge candidates form.

The **force merge** command can be invoked in merge candidate forms and the merge log by clicking this icon:



Log id	Batch id	Created date time	Source branch	Source Changeset id	Target branch	Target Changeset id	Comments	Work item id	Work item description	Merge type	Merged	Checked in
1	1	3/4/2024 8:33:39 PM	DEV	410		412	5 - Ariene Document Exchange System - Adding comments	5	Ariene Document Exchange System	Merge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	1	3/4/2024 8:33:51 PM	DEV	411		413	5 - Ariene Document Exchange System - More comments	5	Ariene Document Exchange System	Merge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	2	3/4/2024 8:35:32 PM	TEST	413		414	ROLLBACK CS413 - 5 - Ariene Document Exchange System - More comments	5	Ariene Document Exchange System	Rollback	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	2	3/4/2024 8:35:34 PM	TEST	412		415	ROLLBACK CS412 - 5 - Ariene Document Exchange System - Adding comments	5	Ariene Document Exchange System	Rollback	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	3	3/4/2024 9:24:33 PM	DEV	410		416	DISCARDED CS410 - 5 - Ariene Document Exchange System - Adding comments	5	Ariene Document Exchange System	Discard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	3	3/4/2024 9:24:35 PM	DEV	411		417	DISCARDED CS411 - 5 - Ariene Document Exchange System - More comments	5	Ariene Document Exchange System	Discard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	4	3/5/2024 9:09:11 AM	DEV	410		419	DISCARDED CS410 - 5 - Ariene Document Exchange System - Adding comments (forced)	5	Ariene Document Exchange System	Force	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8	4	3/5/2024 9:09:14 AM	DEV	411		420	DISCARDED CS411 - 5 - Ariene Document Exchange System - More comments (forced)	5	Ariene Document Exchange System	Force	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

The system will prompt you to confirm that you want to force merge the marked changesets.



Cordova TFVC Management System

Cordova - D365F&O TFVC DevOps Management
Main Forms Reports Build Settings Help

Merge log Merge log

Edit Merge

Log id	Batch id	Created date time	Source branch	Source Changeset id	Target branch	Target Changeset id	Comments	Work item id	Work item description	Merge type	Merged	Checked in
7	4	3/5/2024 9:09:11 AM	DEV	410		419	DISCARDED CS410 - 5 - Ariene Document Exchange System - Adding comments (forced)	5	Ariene Document Exchange System	Force	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8	4	3/5/2024 9:09:14 AM	DEV	411		420	DISCARDED CS411 - 5 - Ariene Document Exchange System - More comments (forced)	5	Ariene Document Exchange System	Force	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

After the force merge is complete the system will bring up a merge log window with the resulting operation.



Cordova TFVC Management System

Cordova - D365F&O TFVC Dev-Ops Management

Main Forms Reports Build Settings Help

TEST History

Work items and changesets Edit View

Changeseid	Owner	Created date time	Changeset comments	Work item id	Description	Assigned to	SME	Status	Tags
420		3/5/2024 9:09:14 AM	DISCARDED CS:411 - 5 - Ariene Document Exchange System - More comments (forced)	5	Ariene Document Exchange System			Done	
419		3/5/2024 9:09:11 AM	DISCARDED CS:410 - 5 - Ariene Document Exchange System - Adding comments (forced)	5	Ariene Document Exchange System			Done	
417		3/4/2024 9:24:34 PM	DISCARDED CS:411 - 5 - Ariene Document Exchange System - More comments	5	Ariene Document Exchange System			Done	
416		3/4/2024 9:24:32 PM	DISCARDED CS:410 - 5 - Ariene Document Exchange System - Adding comments	5	Ariene Document Exchange System			Done	
415		3/4/2024 8:35:34 PM	ROLLBACK CS:412 - 5 - Ariene Document Exchange System - Adding comments	5	Ariene Document Exchange System			Done	
414		3/4/2024 8:35:31 PM	ROLLBACK CS:413 - 5 - Ariene Document Exchange System - More comments	5	Ariene Document Exchange System			Done	
413		3/4/2024 8:33:53 PM	5 - Ariene Document Exchange System - More comments	5	Ariene Document Exchange System			Done	
412		3/4/2024 8:33:45 PM	5 - Ariene Document Exchange System - Adding comments	5	Ariene Document Exchange System			Done	
408		3/4/2024 2:18:59 PM	Creating 20 - TEST branch	0					

TEST History (\$/D365FSCM/20 - TEST)

Type here to search

ENG 3:45 PM
LAA 3/2/2024

If you decide to promote changesets after they have been discarded, this is the way to do so.

Reports

Cordova can produce excel reports that contain a snapshot of the history and merge candidates of the repositories in your system. Team members that do not have access to Visual Studio or Cordova, can use them to determine the promotions that have taken place or should take place.

History Tabs

A history tab will show the complete history for a repository.

ID	User	Date	Comment	Status	Tags	Assigned TSME #1	Work Item Description
1783	Julio Lizarde	2/28/2024	4822 E-mail templates - Remove temp file from Azure Storage	Closed		Julio Lizarde	4822 E-mail templates
1781	Julio Lizarde	2/28/2024	4826 Audit CustTable and VendTable - Clarify when logging certain types	Closed		Julio Lizarde	4826 Audit CustTable and VendTable
1778	meysmith	2/26/2024	4830 ShoAP 1.2.25 install	Closed		Janice Meyers	4830 ShoAP 1.2.25 update
1775	Julio Lizarde	2/26/2024	4828 Create an extension on WorkflowCommentTrackingTable - Remove the update method code	Closed		Julio Lizarde	4828 Create an extension on WorkflowCommentTrackingTable
1771	Julio Lizarde	2/26/2024	4829 Log cleanup	Closed		Julio Lizarde	4829 Log cleanup
1769	Julio Lizarde	2/26/2024	4828 Create an extension on WorkflowCommentTrackingTable	Closed		Julio Lizarde	4828 Create an extension on WorkflowCommentTrackingTable
1761	Julio Lizarde	2/26/2024	4827 Dynamics 2401.1 install Add new files	Closed		Janice Meyers	4827 Dynamics 2401.1.2 deploy
1760	Julio Lizarde	2/26/2024	4827 Dynamics 2401.2 deploy Remove 2401	Closed		Janice Meyers	4827 Dynamics 2401.2.2 deploy
1758	Julio Lizarde	2/21/2024	4826 Audit CustTable and VendTable - Double change tracking for tag tables	Closed		Julio Lizarde	4826 Audit CustTable and VendTable
1756	Julio Lizarde	2/21/2024	4826 Audit CustTable and VendTable - Check in missing object	Closed		Julio Lizarde	4826 Audit CustTable and VendTable
1754	Julio Lizarde	2/21/2024	4826 Audit CustTable and VendTable	Closed		Julio Lizarde	4826 Audit CustTable and VendTable
1749	meysmith	2/5/2024	4825 Dynamics 2401 - Add new license file	Closed		Janice Meyers	4825 Dynamics 2401 Deploy
1748	meysmith	2/5/2024	4825 Dynamics 2401 - Remove old license file	Closed		Janice Meyers	4825 Dynamics 2401 Deploy
1739	Julio Lizarde	2/5/2024	4824 Remove appMtdata folders	Closed		Janice Meyers	4824 Update pipelines to include DM TUI Enhancements
1732	meysmith	2/5/2024	4825 Add Dynamics 2401 files to the tree	Closed		Janice Meyers	4825 Dynamics 2401 Deploy
1731	meysmith	2/5/2024	4825 Remove Dynamics 2330 files	Closed		Janice Meyers	4825 Dynamics 2401 Deploy
1729	Julio Lizarde	12/26/2023	4828 Send purchase order as mail attachment - Order items in log by created date time descending	Closed		Julio Lizarde	4828 Send purchase order as mail attachment
1716	meysmith	12/7/2023	4823 ShoAP 1.2.24 install New 2023	Closed		Janice Meyers	4823 ShoAP 1.2.24 deploy
1714	meysmith	12/7/2023	4822 Initial add of TUI files	Closed		Janice Meyers	4822 DM TUI Enhancements addition
1711	Julio Lizarde	11/20/2023	3846 Rtl and Open PD Lines Report Changes - corrected code that broke with SSRS 24	Closed		Julio Lizarde	3846 Rtl and Open PD Lines Report Changes
1705	Julio Lizarde	11/6/2023	4823 New mail sending system - Error handling in the send mail method	Closed		Julio Lizarde	4823 New mail sending system
1704	Julio Lizarde	11/7/2023	4823 New mail sending system - Solution file creation	Closed		Julio Lizarde	4823 New mail sending system
1702	meysmith	11/6/2023	4821 Dynamics 2330 Deploy - Catch missing files	Closed		Janice Meyers	4821 Dynamics 2330.1.1 deploy
1700	Julio Lizarde	11/6/2023	3762 Send invoice as mail attachment - Include tax methods into controller, add pattern to form	Closed		Julio Lizarde	3762 Send invoice as mail attachment
1697	meysmith	11/6/2023	4821 Dynamics 2330.1.1 - Add new files	Closed		Janice Meyers	4821 Dynamics 2330.1.1 deploy
1696	meysmith	10/31/2023	4821 Dynamics 2330.1.1 deploy - Remove 2307	Closed		Janice Meyers	4821 Dynamics 2330.1.1 deploy
1690	Julio Lizarde	10/24/2023	4823 Add reason code to inventory adjustment report - Add role specific to the report	Closed		Julio Lizarde	4823 Add reason code to inventory adjustment report
1682	Julio Lizarde	10/24/2023	4787 Vendor Collaboration - Use a mail templates	Closed		Julio Lizarde	4787 Vendor Collaboration
1681	Julio Lizarde	10/24/2023	4823 Add reason code to inventory adjustment report - include privilege and extend duties	Closed		Julio Lizarde	4823 Add reason code to inventory adjustment report
1680	Julio Lizarde	10/23/2023	4828 Send purchase order as mail attachment - testing code using with new version	Closed		Julio Lizarde	4828 Send purchase order as mail attachment
1679	Julio Lizarde	10/23/2023	3762 Send invoice as mail attachment - security privilege improvement	Closed		Julio Lizarde	3762 Send invoice as mail attachment
1678	Julio Lizarde	10/23/2023	4828 Send purchase order as mail attachment - logging	Closed		Julio Lizarde	4828 Send purchase order as mail attachment
1677	Julio Lizarde	10/19/2023	3762 Send invoice as mail attachment - Added debug code	Closed		Julio Lizarde	3762 Send invoice as mail attachment
1676	Julio Lizarde	10/19/2023	3762 Send invoice as mail attachment - remove debug code	Closed		Julio Lizarde	3762 Send invoice as mail attachment
1668	meysmith	10/12/2023	4820 Dynamics Analytics license - Add new	New		Janice Meyers	4820 Dynamics Analytics deployment
1667	meysmith	10/12/2023	4820 Dynamics Analytics license deploy	New		Janice Meyers	4820 Dynamics Analytics deployment
1665	Julio Lizarde	10/7/2023	4823 Add reason code to inventory adjustment report	Closed		Julio Lizarde	4823 Add reason code to inventory adjustment report
1663	Julio Lizarde	10/7/2023	3762 Send invoice as mail attachment - Allow buttons on admin form to send multiple mails	Closed		Julio Lizarde	3762 Send invoice as mail attachment
1661	Julio Lizarde	10/6/2023	3762 Send invoice as mail attachment - Taking code outside the loop as a possible fix	Closed		Julio Lizarde	3762 Send invoice as mail attachment



Merge Candidates Tabs

A merge candidates tab will show which changesets can be promoted from the origin repository to the target repository.

Cordova - D365F&O TFVC DevOps Management

Main Forms Reports Build Settings Help

Mainreport2024-03-04T15:39:10.xlsx

Chageset	User	Date	Chageset comment	Status	Tags	Assigned To	SME #1	Work Item	Work Item Description
4	1759 julia.luzardo@homesteadfoodcompany.com	3/3/2024	4624 - Remove update/data folders	Closed		Janice Meyers		4624	update pipelines to include DM T&L Enhancements
5	1487 jmeyers@homesteadfoodcompany.com	4/10/2023	4601 Dyanway 2304.1.1 Update - Remove old version	Closed		Janice Meyers		4601	Dyanway 2304.1.1 update
6	1484 julia.luzardo@homesteadfoodcompany.com	4/9/2023	4797 Vendor Collaboration - recheck in label file	Closed		Julia Luzardo		4797	Vendor Collaboration
7	1483 julia.luzardo@homesteadfoodcompany.com	4/9/2023	DEVOPS rollback 1357, rollback labels	Closed		Julia Luzardo		3623	RegionCoverageSettingsV2 Entity Issues
8	1482 julia.luzardo@homesteadfoodcompany.com	4/9/2023	4797 Vendor Collaboration - label file check in	Closed		Julia Luzardo		4797	Vendor Collaboration
9	1481 julia.luzardo@homesteadfoodcompany.com	4/9/2023	DEVOPS rollback 1357	Closed		Julia Luzardo		3623	RegionCoverageSettingsV2 Entity Issues
10	1422 garben.jacob@reserainnovation.com	10/17/2022	3636 Dyanway Upgrade	New				3636	Dyanway 2207 upgrade
11	1428 garben.jacob@reserainnovation.com	10/10/2022	3636 Delete from Dev branch again	New				3636	Dyanway 2207 upgrade
12	1427 garben.jacob@reserainnovation.com	10/10/2022	3636 V3 Dyanway	New				3636	Dyanway 2207 upgrade
13	1426 garben.jacob@reserainnovation.com	10/7/2022	3636 Remove Dyanway objects - redux	New				3636	Dyanway 2207 upgrade
14	1422 jmeyers@homesteadfoodcompany.com	10/6/2022	3636 Remove all Dyanway branches	New				3636	Dyanway 2207 upgrade
15	1357 julia.luzardo@homesteadfoodcompany.com	4/2/2022	3623 RegionCoverageSettingsV2 Entity Issues	Closed		Julia Luzardo		3623	RegionCoverageSettingsV2 Entity Issues
16	1356 julia.luzardo@homesteadfoodcompany.com	3/9/2022	3622 Create fields on invent transfer entities	Closed		Julia Luzardo		3622	Create fields on invent transfer entities
17	1354 julia.luzardo@homesteadfoodcompany.com	10/12/2021	3612 Pending and active item prices V2 entity issues	Closed		Julia Luzardo		3612	Pending and active item prices V2 entity issues
18	1251 julia.luzardo@homesteadfoodcompany.com	6/2/2021	3618 Item/Vendor/Customer Master Data Validation - Changed group key length	Closed		Julia Luzardo		3618	Item/Vendor/Customer Master Data Validation
19	1249 julia.luzardo@homesteadfoodcompany.com	6/2/2021	3618 Item/Vendor/Customer Master Data Validation - Entity name correction	Closed		Julia Luzardo		3618	Item/Vendor/Customer Master Data Validation
20	1248 julia.luzardo@homesteadfoodcompany.com	6/2/2021	3618 Item/Vendor/Customer Master Data Validation - Query promise	Closed		Julia Luzardo		3618	Item/Vendor/Customer Master Data Validation
21	1247 julia.luzardo@homesteadfoodcompany.com	6/2/2021	3618 Item/Vendor/Customer Master Data Validation - Added query promise screen partial	Closed		Julia Luzardo		3618	Item/Vendor/Customer Master Data Validation
22	1245 jmeyers@homesteadfoodcompany.com	6/2/2021	3618 Item/Vendor/Customer Master Data Validation - query grid changes	Closed		Julia Luzardo		3618	Item/Vendor/Customer Master Data Validation
23	1241 julia.luzardo@homesteadfoodcompany.com	6/2/2021	3618 Item/Vendor/Customer Master Data Validation - final	Closed		Julia Luzardo		3618	Item/Vendor/Customer Master Data Validation
24	1238 julia.luzardo@homesteadfoodcompany.com	5/26/2021	3618 Item/Vendor/Customer Master Data Validation - Partial 2	Closed		Julia Luzardo		3618	Item/Vendor/Customer Master Data Validation
25	1217 julia.luzardo@homesteadfoodcompany.com	5/23/2021	3618 Item/Vendor/Customer Master Data Validation - Partial 1	Closed		Julia Luzardo		3618	Item/Vendor/Customer Master Data Validation
26	1174 jmeyers@homesteadfoodcompany.com	6/2/2021	3172 Excessive error handling, New version.	Deploy to TEST		Janice Meyers		3172	Excessive error handling
27	1151 jmeyers@homesteadfoodcompany.com	4/15/2021	3131 Promotions import optimization, Phase 1	Closed		Janice Meyers		3131	Excessive promotions import optimization
28	860 alex.merachino@outlook.com	6/3/2020	new 86832 fix work order status	Closed					
29	862 gabriela.dominguez.com@outlook.com	1/27/2020	AM - Removal of MRD folder from Dev 1/26/20						
30	628 Jordan.Pflaff304@outlook.com	11/27/2019	JPP 11/27/19 Normal Entity Check for Michael (RegTrans and SHMItemEventTrans based)						
31	612 Jordan.Pflaff304@outlook.com	11/25/2019	JPP 11/25/19 Object check for aggregate run, SHMItemEventTransTabledbyMFC						
32	610 Jordan.Pflaff304@outlook.com	11/25/2019	JPP 11/25/19 Object changeproc/check for previous InvenItemPurchase entity						
33	603 Jordan.Pflaff304@outlook.com	11/22/2019	JPP 11/22/19 Custom BI entities for David in MFC and Michael internally						

DEV history DEV to TEST Merge Candidates TEST history TEST to PROD Merge Candidates PROD history

READY

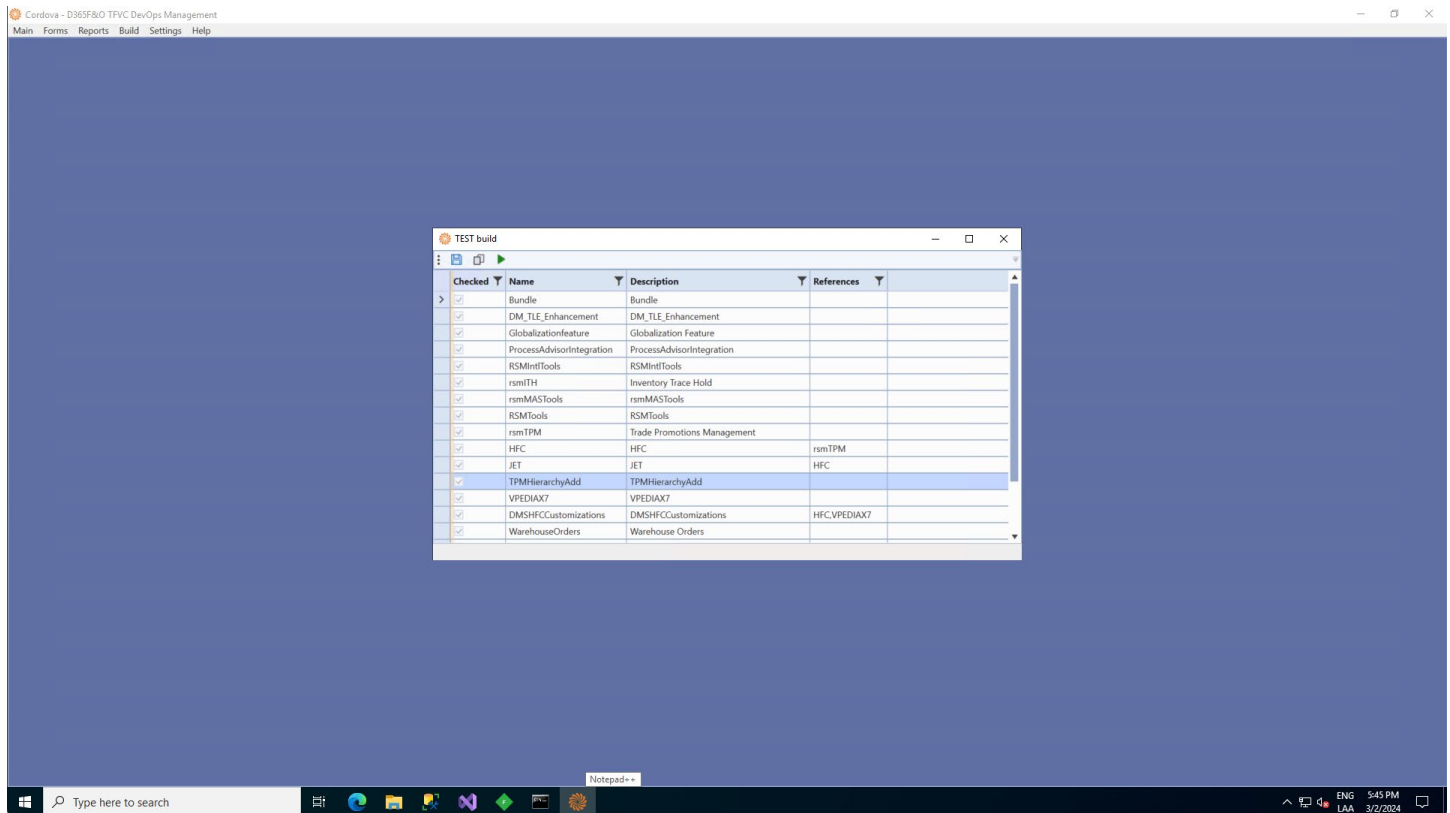
664_x86_Cross_Tools_Command_Prompt_for_VS_2019

Type here to search

ENG 5:45 PM
LAA 3/2/2024

Build

The build screens allow you to do a compilation of several repositories without having to remap settings in team explorer and without the need for several one box environments.



Toolbar buttons:



Save build script to file.



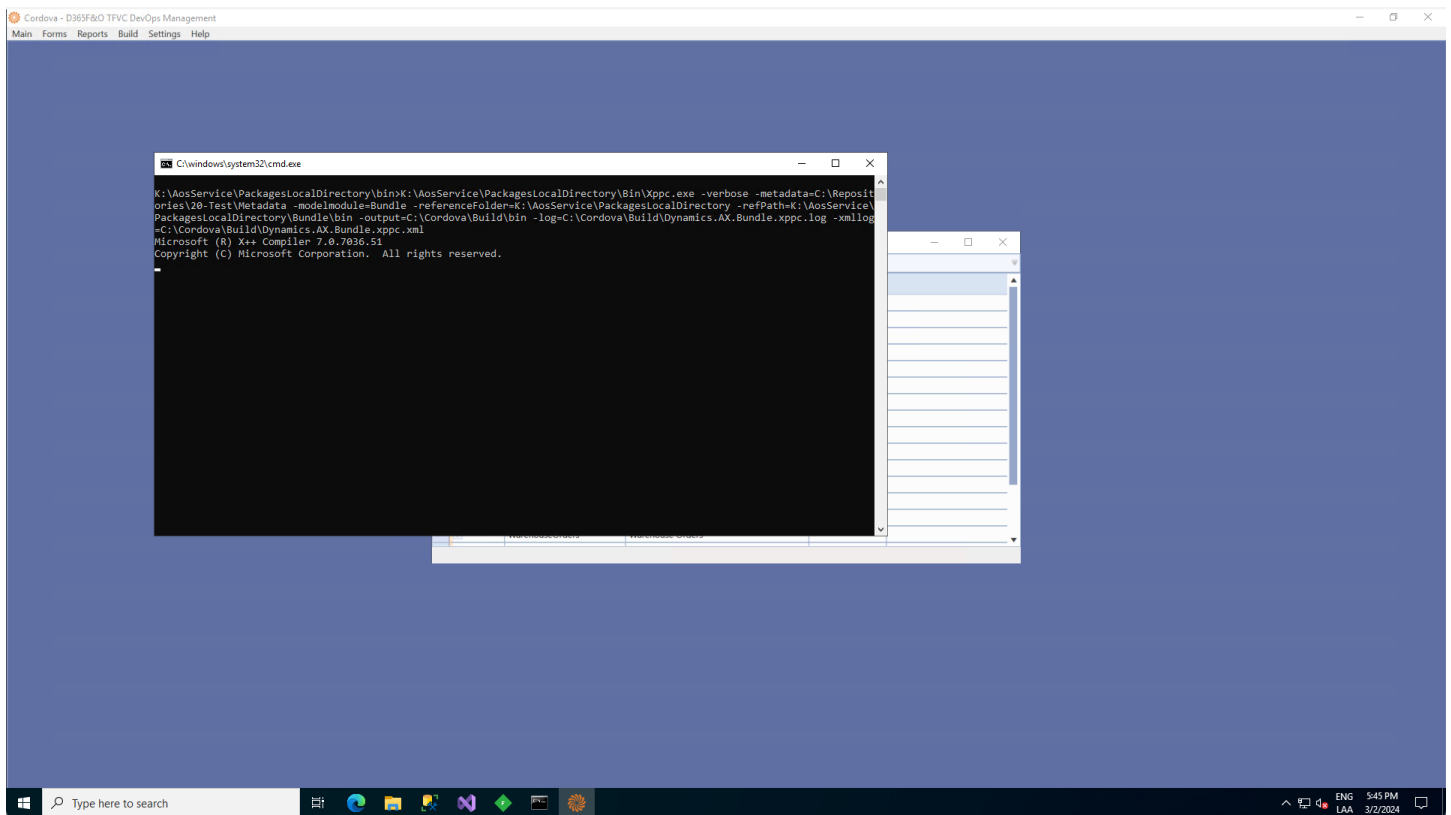
Copy build script to the clipboard.



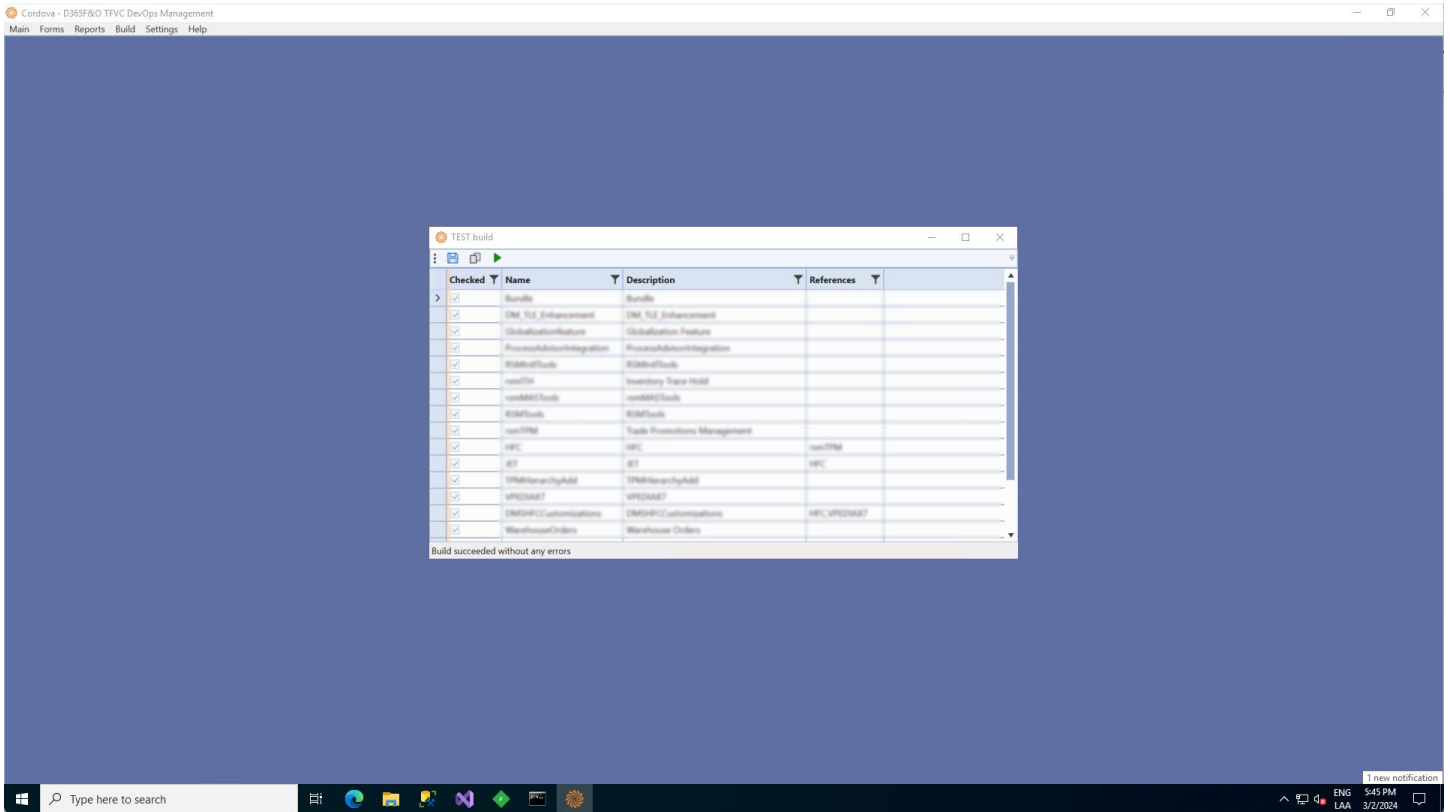
Batch merge/check in.

Cordova TFVC Management System

Once you begin a build, Cordova will automatically calculate the customized models and will start compiling them.

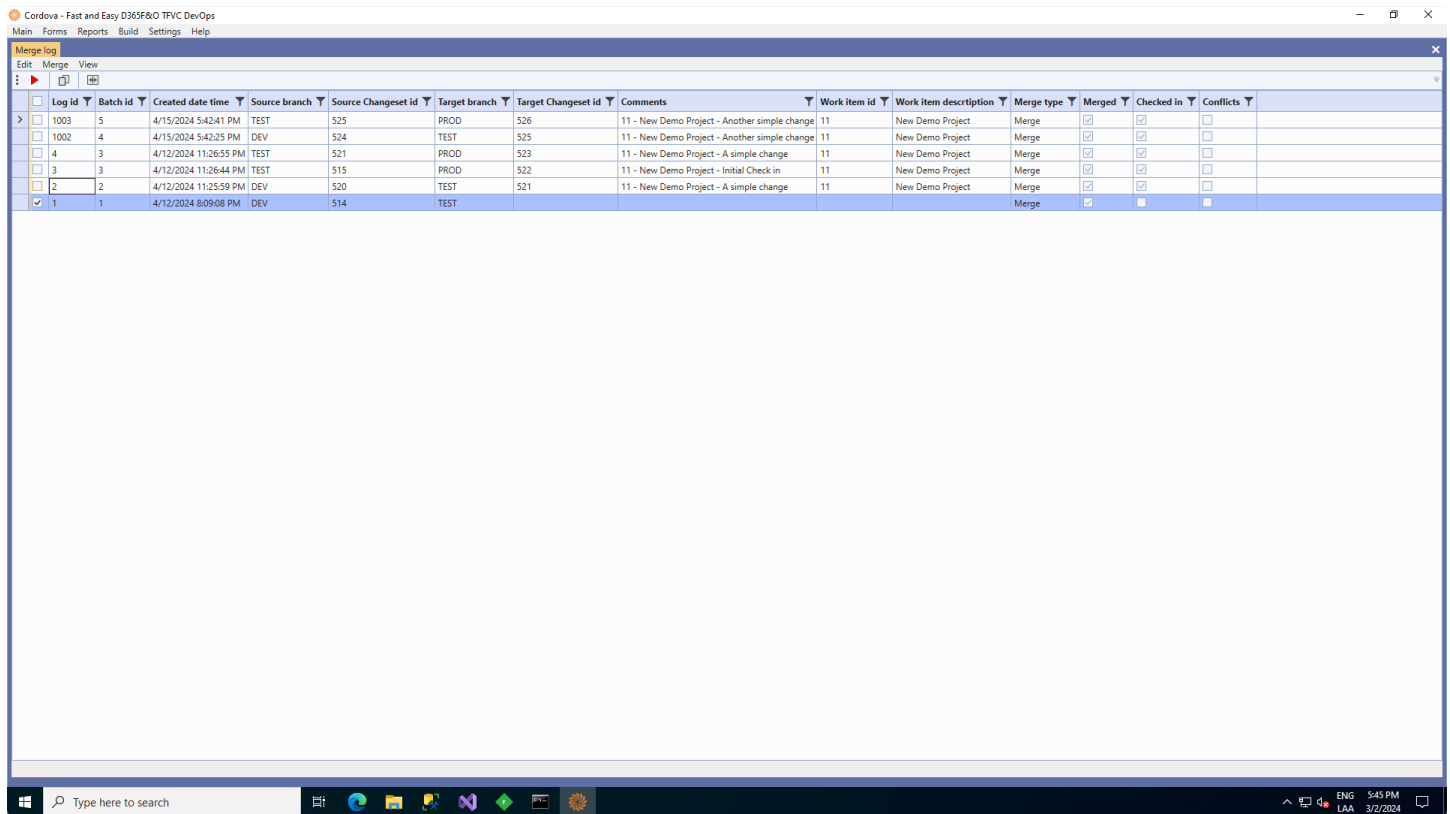


Once the build is finished, it will display the list of errors or a build successful notification.






Merge log

The merge log keeps a record of all operations in Cordova.



Log id	Batch id	Created date time	Source branch	Source Changeset id	Target branch	Target Changeset id	Comments	Work item id	Work item description	Merge type	Merged	Checked in	Conflicts
1003	5	4/15/2024 5:42:41 PM	TEST	525	PROD	526	11 - New Demo Project - Another simple change	11	New Demo Project	Merge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1002	4	4/15/2024 5:42:25 PM	DEV	524	TEST	525	11 - New Demo Project - Another simple change	11	New Demo Project	Merge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	3	4/12/2024 11:26:55 PM	TEST	521	PROD	523	11 - New Demo Project - A simple change	11	New Demo Project	Merge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	3	4/12/2024 11:26:44 PM	TEST	515	PROD	522	11 - New Demo Project - Initial Check in	11	New Demo Project	Merge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	2	4/12/2024 11:25:59 PM	DEV	520	TEST	521	11 - New Demo Project - A simple change	11	New Demo Project	Merge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1	1	4/12/2024 8:09:08 PM	DEV	514	TEST					Merge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Toolbar buttons:

-  Force merge.
-  Copy as table.
-  Open conflicts form

Grid columns

Log id: A consecutive number that uniquely identifies the merge operation.

Batch id: All merge operations that have the same batch id, occurred during the same batch process (rollback, merge/check in, force merge).

Created date time: date and time of the merge operation.



Source branch: The source branch descriptor.

Source changeset id: the source changeset id.

Target branch: The target branch descriptor.

Target changeset id: The target changeset id.

Comments: The changeset comments.

Work item id: The associated work item id in Azure DevOps.

Work item description: The work item description.

Merge type: The type of merge, Rollback, Merge, Force Merge, Discard.

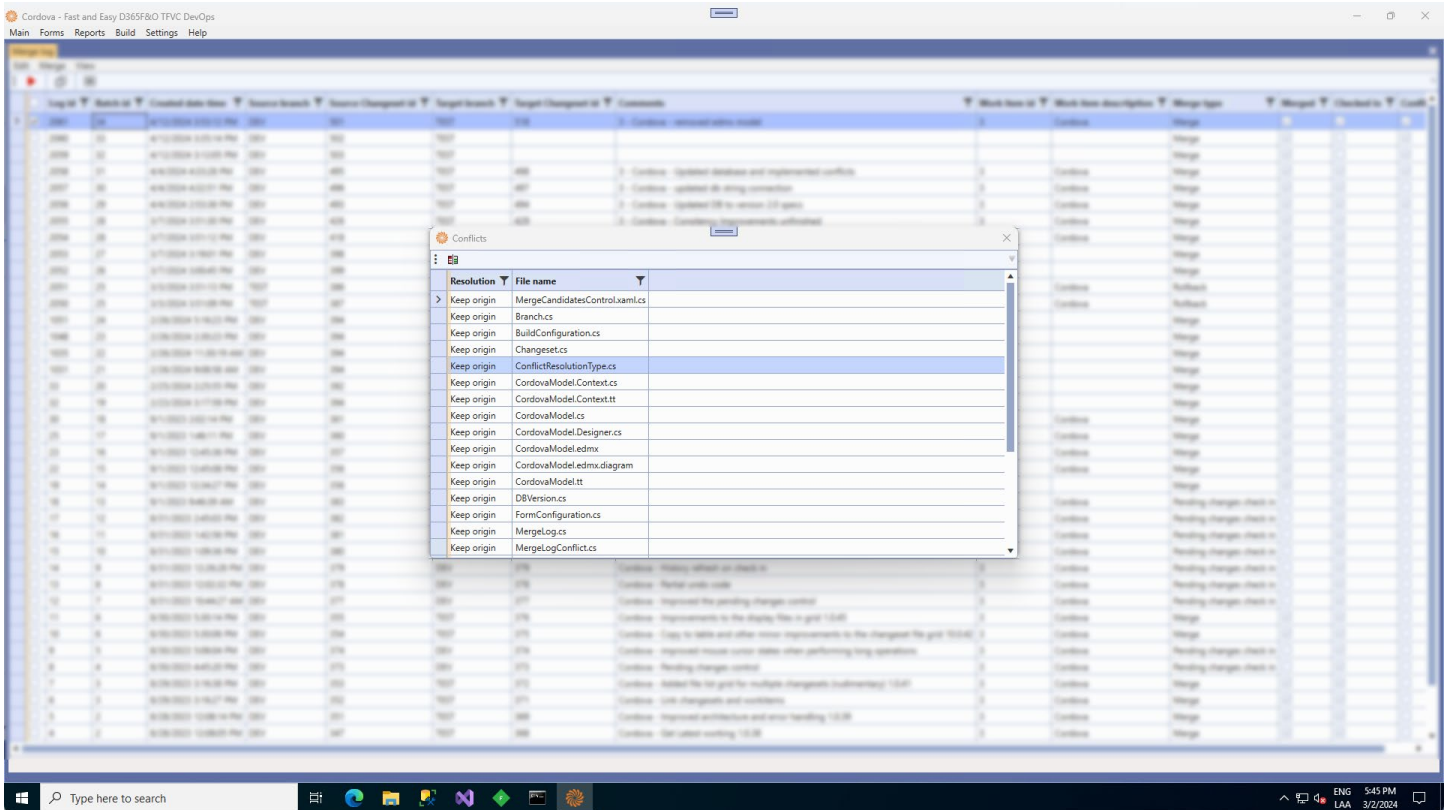
Merged: If the merge has taken place.

Checked in: If changes have been checked in.

Conflicts: If the operation had conflicts.

Conflicts

The conflicts form details all the conflicts that occurred in an operation.



Toolbar buttons:



View file differences.

Grid columns

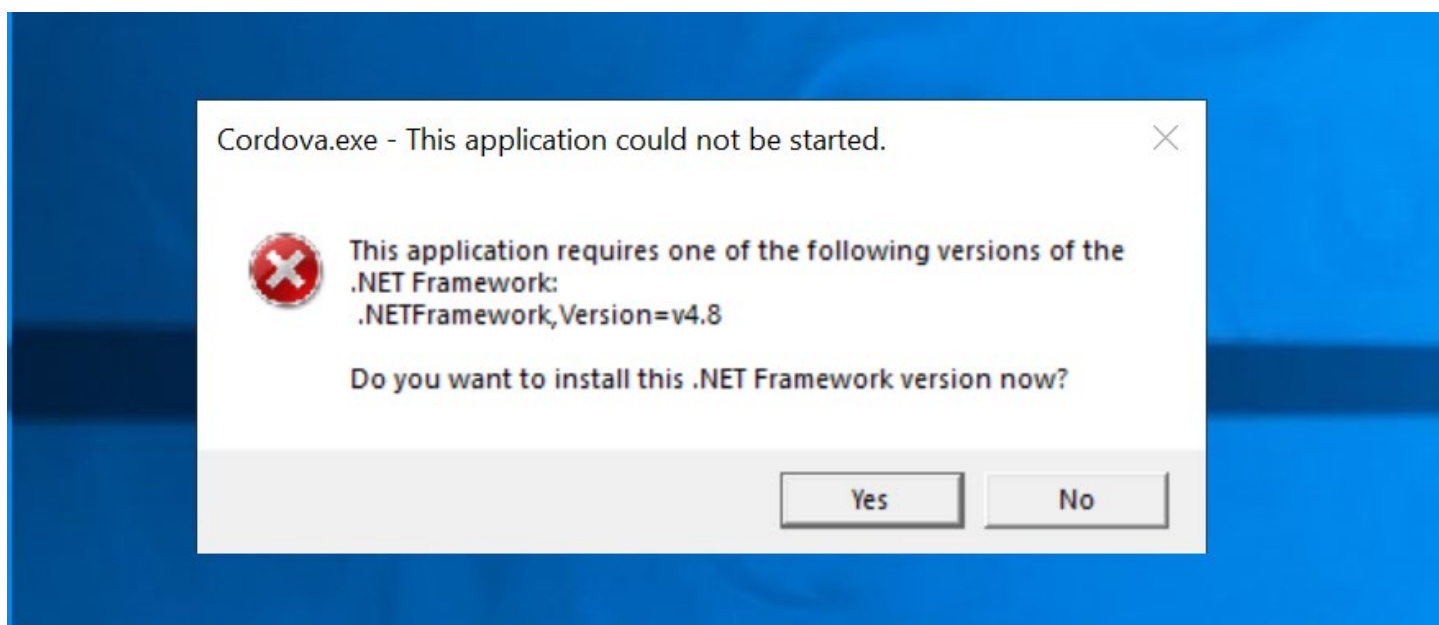
Resolution: The type of resolution that was applied to the conflict.

File name: The name of the conflicting file.

Troubleshooting

Problem: Cordova will not start because the .NET framework runtime for 4.8 is not installed

This is a common problem in older VMs. The Cordova app will not start and will display a message box.



Solution:

1. Go to windows update and click on the "check for updates" button. Make sure all updates have been applied.
2. If the above does not fix the issue, it might be a TLS problem. Run this PowerShell script:

```
New-Item 'HKLM:\SOFTWARE\WOW6432Node\Microsoft\.NETFramework\v4.0.30319' -Force | Out-Null
New-ItemProperty -path 'HKLM:\SOFTWARE\WOW6432Node\Microsoft\.NETFramework\v4.0.30319' -name
'SystemDefaultTlsVersions' -value '1' -PropertyType 'DWord' -Force | Out-Null
New-ItemProperty -path 'HKLM:\SOFTWARE\WOW6432Node\Microsoft\.NETFramework\v4.0.30319' -name
'SchUseStrongCrypto' -value '1' -PropertyType 'DWord' -Force | Out-Null
New-Item 'HKLM:\SOFTWARE\Microsoft\.NETFramework\v4.0.30319' -Force | Out-Null
New-ItemProperty -path 'HKLM:\SOFTWARE\Microsoft\.NETFramework\v4.0.30319' -name 'SystemDefaultTlsVersions' -value '1'
-PropertyType 'DWord' -Force | Out-Null
```



Cordova TFVC Management System

```
New-ItemProperty -path 'HKLM:\SOFTWARE\Microsoft\.NETFramework\v4.0.30319' -name 'SchUseStrongCrypto' -value '1' -
PropertyType 'DWord' -Force | Out-Null
New-Item 'HKLM:\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.2\Server' -Force | Out-Null
New-ItemProperty -path 'HKLM:\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.2\Server' -
name 'Enabled' -value '1' -PropertyType 'DWord' -Force | Out-Null
New-ItemProperty -path 'HKLM:\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.2\Server' -
name 'DisabledByDefault' -value 0 -PropertyType 'DWord' -Force | Out-Null
New-Item 'HKLM:\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.2\Client' -Force | Out-Null
New-ItemProperty -path 'HKLM:\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.2\Client' -
name 'Enabled' -value '1' -PropertyType 'DWord' -Force | Out-Null
New-ItemProperty -path 'HKLM:\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.2\Client' -
name 'DisabledByDefault' -value 0 -PropertyType 'DWord' -Force | Out-Null
Write-Host 'TLS 1.2 has been enabled.'
```

You can also download this PowerShell script from:

<https://atlanticoak.blob.core.windows.net/aocdsupport/.NETFramework4.8.ps1>