

EEPod LLC  
MyCANIC-IOT  
Vehicle Network Interface  
And  
EEPod Cloud Server

# History Of MyCANIC Products



The MyCANIC series of products started in 2007 with original (gold keypad) MyCANIC, then was superseded by the MyCANIC-FD in 2018 that added CAN-FD, LIN and Ethernet capabilities with more power/speed. The MyCANIC-IOT is the newest version that adds a very powerful and secure wireless cloud server interface for centralized file sharing and control of a MyCANIC-IOT operating anywhere in the world.

# Overview



- The MyCANIC-IOT is an all-in-one interface for model year 2007 and beyond vehicles and modules.
- The MyCANIC-IOT supports two independent CAN/CAN-FD channels, one ISO9141/LIN channel and Ethernet for access to all modern vehicle modules.
- The MyCANIC-IOT can be used in pass-thru (SAE J2534) mode or standalone for diagnostics, reprogramming (flashing), data logging and custom applications.
- The MyCANIC-IOT offers an unparalleled combination of price / performance.

# Mechanical Features

- Small (5.5" x 3.5" x 1") and lightweight (less than 6 oz. without boot) for easy placement and storage.
- Rubber boot for drop survival (rated 3-foot drop to concrete).
- High-cycle keypad (500,000+ per key).
- Simple user interface (most operations completed with just three keys).
- Backlit 320x240 color LCD screen for use in all lighting situations.
- SD / MMC Card Slot with access cover on rubber boot for protection.
- High durability OBDII cable.
- Canvas embroidered carrying case for travel and storage.
- Extended operating temperature range (-20C to +50C, requires extended temp SD-Card for use below 0C).

# Electronic Features

- 300MHz 32-bit microprocessor.
- Low current consumption (approximately 120mA at 12VDC).
- Two independent CAN/CAN-FD channels with ISO15765 Flow Control support on each channel.
- Full 4-wire Ethernet interface, capable of DoIP.
- One LIN / ISO9141 K-Line channel.
- Electrically protected high-speed USB 2.0 interface to the PC, capable of handling full network bandwidth.
- Programmable voltage output (0-5VDC, +/-10mV) with current limiting protection (30mA).
- Four analog inputs (0-20VDC, +/- 20mV resolution). Two dedicated to vehicle battery and programmable voltage output monitoring.
- High-speed SDHC card slot with support for cards up to 32GB.
- Wireless IoT (Internet of Things) interface to EEPod Cloud Server.

# Software Features

- Full SAE J2534 interface support for all PC-based applications (including PTDiag, PCMSCAN™, ScanXL™, DataPro™, SimuCAN™, Ford WebFlash, J1699-3, etc...).
- Proprietary “read-ahead” algorithm for module reprogramming for the fastest reprogramming and diagnostic service times possible.
- Basic OBDII Diagnostics (read parameters, read DTCs and freeze frame data, clear DTCs, ...) and data logging features on the standard standalone software.
- EEPod mobile device apps for both Android (Google Play Store) and Apple (App Store) devices for extremely simplified connection to your wireless LAN access point.

# Security Features

- Firmware update files and script files are AES-128 encrypted to prevent access to sensitive data and ECU security algorithms.
- The JTAG e-fuse of the MyCANIC-IOT microcontroller is set to disable access to the FLASH memory / firmware.
- The wireless connection to the EEPod IoT cloud server is SSL encrypted to prevent intercept of the transfer of sensitive data / files between the MyCANIC-IOT and server.
- GMT timestamped audit logs of all transactions with the cloud server allows for analysis/prevention of any suspicious activity.

# Pricing and Availability

## **MyCANIC-IOT Kit - \$995.00USD (including):**

- MyCANIC-IOT with rubber boot w/ SD-Card Access
- 16GB SD Card
- OBDII-3 Cable
- USB Cable
- Padded Carrying Case
- One year EEPod cloud server support with free firmware updates
- In-stock and ready for shipment



# EEPod Cloud Server Login

Several EEPod cloud servers are deployed to allow worldwide access with close to 100% uptime. EEPod can setup individual users of a single MyCANIC-IOT up to organizational administrators with hundreds of users and thousands of tools.



EEPOD Login

## Sign In

Username  
myusername

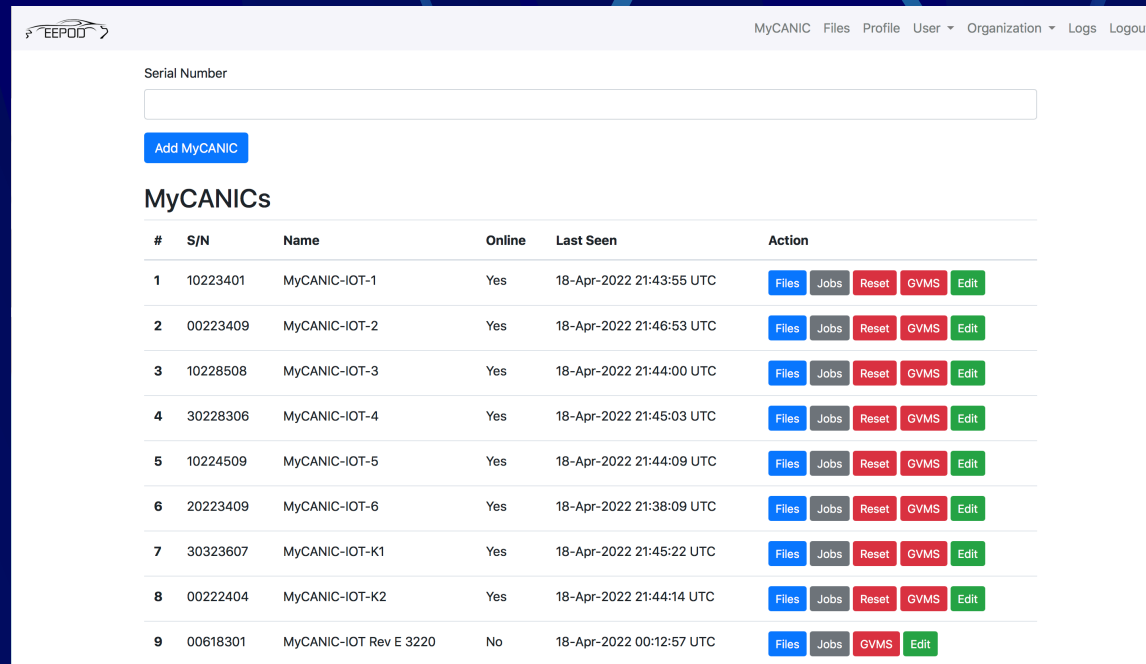
Password  
.....

Remember Me

Sign In

# EEPod Cloud Server MyCANIC Control

The EEPod cloud server MyCANIC screen gives organization administrators and users the ability to add and completely control the MyCANIC-IOT tools assigned to them. They can update files and firmware, upload data/log files from tools and see current jobs running. This can all be done when the MyCANIC-IOT tool is online or offline.



The screenshot displays the EEPod MyCANIC control interface. At the top, there is a navigation bar with the EEPod logo and menu items: MyCANIC, Files, Profile, User, Organization, Logs, and Logout. Below the navigation bar, there is a 'Serial Number' input field and an 'Add MyCANIC' button. The main section is titled 'MyCANICs' and contains a table with the following data:

#	S/N	Name	Online	Last Seen	Action
1	10223401	MyCANIC-IOT-1	Yes	18-Apr-2022 21:43:55 UTC	Files Jobs Reset GVMS Edit
2	00223409	MyCANIC-IOT-2	Yes	18-Apr-2022 21:46:53 UTC	Files Jobs Reset GVMS Edit
3	10228508	MyCANIC-IOT-3	Yes	18-Apr-2022 21:44:00 UTC	Files Jobs Reset GVMS Edit
4	30228306	MyCANIC-IOT-4	Yes	18-Apr-2022 21:45:03 UTC	Files Jobs Reset GVMS Edit
5	10224509	MyCANIC-IOT-5	Yes	18-Apr-2022 21:44:09 UTC	Files Jobs Reset GVMS Edit
6	20223409	MyCANIC-IOT-6	Yes	18-Apr-2022 21:38:09 UTC	Files Jobs Reset GVMS Edit
7	30323607	MyCANIC-IOT-K1	Yes	18-Apr-2022 21:45:22 UTC	Files Jobs Reset GVMS Edit
8	00222404	MyCANIC-IOT-K2	Yes	18-Apr-2022 21:44:14 UTC	Files Jobs Reset GVMS Edit
9	00618301	MyCANIC-IOT Rev E 3220	No	18-Apr-2022 00:12:57 UTC	Files Jobs GVMS Edit

# EEPod Cloud Server Jobs List

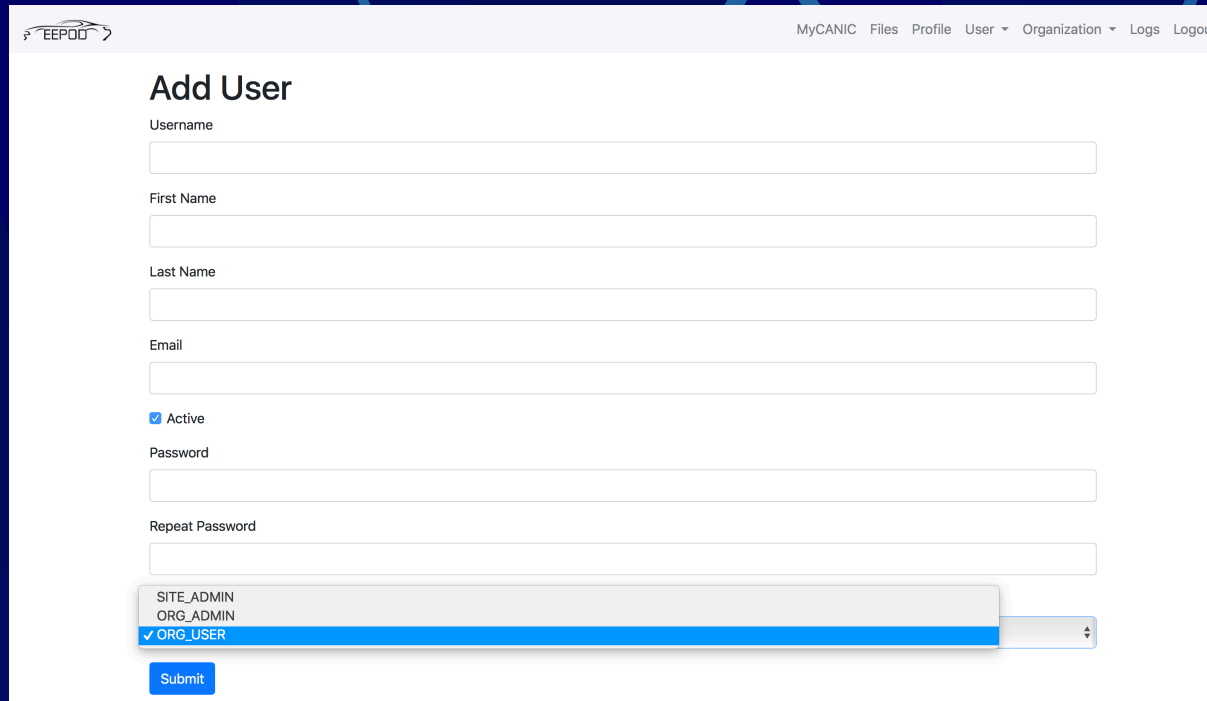
The EEPod cloud server Jobs screen gives administrators and users the ability to see what jobs are running and which have been completed.

#	Active	Success	Attempts	Last Attempt	Job	Action
439	No	Yes	1	18-Apr-2022 15:30:23 UTC	push: IOT.LDR	
433	No	Yes	1	15-Apr-2022 19:45:49 UTC	push: IOT.LDR	
420	No	Yes	1	04-Apr-2022 21:19:15 UTC	push: APP.LDR	
414	No	Yes	1	30-Mar-2022 21:25:28 UTC	push: APP.LDR	
413	No	Yes	1	30-Mar-2022 21:25:35 UTC	push: APP.LDR	
412	No	Yes	1	30-Mar-2022 21:25:22 UTC	push: APP.LDR	
411	No	Yes	1	30-Mar-2022 21:25:15 UTC	push: APP.LDR	
401	No	Yes	1	22-Mar-2022 02:05:20 UTC	push: MyCANIC-IOT_Setupdocx.docx	
400	No	Yes	1	22-Mar-2022 02:01:32 UTC	push: MyCANIC-FD_User_Manual.doc	

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# EEPod Cloud Server User Account

The EEPod cloud servers User Screen allows organization administrators to add/manage user accounts within their organization.



MyCANIC Files Profile User Organization Logs Logout

## Add User

Username

First Name

Last Name

Email

Active

Password

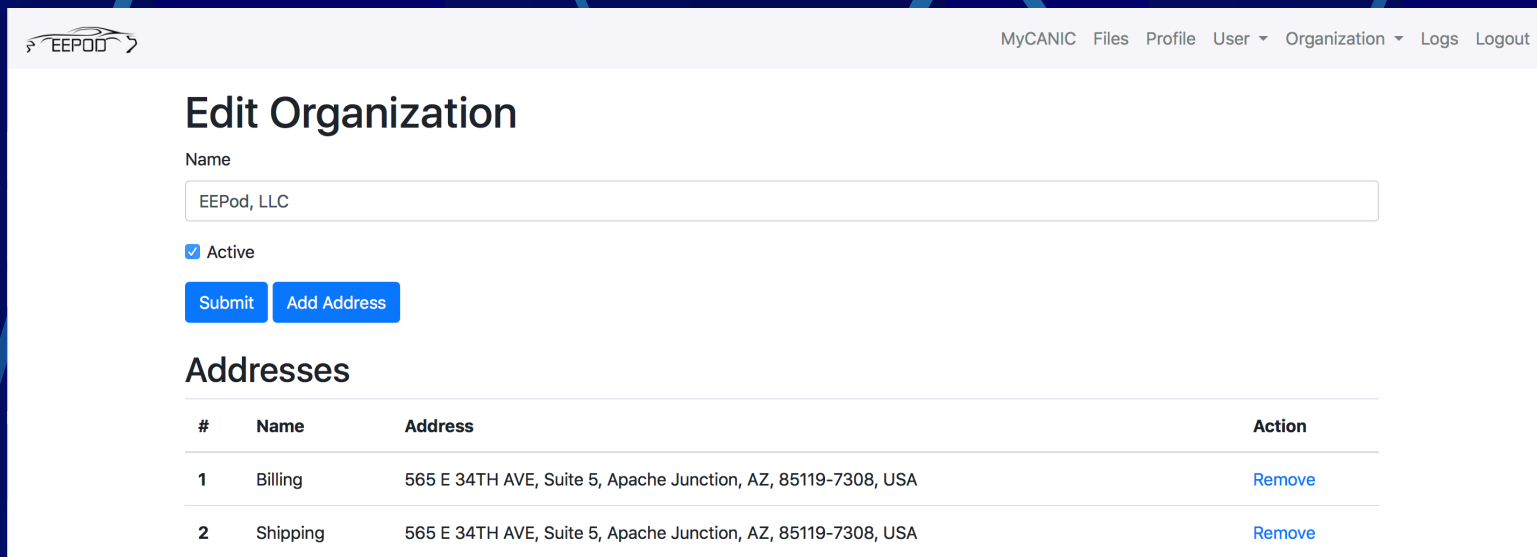
Repeat Password

SITE\_ADMIN  
ORG\_ADMIN  
✓ ORG\_USER

Submit

# EEPod Server Organization

The EEPod cloud server organization screen allows administrators to keep their organization information updated.



The screenshot shows the 'Edit Organization' page in the EEPod web application. At the top left is the EEPod logo. The top right navigation bar includes 'MyCANIC', 'Files', 'Profile', 'User', 'Organization', 'Logs', and 'Logout'. The main heading is 'Edit Organization'. Below it, the 'Name' field contains 'EEPod, LLC'. There is a checked 'Active' checkbox. Two buttons, 'Submit' and 'Add Address', are visible. The 'Addresses' section contains a table with two entries: 'Billing' and 'Shipping', both with the same address: '565 E 34TH AVE, Suite 5, Apache Junction, AZ, 85119-7308, USA'. Each entry has a 'Remove' link.

MyCANIC Files Profile User Organization Logs Logout

## Edit Organization

Name

Active

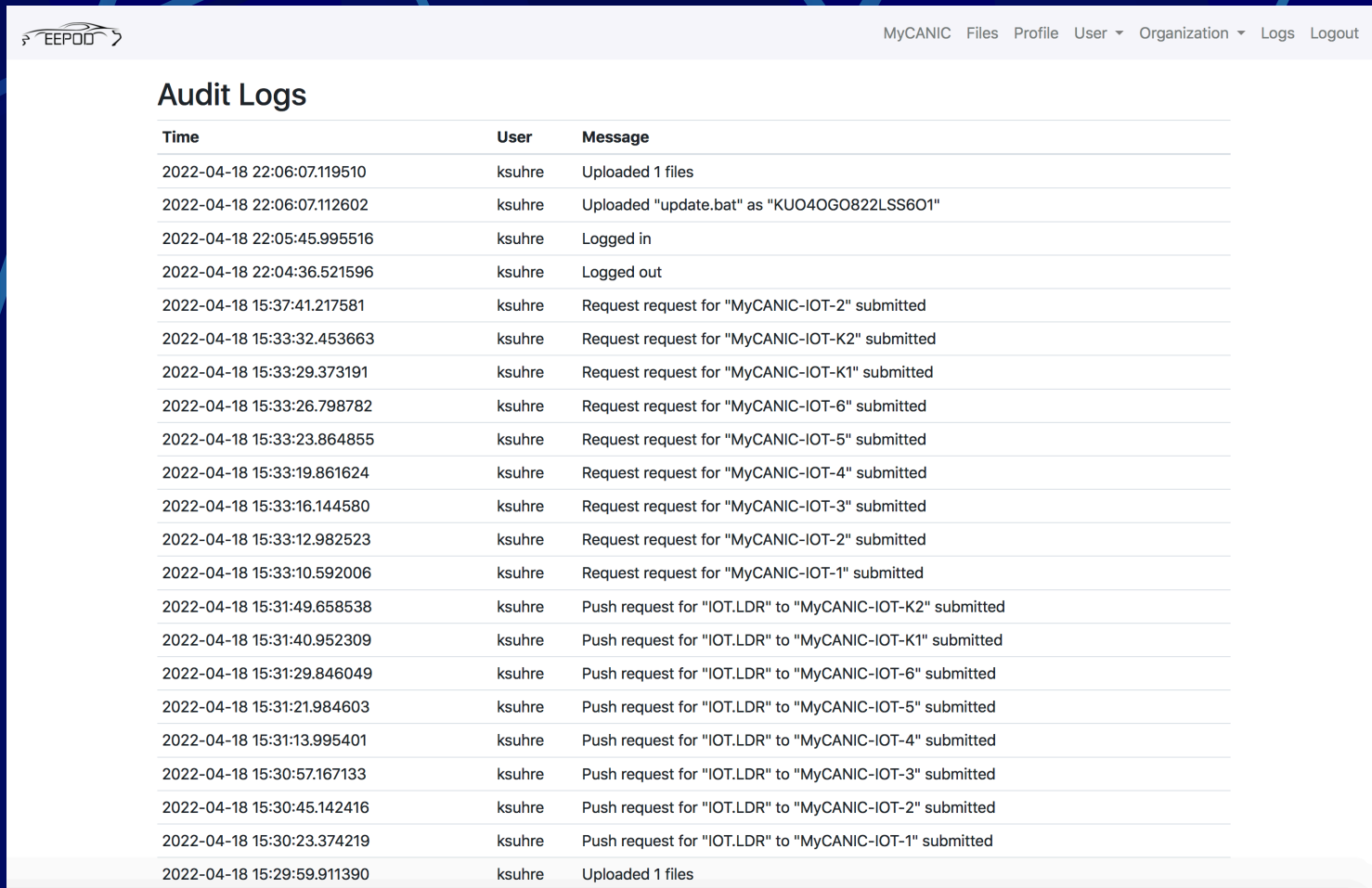
[Submit](#) [Add Address](#)

### Addresses

#	Name	Address	Action
1	Billing	565 E 34TH AVE, Suite 5, Apache Junction, AZ, 85119-7308, USA	<a href="#">Remove</a>
2	Shipping	565 E 34TH AVE, Suite 5, Apache Junction, AZ, 85119-7308, USA	<a href="#">Remove</a>

# EEPod Cloud Server Audit Logs

The EEPod cloud server Logs screen allows administrators to see all communications logs to all MyCANIC-IOT tools under their account.



MyCANIC Files Profile User Organization Logs Logout

## Audit Logs

Time	User	Message
2022-04-18 22:06:07.119510	ksuhre	Uploaded 1 files
2022-04-18 22:06:07.112602	ksuhre	Uploaded "update.bat" as "KJ040G0822LSS601"
2022-04-18 22:05:45.995516	ksuhre	Logged in
2022-04-18 22:04:36.521596	ksuhre	Logged out
2022-04-18 15:37:41.217581	ksuhre	Request request for "MyCANIC-IOT-2" submitted
2022-04-18 15:33:32.453663	ksuhre	Request request for "MyCANIC-IOT-K2" submitted
2022-04-18 15:33:29.373191	ksuhre	Request request for "MyCANIC-IOT-K1" submitted
2022-04-18 15:33:26.798782	ksuhre	Request request for "MyCANIC-IOT-6" submitted
2022-04-18 15:33:23.864855	ksuhre	Request request for "MyCANIC-IOT-5" submitted
2022-04-18 15:33:19.861624	ksuhre	Request request for "MyCANIC-IOT-4" submitted
2022-04-18 15:33:16.144580	ksuhre	Request request for "MyCANIC-IOT-3" submitted
2022-04-18 15:33:12.982523	ksuhre	Request request for "MyCANIC-IOT-2" submitted
2022-04-18 15:33:10.592006	ksuhre	Request request for "MyCANIC-IOT-1" submitted
2022-04-18 15:31:49.658538	ksuhre	Push request for "IOT.LDR" to "MyCANIC-IOT-K2" submitted
2022-04-18 15:31:40.952309	ksuhre	Push request for "IOT.LDR" to "MyCANIC-IOT-K1" submitted
2022-04-18 15:31:29.846049	ksuhre	Push request for "IOT.LDR" to "MyCANIC-IOT-6" submitted
2022-04-18 15:31:21.984603	ksuhre	Push request for "IOT.LDR" to "MyCANIC-IOT-5" submitted
2022-04-18 15:31:13.995401	ksuhre	Push request for "IOT.LDR" to "MyCANIC-IOT-4" submitted
2022-04-18 15:30:57.167133	ksuhre	Push request for "IOT.LDR" to "MyCANIC-IOT-3" submitted
2022-04-18 15:30:45.142416	ksuhre	Push request for "IOT.LDR" to "MyCANIC-IOT-2" submitted
2022-04-18 15:30:23.374219	ksuhre	Push request for "IOT.LDR" to "MyCANIC-IOT-1" submitted
2022-04-18 15:29:59.911390	ksuhre	Uploaded 1 files

# EEPod Cloud Server Communication to other Corporate Servers

The EEPod cloud server has the ability to communicate securely with other corporate servers for updating information and databases (e.g. vehicle as-built databases, ECU software update logs, etc.) by automatically pulling files from specified directories in the MyCANIC-IOT devices and submitting them securely to the receiving server.

MyCANIC Files Profile User Organization Logs Logout

## GVMS Files - MyCANIC-IOT-1 (10223401)

Last updated: 18-Apr-2022 22:58:58 UTC

Name	Size	Date/Time	Action
<a href="#">Refresh</a>			

### GVMS Files

Name	Origin	Pulled	Status	Action
ABS_1FC4E4KN1NDC13817.EAB	Rev E IOT	21-Jan-2022 15:44:10 UTC	N/A	<a href="#">Delete</a> <a href="#">Download</a> <a href="#">Status</a> <a href="#">Submit</a>
ABS_1FD4E4FN4NDC27483.EAB	Rev E IOT	21-Jan-2022 15:44:22 UTC	N/A	<a href="#">Delete</a> <a href="#">Download</a> <a href="#">Status</a> <a href="#">Submit</a>

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