

# Roadmap

## Planned releases

### Release 0.9.0(Planned)

Target Date:

Code Freeze Date:

Release Manager:

Target Features:

JIRA	Category	Description	Assignee
 SUBMARINE-1306 - Upgrade database support <span>OPEN</span>	Experiment	Upgrade database support (Hibernate, Postgresql ...)	Need assignee

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
SUBMARINE-1415	Upgrad workbench node and angular		Nov 26, 2023	Nov 26, 2023		Unassigned	cdmikechen		<span>OPEN</span>	Unresolved
SUBMARINE-1414	Upgrade java k8s client to 18(k8s-java-client)/6.7 (fabric8)		Nov 11, 2023	Nov 25, 2023		cdmikechen	cdmikechen		<span>RESOLVED</span>	Fixed
SUBMARINE-1413	Add 0.8.0 release to doap file.		Sep 29, 2023	Nov 11, 2023		Unassigned	cdmikechen		<span>RESOLVED</span>	Fixed
SUBMARINE-1412	Add the missing 0.8.0 download page		Sep 24, 2023	Sep 24, 2023		cdmikechen	cdmikechen		<span>RESOLVED</span>	Fixed
SUBMARINE-1411	Create 0.8.0 documents		Sep 23, 2023	Sep 24, 2023		cdmikechen	cdmikechen		<span>RESOLVED</span>	Fixed
SUBMARINE-1410	Update website node to 18		Sep 23, 2023	Nov 12, 2023		cdmikechen	cdmikechen		<span>RESOLVED</span>	Fixed
SUBMARINE-1409	[Umbrella] Upgrade node to 18		Sep 23, 2023	Sep 23, 2023		cdmikechen	cdmikechen		<span>OPEN</span>	Unresolved
SUBMARINE-1408	Fix ubuntu low disk space issue		Sep 17, 2023	Sep 18, 2023		cdmikechen	cdmikechen		<span>RESOLVED</span>	Fixed
SUBMARINE-1407	Add ASF DOAP File		Sep 08, 2023	Sep 23, 2023		cdmikechen	cdmikechen		<span>RESOLVED</span>	Fixed
SUBMARINE-1406	Fix misdescriptions in how-to-release documentation		Sep 03, 2023	Sep 29, 2023		cdmikechen	cdmikechen		<span>RESOLVED</span>	Fixed

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### Release 0.8.1(Planned)

Target Date:

Code Freeze Date:

Release Manager:

Target Features:

JIRA	Category	Description	Assignee
 SUBMARINE-1345 - Support XGBoost <span>OPEN</span>	Experiment	Add XGBoost support.	Need assignee

 <b>SUBMARINE-1385</b> - [Umbrella] Update SDKs and Images to latest versions <span>IN PROGRESS</span>	Python SDK	Update TensorFlow/Pytorch/Milflow/Tensorboard/Conda/Minio versions to the latest and deal with related version dependency issues encountered	Need assignee
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Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
SUBMARINE-1397	Add experiment-prehandler unit test		Jul 29, 2023	Sep 23, 2023		Unassigned	cdmikechen		OPEN	Unresolved
SUBMARINE-1391	Remove Python3.7 and support Tensorflow 2.6-2.10		Jul 08, 2023	Nov 19, 2023		cdmikechen	cdmikechen		RESOLVED	Fixed
SUBMARINE-1387	Update Jupyter and Conda version		Jun 30, 2023	Dec 02, 2023		cdmikechen	cdmikechen		RESOLVED	Fixed
SUBMARINE-1385	[Umbrella] Update SDKs and Images to latest versions		Jun 23, 2023	Nov 19, 2023		cdmikechen	cdmikechen		IN PROGRESS	Unresolved
SUBMARINE-1382	Upgrade go k8s client to 1.25+		May 17, 2023	Nov 26, 2023		cdmikechen	cdmikechen		IN PROGRESS	Unresolved
SUBMARINE-1377	Add SDK XGBoost support		Apr 01, 2023	Jun 21, 2023		Unassigned	cdmikechen		OPEN	Unresolved
SUBMARINE-1376	XGBoost experiment pods will be deleted so that submarine can not get logs		Apr 01, 2023	Jun 10, 2023		cdmikechen	cdmikechen		REOPENED	Unresolved
SUBMARINE-1345	Support XGBoost		Nov 06, 2022	Jun 21, 2023		Unassigned	cdmikechen		OPEN	Unresolved
SUBMARINE-1344	Unified Version Definition [CICD/Shell]		Oct 16, 2022	Jun 21, 2023		Unassigned	cdmikechen		OPEN	Unresolved
SUBMARINE-1328	Unified Version Definition		Sep 20, 2022	Jun 23, 2023		cdmikechen	cdmikechen		OPEN	Unresolved

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## Completed releases (Following releases are all completed)

### Release 0.8.0(Released)

Target Date: 9/23/2023

Code Freeze Date:

Release Manager: cdmikechen

Target Features:

JIRA	Category	Description	Assignee
 <b>SUBMARINE-1162</b> - Submarine UI support i18n <span>RESOLVED</span>	Workbench	Making submarine support i18n is a meaningful work, which can make it more convenient for users using different languages.	cdmikechen

<div> <div>+</div> <div>SUBMARINE-1272 - [Umbrella] Submarine-cloud-v3</div> <div>RESOLVED</div> </div>	Cloud-native Deployment	We want to build a more robust and easy develop operator with operator-sdk (submarine-cloud-v3) and update supported k8s version to latest(1.24/1.25).	cdmikechen
<div> <div>+</div> <div>SUBMARINE-1438 - New SSO function based on OIDC</div> <div>RESOLVED</div> </div>	Security	Use pac4j to support OIDC and other SSO.	cdmikechen
<div> <div>↑</div> <div>SUBMARINE-1320 - Drop supports for Python2.7 and Python3.6</div> <div>RESOLVED</div> </div>	Python SDK	<p><b>Python2.7</b> has reached EOL since January 1, 2020. <b>Python3.6</b> also has reached EOL since Dec 23, 2021. Popular ML/DL packages, such as Tensorflow and Pytorch, have not support Python 3.6. The support for Python3.6 will affect the dependency maintenance in the future.</p> <p>Therefore, we should upgrade syntax for newer versions of Python.</p>	Yao-Ching Huang
<div> <div>↑</div> <div>SUBMARINE-1327 - Upgrade K8s to support the latest 3 releases</div> <div>RESOLVED</div> </div>	Cloud-native Deployment	We are still only up to <b>1.21</b> on the master branch and we need to consider how to support the latest releases of k8s and make the relevant adjustments. Currently planned support for k8s versions: <b>1.22, 1.23, 1.24</b> . And <b>1.25</b> will be supported when it is relatively stable.	cdmikechen

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
SUBMARINE-1408	Fix ubuntu low disk space issue	🔴	Sep 17, 2023	Sep 18, 2023		cdmikechen	cdmikechen	🔴	RESOLVED	Fixed
SUBMARINE-1404	Fix version-related and licence issues	🔴	Aug 27, 2023	Aug 30, 2023		cdmikechen	cdmikechen	🔴	RESOLVED	Fixed
SUBMARINE-1403	Preparing Submarine release 0.8.0-RC0	🟢	Aug 27, 2023	Aug 31, 2023		cdmikechen	cdmikechen	🔴	RESOLVED	Fixed
SUBMARINE-1402	serving does not work with k8s 1.25	🔴	Aug 20, 2023	Aug 24, 2023		cdmikechen	cdmikechen	🔴	RESOLVED	Fixed
SUBMARINE-1401	Refactor docker image workflow to avoid no space issues	🔴	Aug 04, 2023	Aug 12, 2023		Unassigned	cdmikechen	🔴	RESOLVED	Fixed
SUBMARINE-1400	jupyter-gpu image 11.0.3	🟢	Aug 04, 2023	Aug 04, 2023		cdmikechen	cdmikechen	🔴	RESOLVED	Fixed
SUBMARINE-1398	jupyter-gpu mismatch between cuda version and image's runtime	🔴	Aug 02, 2023	Sep 23, 2023		Unassigned	cdmikechen	🔴	RESOLVED	Abandoned
SUBMARINE-1396	Split experiment-prehandler test into separate action	🟢	Jul 29, 2023	Jul 31, 2023		cdmikechen	cdmikechen	🔴	RESOLVED	Fixed
SUBMARINE-1395	Remove unauthenticated login	🟢	Jul 23, 2023	Aug 17, 2023		cdmikechen	cdmikechen	🔴	RESOLVED	Fixed
SUBMARINE-1392	Modify the description of creating a jira account in the documentation	🟢	Jul 14, 2023	Jul 29, 2023		cdmikechen	cdmikechen	🔴	RESOLVED	Fixed

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## Release 0.7.0(Released)

Target Date: 4/25/2022

Code Freeze Date:

Release Manager: Kevin Su

Target Features:

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
<a href="#">SUBMARINE-1265</a>	Release 0.7.0 document	📈	Apr 29, 2022	May 30, 2023		KUAN-HSUN-LI	KUAN-HSUN-LI	🔴	RESOLVED	Fixed
<a href="#">SUBMARINE-1258</a>	Fix go format	🔴	Apr 16, 2022	Apr 17, 2022		KUAN-HSUN-LI	KUAN-HSUN-LI	🔴	RESOLVED	Fixed
<a href="#">SUBMARINE-1256</a>	Organize website document	✅	Apr 14, 2022	Apr 15, 2022		Jhan-Shuo Liu	Jhan-Shuo Liu	🔴	RESOLVED	Fixed
<a href="#">SUBMARINE-1252</a>	Make the figure and hint that search submarine channel in ASF more clear	📈	Apr 07, 2022	Apr 08, 2022		Chen Yu Teng	Chen Yu Teng	🔵	RESOLVED	Fixed
<a href="#">SUBMARINE-1251</a>	Fix experiment patch error and modify the error handling	🔴	Apr 04, 2022	Apr 05, 2022		KUAN-HSUN-LI	KUAN-HSUN-LI	🔴	RESOLVED	Fixed
<a href="#">SUBMARINE-1233</a>	Notebook auto-reload	🔴	Mar 23, 2022	Mar 23, 2022		Jhan-Shuo Liu	Jhan-Shuo Liu	🔴	RESOLVED	Fixed
<a href="#">SUBMARINE-1229</a>	Minio initContainer pod (mlflow and server) not working properly in openshift	🔴	Mar 20, 2022	Apr 05, 2022		cdmikechen	cdmikechen	🔴	RESOLVED	Fixed
<a href="#">SUBMARINE-1227</a>	The conflict of some resource names will shut down the operator	🔴	Mar 20, 2022	Mar 29, 2022		cdmikechen	cdmikechen	🔴	RESOLVED	Fixed
<a href="#">SUBMARINE-1218</a>	Experiment Agent is not deleted when deleting a related experiment	🔴	Mar 14, 2022	Mar 18, 2022		Yu-Tang Lin	KUAN-HSUN-LI	🔴	RESOLVED	Fixed
<a href="#">SUBMARINE-1217</a>	Image name for defined experiment	✅	Mar 14, 2022	Mar 14, 2022		Jhan-Shuo Liu	Jhan-Shuo Liu	🔴	RESOLVED	Fixed

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## Release 0.6.0(Released)

Target Date: 10/21/2021

Code Freeze Date:

Release Manager: Kevin Su

Target Features:

JIRA	Category	Description	Assignee
🔴 <a href="#">SUBMARINE-1024</a> - Failed to build jupyter image <span>RESOLVED</span>	Experiment Template	Fix the error when building the jupyter image	Kevin Su

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	Priority	Status	Resolution
<a href="#">SUBMARINE-1024</a>	Failed to build jupyter image	🔴	Sep 13, 2021	Sep 14, 2021		Kevin Su	Kevin Su		RESOLVED	Fixed

SUBMA RINE-1003	Deploy website only when updating the file in website directory	↑	Aug 30, 2021	Aug 31, 2021	Kevin Su	Kevin Su	RESOLVED	Fixed
SUBMA RINE-994	Fix broken link in README	↑	Aug 26, 2021	Aug 26, 2021	Kevin Su	Kevin Su	RESOLVED	Fixed
SUBMA RINE-981	Update com.google.guava:guava version	↑	Aug 15, 2021	Sep 01, 2021	Lisa Chang	Kevin Su	RESOLVED	Fixed
SUBMA RINE-980	Upload code coverage to SonarCloud	↑	Aug 15, 2021	Sep 13, 2021	Lisa Chang	Kevin Su	RESOLVED	Fixed
SUBMA RINE-977	Fix sonarcloud workflow run error	●	Aug 14, 2021	Aug 15, 2021	Kevin Su	Kevin Su	RESOLVED	Fixed
SUBMA RINE-974	How to contributed submarine step 8 is outdated	↑	Aug 12, 2021	Aug 13, 2021	KUAN-HSUN-LI	KUAN-HSUN-LI	RESOLVED	Fixed
SUBMA RINE-963	Add SonarCloud config in GA	↑	Aug 04, 2021	Aug 14, 2021	Kevin Su	Kevin Su	RESOLVED	Fixed
SUBMA RINE-962	Delete temporary build artifacts before caching	●	Aug 04, 2021	Aug 06, 2021	Kevin Su	Kevin Su	RESOLVED	Fixed
SUBMA RINE-957	Extract helm dependencies from submarine operator	↑	Aug 01, 2021	Aug 09, 2021	Chi-Sheng Liu	Chi-Sheng Liu	RESOLVED	Fixed

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## Release 0.5.0(Released)

Target Date: 12/24/2020

Code Freeze Date:

Release Manager: Kevin Su

Target Features:

JIRA	Category	Description	Assignee
 <b>SUBMARINE-569</b> - [API] Define Swagger API for pre-defined template registration/delete, etc. <span>RESOLVED</span>	Predefined Experiment	Predefined Template: <ul style="list-style-type: none"> <li>[API] Define Experiment API for pre-defined template</li> <li>[SDK] Add Python SDK to support pre-defined experiment</li> <li>[Sever] Support submit pre-defined template, and translate it to an actual job</li> </ul>	John Ting
 <b>SUBMARINE-569</b> - [Umbrella] Submarine Experiment UI <span>RESOLVED</span>	Experiment UI	<ul style="list-style-type: none"> <li>[UI]: Allow Run Adhoc Python/TF/PyTorch Experiment via UI</li> <li>[UI] Allow Run pre-defined experiment</li> </ul>	Various
 <b>SUBMARINE-570</b> - Support run experiment/notebook with synced code <span>RESOLVED</span>	Common	Support run experiment/notebook with defined code sync (like Git repo)	Need assignee
 <b>SUBMARINE-571</b> - [Umbrella] Environment management UI <span>RESOLVED</span>	Environment UI	UI for environment management (add/remove/update)	Need assignee

<div> <div>+</div> <div>SUBMARINE-507 - [Umbrella] Submarine Environment Management</div> <div>RESOLVED</div> </div>	Environment	<ul style="list-style-type: none"> <li>[API] Define swagger API for environment management (add/remove/update/list)</li> <li>[Server] Support get an environment definition, and generate experiment/notebook submission spec</li> <li>[Dockerfile] Prepare sample Dockerfile for Environment</li> </ul>	Mani
<div> <div>+</div> <div>SUBMARINE-477 - [Umbrella] Support Jupyter notebook</div> <div>RESOLVED</div> </div>	Notebook	<ul style="list-style-type: none"> <li>[API] Define Swagger API for notebook management (Launch/Delete/Get)</li> <li>[Server] Implement logic to submit Jupyter notebook to K8s (with Environment/code sync)</li> </ul>	Ryan Lo

T	Key	Summary	P	Status	Created	Updated	Assignee	Reporter
	SUBMARIN E-748	Update Contributing guide		RESOLVED	Feb 21, 2021	Mar 10, 2021	Kai-Hsun Chen	Kai-Hsun Chen
	SUBMARIN E-688	Improve the document "helm.md"		RESOLVED	Nov 29, 2020	Dec 01, 2020	Ryan Lo	Ryan Lo
<div>+</div>	SUBMARIN E-679	submarine spark-security plugin needs to support spark3.0		RESOLVED	Nov 20, 2020	Dec 08, 2020	Atovk Houg	Atovk Houg
	SUBMARIN E-674	Delete the unused environment "my-submarine-env" in DB		RESOLVED	Nov 07, 2020	Nov 26, 2020	Charles Huang	Ryan Lo
	SUBMARIN E-673	ERROR : Cannot read property 'environment' of null		RESOLVED	Nov 07, 2020	Nov 19, 2020	Wen-Chien, Juan	Ryan Lo
	SUBMARIN E-672	Remove unused dependencies from pom.xml		RESOLVED	Nov 03, 2020	Nov 07, 2020	Kevin Su	Kevin Su
	SUBMARIN E-671	correct the typo (parseNotebookResponseObject)		RESOLVED	Nov 03, 2020	Nov 07, 2020	Ryan Lo	Ryan Lo
	SUBMARIN E-669	notebook name contain only lowercase alphanumeric characters or '-'		RESOLVED	Nov 02, 2020	Nov 26, 2020	Charles Huang	Ryan Lo
	SUBMARIN E-660	Remove submarine-workbench/workbench-web /node/node		RESOLVED	Oct 13, 2020	Oct 13, 2020	Kevin Su	Kevin Su
	SUBMARIN E-655	Add a deepfm example in Jupyter notebook		RESOLVED	Oct 05, 2020	Oct 09, 2020	Kevin Su	Kevin Su

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## Release 0.4.0

Target Date: 30/06/2020

Code Freeze Date: 25/06/2020

Release Manager: Wanqiang Ji

Target Features

JIRA	Feature Description	Design Doc	Status
<div> <div>+</div> <div>SUBMARINE-499 - Refactor job API to experiment API</div> <div>RESOLVED</div> </div>	Submarine Experiment		Done
<div> <div></div> <div>SUBMARINE-462 - Submarine server should support helm charts installation</div> <div>RESOLVED</div> </div>	Submarine Helm Charts		Done
<div> <div>+</div> <div>SUBMARINE-376 - [Umbrella] Submarine python client API</div> <div>RESOLVED</div> </div>	PySubmarine		Done

<div> <div>+</div> <div>SUBMARINE-224 - [Umbrella] Submarine Server</div> <div>RESOLVED</div> </div>	Submarine Server	<a href="https://docs.google.com/document/d/1vCjt2z3DoagfeaVQV0nfyWqSYLYmoP53rDcPcz-YcSc/edit">https://docs.google.com/document/d/1vCjt2z3DoagfeaVQV0nfyWqSYLYmoP53rDcPcz-YcSc/edit</a>	Done
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T	Key	Summary	P	Status	Created	Updated	Assignee	Reporter
	SUBMARINE-621	Fix the typo in run_deepfm.py		RESOLVED	Sep 10, 2020	Sep 10, 2020	Lisa Chang	Lisa Chang
	SUBMARINE-549	Fix the typo in Submarine		RESOLVED	Jun 27, 2020	Jun 30, 2020	Chun-Hao Yang	Chun-Hao Yang
	SUBMARINE-547	Incorrect path in deepfm example doc		RESOLVED	Jun 25, 2020	Jun 25, 2020	Ryan Lo	Ryan Lo
	SUBMARINE-546	Update Submarine Website for 0.4.0 release		RESOLVED	Jun 25, 2020	Jun 26, 2020	Wanqiang Ji	Wangda Tan
	SUBMARINE-544	Email address incorrect in pysubmarine sdk		RESOLVED	Jun 24, 2020	Jun 29, 2020	Chun-Hao Yang	Chun-Hao Yang
	SUBMARINE-543	Issues of Submarine KIND version		RESOLVED	Jun 22, 2020	Jun 25, 2020	Wanqiang Ji	Wangda Tan
	SUBMARINE-542	[SDK] get_log error when experiment is not started		RESOLVED	Jun 22, 2020	Jun 25, 2020	Kevin Su	Kevin Su
	SUBMARINE-540	Link broken in pysubmarine		RESOLVED	Jun 21, 2020	Jun 24, 2020	Ryan Lo	Kevin Su
	SUBMARINE-539	Email address incorrect in Bootstrap.java		RESOLVED	Jun 21, 2020	Jun 24, 2020	Wen-Chien, Juan	Kevin Su
	SUBMARINE-535	Update experiment service in workbench		RESOLVED	Jun 20, 2020	Jun 23, 2020	Kevin Su	Kevin Su

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## Release 0.3.0 (Released)

Release date: 02/01/2020

Release Manager: Zhankun Tang

Target Features

JIRA	Feature Description	Status
<div> <div>+</div> <div>SUBMARINE-164 - [Umbrella] Mini-submarine</div> <div>RESOLVED</div> </div>	Mini-Submarine	Done
<div> <div>+</div> <div>SUBMARINE-224 - [Umbrella] Submarine Server</div> <div>RESOLVED</div> </div>	Basic submarine TF job submission to K8s	Done
<div> <div>↑</div> <div>SUBMARINE-303 - Submarine client submit job to submarine server by grpc</div> <div>RESOLVED</div> </div>	Cluster mode job submission on YARN	Done

Pending JIRAs:

Key Summary T Created Updated Due Assignee Reporter P Status Resolution

No issues found

## Legacy issues

# Release 0.6.1

Some issues (like hadoop related issues) are no longer considered for maintenance, so we create a new release to temporarily categorize these issues.

## Target Features

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
SUBMA RINE-834	Ranger support for Spark Datasources	+	May 20, 2021	Jul 02, 2023		Unassigned	Adesh Kumar Rao	⚡	OPEN	Unresolved
SUBMA RINE-769	Submarine-security doesn't support the permission 'update' in the Ranger works	⬇	Mar 16, 2021	Jul 02, 2023		Unassigned	Ji Chen	⚡	OPEN	Unresolved
SUBMA RINE-753	Submarine-security doesn't support 'show tables' filtering	⬇	Feb 23, 2021	Jul 02, 2023		Ji Chen	Ji Chen	⚡	OPEN	Unresolved
SUBMA RINE-705	Unable to run tests in spark-security with spark-3.0 + hadoop-3.2 profiles	⬇	Jan 04, 2021	Jul 02, 2023		Unassigned	Igor Calabria	⚡	OPEN	Unresolved
SUBMA RINE-639	Spark-security ranger plugin - Use configured class for authentication	↑	Sep 27, 2020	Jul 02, 2023		Unassigned	Tenneti Venkata Sri Harsha	⚡	OPEN	Unresolved
SUBMA RINE-408	[Umbrella] Submarine security	+	Mar 07, 2020	Jul 02, 2023		Unassigned	Liu Xun	⚡	OPEN	Unresolved
SUBMA RINE-320	Integrate apache ranger in submarine metastore module	🔗	Dec 14, 2019	Jul 02, 2023		qiwei huang	Liu Xun	⚡	OPEN	Unresolved
SUBMA RINE-34	Can't re-run a submarine job, if the previous job with the same service name has finished	+	Dec 24, 2018	Jul 22, 2023		Zac Zhou	Zac Zhou	⚡	OPEN	Unresolved

8 issues